

PRODUCT CATALOGUE

AUGUST 2024



Autonomous residential Centralized residential Service Industry Industrial Process





1922





■ SRIELLO ISOTHERMO



RIELLO



RIELLO BURNERS



—— RELO Energy For Life



2022

RIELLO

RIELLO is an Italian brand, a worldwide leader in the combustion technology and a key player in the production of heating and air conditioning systems and technologies for the residential and commercial sectors.

A WORLDWIDE
LEADER IN THE
COMBUSTION
TECHNOLOGY AND
REFERENCE PLAYER
IN THE HVAC SECTOR



+100

+120

YEARS OF HISTORY AND EXPERIENCE IN THE COMBUSTION TECNOLOGY

SALES COUNTRIES



PROFILE

ENVIRONMENT AND WELL-BEING

INNOVATING FOR A MORE SUSTAINABLE FUTURE

RIELLO EMBRACES THE CONCEPT OF ALL-ROUND WELL-BEING, TRANSLATING IT INTO A BUSINESS MODEL BASED ON SUSTAINABILITY AND INNOVATION AND ON PRODUCTS THAT CONTRIBUTE TO THE ENERGY TRANSITION.



Over a century of energy for life, for people's comfort. Innovation and sustainability are what drive Riello's way of working in the creation of products and state-of-the-art systems.

Riello is aware of the role a brand can and should play in consumer habits. For this very reason, it champions the efficient use of resources in manufacturing.

At its production sites, the company has adopted energy-efficient practices and technologies.

Conscious product design leverages the integration

of different energy sources and the reduction of environmental impact also by focusing on alternative sources, such as hydrogen.

This is complemented by the development of high-efficiency technologies and smart control systems, based on the potential of IoT, which enable consumption reduction through intuitive remote control tailored to customers' needs.

This translates into an economic benefit for the consumer, but more significantly for the ecosystem. For active responsibility must be shared responsibility.

PROFESSIONAL GROWTH AND DEVELOPMENT

TRAINING

TRAINING IS ONE OF RIELLO'S STRENGTHS:
IT HAS ALWAYS BEEN AN ESSENTIAL PART OF ITS
BUSINESS AND A DISTINCTIVE COMPONENT RECOGNISED
BY THE MARKET FOR ITS CONTINUITY AND CONSISTENCY.







Riello has an ongoing training process to transfer its know-how both to consultants and to market operators. It involves technical update meetings and specific training courses (also via webinar) intended to foster the professional growth of the people Riello works with. Professionalism, skills and reliability are made available to the supply chain every single day, to promote a comprehensive knowledge of next generation products and system solutions.

For Riello, training also means being aware

of legislative developments and being able to interpret their evolution in advance. The company's pre-sales and training structure is ready to provide constant support and the best refresher courses to its customers, so they can address a rapidly changing market. The Angiari training centre is a tangible example of the importance of training for Riello. Consisting of classrooms and fully fitted-out labs, it provides theory and hands-on training, using the very latest learning systems.

FAMILY HM AND FAMILY HM CONNECT

THE BEST OF RIELLO TECHNOLOGY, IN AN ICONIC DESIGN

NEW

FAMILY HM AND FAMILY HM CONNECT ARE RIELLO NEW CONDENSING WALL-HUNG BOILES THAT OFFER THE HIGHEST LEVELS OF COMFORT AND EFFICIENCY IN ITS RANGE, IN THE ICONIC ELEGANT DESIGN OF THE PARENT RANGE FAMILY, FEATURING A VERTICAL ORIENTED CONTROL, NOW FULLY TOUCH.

- There are numerous technological innovations compared with the previous FAMILY range, developed in the pursuit of energy saving and respect for the environment, objectives that are increasingly important to Riello in this crucial time of energy transition.
- FAMILY HM and FAMILY HM CONNECT stand out for the wide 1:13 modulation ratio, the new stainless steel heat exchanger with the renewed ACC adaptive combustion control, the silent operation and the excellent comfort in domestic hot water, that place the new boilers at the top of Riello's offerings.
- Very silent operation on all models.
- The FAMILY HM CONNECT models are supplied as standard with the Hi, Comfort T300 advanced control, forming a class A+ system, without adding further options.
- Also the FAMILY HM models, in combination with the Hi, Comfort T100 thermostat or with the advanced T300 control (available as accessories), achieve class A+.
- Ready to operate with blends of natural gas and hydrogen, up to a maximum of 20%.



FOR A SUSTAINABLE FUTURE



RESIDENCE HM

THE NEW GENERATION OF COMFORT

RESIDENCE HM UNVEILS A NEW GENERATION OF CONDENSING BOILERS, ESTABLISHING RIELLO'S COMMITMENT TO TECHNOLOGICAL INNOVATION WITH THE AIM OF ENERGY SAVING AND SUSTAINABILITY, OFFERING A COMFORT THAT IS MORE AND MORE RESPONSIVE TO MODERN USER NEEDS.

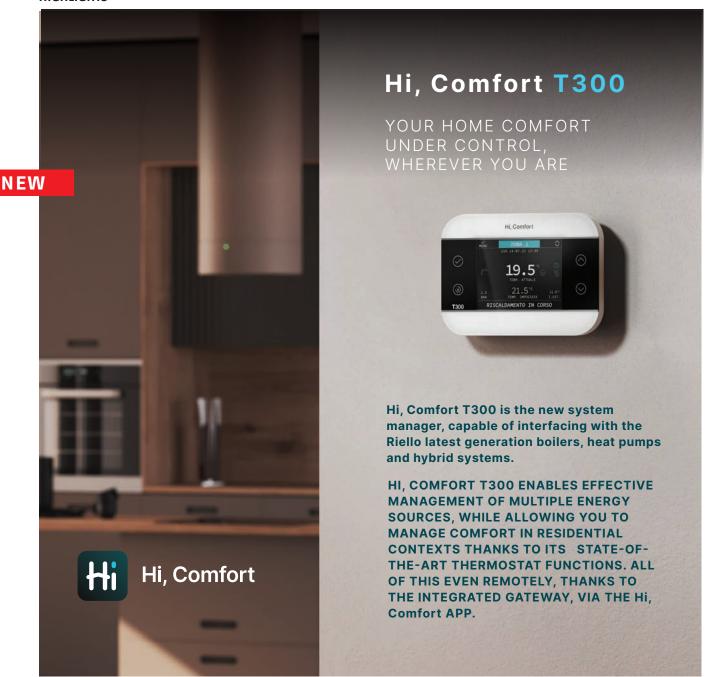
- RESIDENCE, among the most representative ranges of Riello's offerings in terms of reliability and performance, undergoes a profound renewal in design and technology to result in RESIDENCE HM.
- There are many improved features in this new wall-hung condensing boiler compared to the previous RESIDENCE series: from the high 1:10 modulation across the whole range, to the new stainless steel heat exchanger with renewed adaptive combustion control, up to the new touch control panel, just to mention the major ones.
- The new range, characterized by a silent operation, comes in a completely new design with a modern and evolved character that harmonizes easily in different residential contexts, both in retrofitting and new buildings.

- RESIDENCE HM is IoT ready, combining with Hi, Comfort platform accessories for remote comfort management via App.

 In combination with Hi, Comfort T300, hybrid system management via App is also possible, even remotely.
- Ready to operate with blends of natural gas and hydrogen, up to a maximum of 20%.



FOR A SUSTAINABLE FUTURE





CHRONOTHERMOSTAT:

Hi, Comfort T300 operates as a chronothermostat and allows you to set heating and cooling time bands for a proper balance between comfort and consumption.



REMOTE CONTROL VIA APP:

Maximum flexibility: with the use of Hi, Comfort App, home comfort will always be within reach of the smartphone..



IMMEDIATE AND SIMPLE TO USE:

Excellent user experience on chronothermostat and App, thanks to renewed graphics and a menu tree which traces the tradition of previous controls.



MANAGER FOR HYBRID SYSTEMS

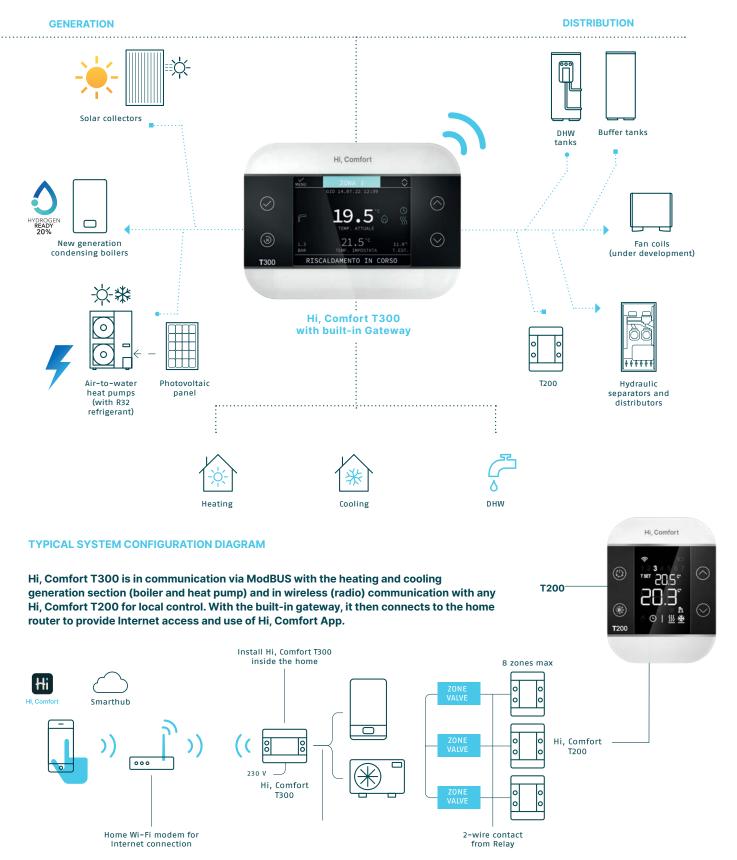
Efficient management of multiple energy sources; Hi, Comfort T300 is the real brain of the system, controlling boilers, heat pumps and solar thermal.



ROOM CONTROL:

The Hi, Comfort T200 thermostat, when paired in RF with the Hi, Comfort T300, provides optimal comfort control within any room of the home. Featuring innovative design and touch button technology for menu navigation, it offers a dual installation solution:

wall-mounted, or, via dedicated stand, placed on any piece of furniture in the room. It is also compatible with Hi, Comfort App. Hi, Comfort T300, with built-in gateway, can manage up to 3 zones through zone management heating kits and, in the case of hybrid installation, operates as a true system management, for optimized consumption. All this also via Hi, Comfort App. Hi, Comfort T300 is compatible with the Riello latest generation boilers and heat pumps for optimized home comfort management even in hybrid systems. The screen graphics of Hi, Comfort T300 are completely new, easy to read and do not tire the eyes. The icons are self-explanatory while the menu tree reproduces the configuration logic of traditional thermostats of compatible brands.



NB Hi, Comfort T300 is compatible with some Riello products of new generation. Please consult the present catalogue.

FAMILY SPRINT

IDEAL FOR BOTH RENOVATIONS AND NEW HOUSING

THE RIELLO AIR-TO-WATER WALL-HUNG SPLIT HEAT PUMP WITH R32 REFRIGERANT, DESIGNED TO PROVIDE HEATING, COOLING AND DOMESTIC HOT WATER

FAMILY SPRINT split wall-hung heat pumps are available in 10 power sizes, with a wide choice of single-phase models from 4 to 16 kW and three-phase models from 12 to 16 kW. The compressor, featuring DC Inverter technology, allows to reach a heating temperature up to 65°C. The standard on-board control allows easy management of the different functions, that are designed also to be used within a hybrid system, in combination with a gas heating source.

FEATURES AND ADVANTAGES:

- Efficiency and consequent energy savings. The product reaches class A+++ (A7/W35° C); A++ (A7/W55° C).
- The new FAMILY SPRINT range uses R32 refrigerant gas, with low environmental impact, in line with European reduction targets of CO2 emissions.
- Silent operation: the low noise level is achieved thanks to the design features and can be reduced down to 39 dB(A)* by setting the Silent mode, available for the user.
- System solution consisting in a wall-hung compact indoor unit, with a depth of only 270 mm, ideal for both replacement and new housing.





 $[\]ensuremath{^{*}}$ Sound pressure value referring to the 4 kW size in Silent mode.

CONDEXA HPR

COMPACTNESS AND EFFICIENCY IN THE PLANT ROOM

CONDEXA HPR IS A RANGE THAT OFFERS INSTALLATION FLEXIBILITY AND SYSTEM COMPACTNESS IN THE LIGHT COMMERCIAL SEGMENT. WITH ONLY 4 MODELS, 28 CONFIGURATION SOLUTIONS CAN BE REALIZED TO MEET THE MOST DIFFERENT SPACE REQUIREMENTS OF THE PLANT ROOM.



Thanks to its compactness and reduced weight, CONDEXA HPR is the ideal solution in all those environments where space is a critical factor in the choice of the heat generator.

The range consists of 4 condensing models from 35 to 70 kW, with the possibility of stand-alone and cascade installation of up to a maximum

of 4 thermal modules in both linear and back-to-back configurations, reaching outputs of up to 280 kW.

CONDEXA HPR is suitable for installation indoors or in a partially protected location (IPX5D), and is equipped as standard with low-energy modulating circulators.

ICONS

TO MAKE ITS PRODUCT CATALOGUE SIMPLE TO READ AND EASY TO UNDERSTAND, RIELLO USES THE FOLLOWING SELF-EXPLANATORY ICONS.



The product meets the "Energy Related Product" Directive and complies with the relevant requirements.



The energy class of the specific product model.



Low NOx emissions on standard efficiency combustion products.



The performance of this product is Keymark certified (either Solar or Heat pump).

RIELLO

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407 IN INVERTER

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GAS CONDENSING HOT AIR GENERATORS

472 GP CONDENS

HEAT PUMPS & CHILLERS WALL-HUNG BOILERS FLOOR-STANDING BOILERS WATER-HEATERS :<u>;;</u>; **SOLAR THERMAL AND CYLINDERS CENTRALIZED HEATING** 0 淼 **AIR CONDITIONING** \overline{u} **TERMINAL UNITS** 巾 SYSTEM COMPLEMENTARY ITEMS **HOT AIR GENERATORS**



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INDOOR

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HYBRID WALL SYSTEMS

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PRO MONOBLOC WALL-HUNG HYBRID SYSTEM



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PRO MONOBLOC FLOOR-STANDING HYBRID SYSTEM



STEEL PRO POWER 114/2P-270/2P-300/3P-405/3P-460/4P-540/4P ALU PRO POWER 115-600

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PRO MONOBLOC WALL-HUNG HYBRID SYSTEM



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PRO MONOBLOC FLOOR-STANDING HYBRID SYSTEM



STEEL PRO POWER 114/2P-270/2P-300/3P-405/3P-460/4P-540/4P

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TERMINAL UNITS

Hybrid system-Wall-hung solutions

Hybrid wall systems





- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with highefficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- the heat pump: wall-hung split air-water type, available in versions ranging from 4 to 16 kW, with wall-hung indoor unit for heating and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -25°C. The indoor unit houses the main components of the hydronic system, high surface plate exchanger and high-efficiency electronic circulation pump.
- the hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEI≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.



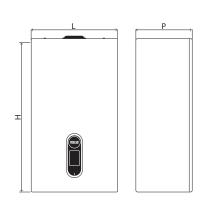
WALL-HUNG BOILERS

TECHNICAL DATA

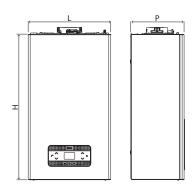
Description	Heat output Heating/Domestic Water min-max	Working efficiency		Domestic water production	Energy efficiency class		Notes	Code
	kW	Pn (50°/30°C) %	30% Pn (rit. 30 °C) %	ΔT 25°	•	7		
COMBINED VERSION OF HEATING AN	D INSTANT SANITARY WATER	,						
FAMILY HM 25 KIS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	14,3	A	A	(1)(3)	20206147
FAMILY HM 30 KIS	2,7÷25,0 / 2,7÷30,0	106,0	109,6	17,2	A	A	(1)(3)	20206148
FAMILY HM 35 KIS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	20,0	A	Α	(1)(3)	20206149
FAMILY HM CONNECT 25 KIS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	14,3	A	Α	(1)(4)	20206152
FAMILY HM CONNECT 35 KIS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	20,0	A	Α	(1)(4)	20206153
RESIDENCE HM 25 KIS	2,5÷20,0 / 2,5÷25,0	106,5	108,8	14,3	A	Α		20205317
RESIDENCE HM 30 KIS	3,0÷25,0 / 3,0÷30,0	106,0	108,8	17,2	A	Α		20205318
RESIDENCE HM 35 KIS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	20,0	A	Α		20205319
START 25 KIS	3,1÷20,0 / 3,1÷25,0	104,6-98,0	109,1	14,3	A	Α	(1)	20187404
START 25 KIS	3,1÷20,0 / 3,1÷25,0	104,6-98,0	109,1	14,3	A	Α	(1)	20187772
START 30 KIS	3,95÷25,0 / 3,95÷30,0	107,1-103,6	108,8	17,2	A	A	(1)	20187407
HEATING ONLY VERSION								
FAMILY HM 25 IS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	-	A	_		20206150
FAMILY HM 35 IS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	-	A	-		20206151
FAMILY HM CONNECT 35 IS	2,7÷32,0 / 2,70÷34,90	105,3	109,7	-	A	_		20206154
RESIDENCE HM 20 IS	2,5÷20,0 / 2,5÷20,0	106,5	108,8		A	_		20205320
RESIDENCE HM 30 IS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	-	A	_	(1)(2)	20205321
START 15 IS	3,1÷15,0 / 3,1÷25,0	105,7-98,0	109,6	-	A	-	(1)(2)	20187773
START 25 IS	3,1÷20,0 / 3,1÷25,0	104,6-98,0	109,1	-	A	_	(1)(2)	20187774
BUILT-IN INSTALLATION UNIT								
BUILT-IN INSTALLATION BOX								20161604
BUILT-IN UNIT S								20082309
BUILT-IN UNIT M								20082310

- (1) (2) (3) (4)
- The external probe is not included in the boiler supply, but is available as an accessory with code 1220559. To create a wall-mounted hybrid system, it is necessary to replace the boiler display with the code 20193921. To create a wall-mounted hybrid system, it is necessary to replace the boiler display with the code 20205322. Boilers already equipped with T300 hybrid system control panel, code 20205322.

OVERALL DIMENSIONS

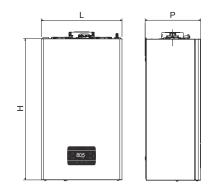


Description	H mm	L mm	P mm	Net weight kg
FAMILY HM 25 KIS / CONNECT	740	420	275	29
FAMILY HM 30 KIS	740	420	275	30
FAMILY HM 35 KIS / CONNECT	740	420	275	30
FAMILY HM 25 IS	740	420	275	28
FAMILY HM 35 IS / CONNECT	740	420	275	29



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HM 25 KIS	740	420	275	29
RESIDENCE HM 30 KIS	740	420	275	30
RESIDENCE HM 35 KIS	740	420	275	30
RESIDENCE HM 20 IS	740	420	275	28
RESIDENCE HM 30 IS	740	420	275	29

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Description	H mm	L mm	P mm	Net weight kg
START 25 KIS	700	400	275	28,5
START 30 KIS	700	400	275	30,0
START 25 IS	700	400	275	27,5
START 15 IS	700	400	275	27,5

MATCHING HEAT PUMPS

TECHNICAL DATA

Description		Hea	nting			Coc	ling		Electrical	Energy	Code
	Floo	or (1)	Fan co	oils (2)	Floo	r (3)	Fan co	ils (4)	supply V/Ph/Hz	efficiency class	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	
AIR-WATER MONOBL	OC SINGLE PI	HASE									
NXHM 004	4,20	5,10	4,30	3,80	4,50	5,50	4,70	3,45	230/1/50	A++	20203404
NXHM 006	6,35	4,95	6,30	3,70	6,50	4,80	7,00	3,00	230/1/50	A++	20203407
NXHM 008	8,40	5,15	8,10	3,85	8,30	5,05	7,45	3,35	230/1/50	A++	20203409
NXHM 010	10,00	4,95	10,00	3,75	9,90	4,55	8,20	3,25	230/1/50	A++	20203410
NXHM 012	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	230/1/50	A++	20203649
NXHM 014	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	230/1/50	A++	20203650
AIR-WATER MONOBLOC THREE-PHASE											
NXHM 012T	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	400/3/50	A++	20203652
NXHM 014T	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	400/3/50	A++	20203653

- The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

 (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

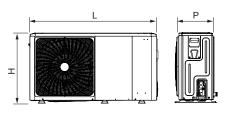
 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

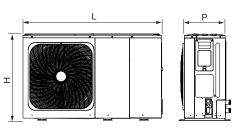
 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS





NXHM	008-014
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Description	H mm	L mm	P mm	Net weight kg
NXHM 004	718	1295	426	86
NXHM 006	718	1295	426	86
NXHM 008	865	1385	523	105
NXHM 010	865	1385	523	105
NXHM 012/012T	865	1385	523	129/144
NXHM 014/014T	865	1385	523	129/144

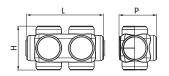
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

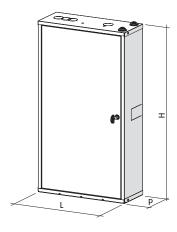
Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code		
DISTRIBUTION MODULES WITHOUT SEPARATOR							
HBOX - 1D HYBRID DISTRIBUTION MODULE	1 direct zone	_	_	(1)	20165227		
DISTRIBUTION MODULES WITH SEPARATOR							
BAG ³ HYBRID 1D	1 direct zone	230/1/50	57	(2)(5)	20130805		
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	20130806		
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	20130807		
IN-WALL INSTALLATION BOX	_	_	_	(4)	20130808		

- (1) (2) (3) (4) (5)
- Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.
 Equipped as standard with limit thermostat for low temperature systems.
 Mixed zone equipped as standard with limit thermostat for low temperature systems.
 Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
 Supplied without in-wall installation box.

OVERALL DIMENSIONS

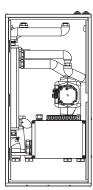


Description	H	L	P	Net weight
	mm	mm	mm	kg
HBOX - 1D HYBRID DISTRIBUTION MODULE	107	187	92	0,9

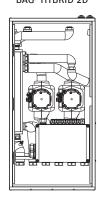


Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

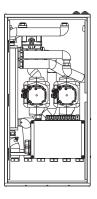
BAG³ HYBRID 1D



BAG³ HYBRID 2D



BAG³ HYBRID 1D+1M



ACCESSORIES

Description	Notes	Code
HBOX adjustable bypass valve	(1)	20182807

(1) Mandatory accessory when using HBOX - 1D hybrid distribution module code 20165227 with variable flow systems.

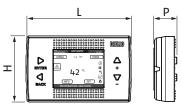
REC10MH MANAGEMENT CONTROL

TECHNICAL DATA

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Description	Electrical power supply V/Ph/Hz	Notes	Code
REC10MH Management control	230/1/50		20193921
T300 Hi, Comfort Management control	230/1/50		20205322

OVERALL DIMENSIONS



	L		P_
✓		^	
9		~	

Description	H	L	P	Net weight
	mm	mm	mm	kg
REC10MH MANAGEMENT CONTROL	90	146	32	0,15

Description	H	L	P	Net weight
	mm	mm	mm	kg
T300 Hi, Comfort MANAGEMENT CONTROL	95	132	95	0,15

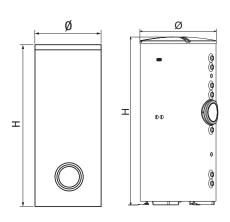
MATCHING SANITARY TANKS

TECHNICAL DATA

Description	Usable volume I	Lower coil exchange surface (m²)	Upper coil exchange power (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class	Notes	Code
RBC-HP 150 1S	170	0,85	6,3	99	10	55	В	(1)	20202962
RBC-HP 200 1S	210	1,38	8,8	99	10	58	В	(1)	20203095
RBC-HP 300 1S	305	1,7	12,4	99	10	68	В	(1)	20201786
RBS 200 2S	208	0,7	16.1	99	10	62	В	(2)	20116675
RBS 300 2S	301	1,0	23	99	10	69	В	(2)	20116335
7200 300 HP	263	4.0	_	99	10	85	С	(1)	4383500
7200 500 HP	470	6.0	_	99	10	112	С	(1)	4383501

- With Δt = 20°C and primary temperature of 80°C.
- Single-coil heater for heat pump. Double-coil solar heater.

OVERALL DIMENSIONS



Description	H mm	ø mm	S (*) mm	Net weight kg
RBC-HP 150 1S	1138	604	52	62
RBC-HP 200 1S	1354	604	52	78
RBC-HP 300 1S	1838	604	52	103
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166

Dimensions and weight with insulation.

(*) Insulation thickness.

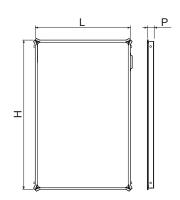
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collecto	r surface	Values refe	erred to the op	ening area	Stagnation	Notes	Code
	Gross m²	Net m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/4 A	2,49	2,38	0,76	2,990	0,027	180	(1)	20201316
RPS 20/4 A	2	1,9	0,76	2,990	0,027	180	(1)	20201319

⁽¹⁾ The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 181.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/4 A	2020	1235	85	35
RPS 20/4 A	1625	1235	85	29

WALL-MOUNTED BOILER ACCESSORIES

Description	Notes	Code
FAMILY HM - FAMILY HM CONNECT BOILER		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit		20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Well probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Antifreeze heaters -15 °C	(5)	20191888
External probe kit		1220559
Limit thermostat for low temperature installations		1220639
Split connection system kit Ø80 mm		20217921
Ø80 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174

	Notes	Code
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm	(-)	20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475
RESIDENCE HM BOILER		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit	(2)	20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Well probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)	(.,	20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Split connection system kit Ø80 mm		20217921
Ø80 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm	(17	20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475
Antifreeze heaters -15 °C	(5)	20191888
External probe kit	(3)	1220559
Limit thermostat for low temperature installations		1220639
START HM BOILER		1220039
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation	(1)	20191887
Air filter	(2)	20191331
Hydraulic low fittings cover	(2)	20190324
Dummy boiler Start 25 KIS		20191919
Wall mounting frame 1 pc.		201918891
Wall mounting frame 5 pcs.		20191891
Compact polyphosphate doser kit		
Compact magnetic filter		20191518
High residual pump 7 m		20191517
Crossover kit (DIN vs Riello)	(4)	20189142
	(4)	
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599

Description	Notes	Code
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Board BE09 with double multi-function relay	(3)	20192808
Antifreeze heaters -15 °C	(5)	20191888
External probe		1220559
Building site kit with analogue hydrometer		20191520
Limit thermostat for low temperature installations		1220639
Fixed split system kit Ø80 mm		20129765
Ø80 mm clapet with condensate trap		20164664
Ø80/125 mm clapet with condensate trap		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adapter kit B23 Ø80 mm		20129769
Split kit B23 Ø80 mm for in-wall installation box		20129768
Compact swelling kit Ø60/100 - Ø80/80		20190475
Propane air conversion kit (25 KIS - IS)		20192718
Propane air conversion kit (30 KIS)		20192719
LPG conversion kit (25 KIS - IS)		20192715
LPG conversion kit (30 KIS)		20192717

Unit supplied with door.

- Ideal to avoid introducing impurities from the intake air into the exchanger and burner. Ideal board for managing additional circulator or zone valve and alarm remote kit.
- (1) (2) (3)
- Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of boilers with previous boilers with Riello standard hydraulic connection sequence.
- The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177

 Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.
- (5) (6) (7)

HEAT PUMP ACCESSORIES

Description	Notes	Code
NXHM HEAT PUMPS		
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
50 litre inertial buffer tank	(1)	20171999
100 litre inertial buffer tank	(1)	20142300
1" Y water filter	(2)	20175281

The inertial tank cannot be installed horizontally below the heat pump.

The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.

ACCESSORIES HYBRID DISTRIBUTION MODULES

Description	Notes	Code
HYBRID DISTRIBUTION MODULES		
Cock kit on system and heat pump side		20131752
Photovoltaic system input card	(1)	20132409
Diverting valve kit for BAG³ HYBRID		20131755
Diverting valve kit for HBOX		20168920
Solar interface kit		20131756

To be used only if the diverting valve (code 20131755) is not present in BAG3 HYBRID configuration.

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DOMESTIC TANKS MODULES

Description	Notes	Code
DOMESTIC TANKS MODULES		
Solar heat exchanger 0.8 m² (7200 300 HP)		4383504
Solar heat exchanger 1,2 m² (7200 500-800 HP)		4383505
Solar heat exchanger 0,8 m² (RBC-HP 150-300)		20203248
Solar mixing diverting valve kit	(1)	20025113

Mandatory in case of domestic water heater installation and KIS model boiler.

SOLAR COLLECTOR MODULES ACCESSORIES

Description	Notes	Code
SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)	20116168

⁽¹⁾ The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.

SOLAR THERMAL ACCESSORIES

Description	Notes	Code
SOLAR THERMAL		
Solar collector probe kit	(1)	20008787
Manual solar degasser kit	(2)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383059
18-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, ¾" connection)		4383052
24-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, 3/4" connection)		4383053

The solar interface kit code 20131756 already contains the solar probe.

Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
	Hi, Comfort T100 Wi-Fi	(1)	20193354
20.8	Hi, Comfort T100	(2)	20193352
- CO 6	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356
	Hi, Comfort T200		20211852

⁽¹⁾ With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.

Use one for each set of manifolds fitted in the highest position.

For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

SYSTEM CONFIGURABILITY

Description	Code	Built-in unit				ement trol		Heat pumps possible combinations								Hydraulic distribution			
		Built-in unit M	Built-in unit	Built-in unit S	Hi, Comfort T300	REC10MH management control	100 MXHM 00¢	NXHM 006	NXHM 008	NXHM 010	NXHM 012	NXHM 014	NXHM 012T	NXHM 014T	HBOX - 1D hybrid distribution module (1)	BAG ³ HYBRID 1D (2)	BAG³ HYBRID 2D (2)	BAG³ HYBRID 1D+1M (2)	
		20082310	20161604	20082309	20205322	20193921	20203404	20203407	20203409	20203410	20203649	20203650	20203652	20203653	20165227	20130805	20130806	20130807	
COMBINED VERSION OF HEATING	AND INSTANT SA	NITAR	Y WATE	ER (*)					,							,			
FAMILY HM 25 KIS	20206147		•		•		•	•	•						•	•	•	•	
FAMILY HM 30 KIS	20206148		•		•		•	•	•	•	•		•		•	•	•	•	
FAMILY HM 35 KIS	20206149		•		•		•	•	•	•	•	•	•	•	•	•	•	•	
FAMILY HM CONNECT 25 KIS	20206152		•		(3)		•	•	•						•	•	•	•	
FAMILY HM CONNECT 35 KIS	20206153		•		(3)		•	•	•	•	•	•	•	•	•	•	•	•	
RESIDENCE HM 25 KIS	20205317		•		•		•	•	•						•	•	•	•	
RESIDENCE HM 30 KIS	20205318		•		•		•	•	•	•	•		•		•	•	•	•	
RESIDENCE HM 35 KIS	20205319		•		•		•	•	•	•	•	•	•	•	•	•	•	•	
START 25 KIS	20187404		•			•	•	•	•						•	•	•	•	
START 25 KIS	20187772		•			•	•	•	•						•	•	•	•	
START 30 KIS (4)	20187407		•			•	•	•	•	•	•		•		•	•	•	•	
HEATING ONLY VERSION (*)																			
FAMILY HM 25 IS	20206150		•		•		•	•	•						•	•	•	•	
FAMILY HM 35 IS	20206151		•		•		•	•	•	•	•	•	•	•	•	•	•	•	
FAMILY HM CONNECT 35 IS	20206154		•		(3)		•	•	•	•	•	•	•	•	•	•	•	•	
RESIDENCE HM 20 IS	20205320		•		•	•	•	•	•						•	•	•	•	
RESIDENCE HM 30 IS	20205321		•		•	•	•	•	•						•	•	•	•	
START 15 IS	20187773		•			•	•	•	•						•	•	•	•	
START 25 IS	20187774		•			•	•	•	•						•	•	•	•	

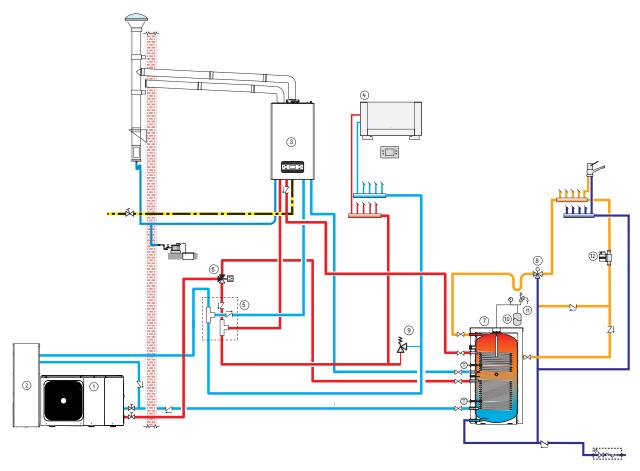
- (1) (2) (3) (4) (*)
- Can only be combined with NXHM 004-006-008 heat pumps.
 Combine the flush-mounted box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.
 Boiler already equipped with a T300 Hi, Comfort Management control.
 For configurations of hybrid systems composed of START 25-30 KIS MTN, NXHM 004-006-008, and H BOX module 1 DIR, see Riello Hybrid Start page.
 Check when ordering which BUILT-IN RIGID RAMPS the boiler needs to be installed in the BUILT-IN UNITS.

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TERMINAL UNITS

EXAMPLES OF PLANT WITH HYBRID WALL SYSTEM

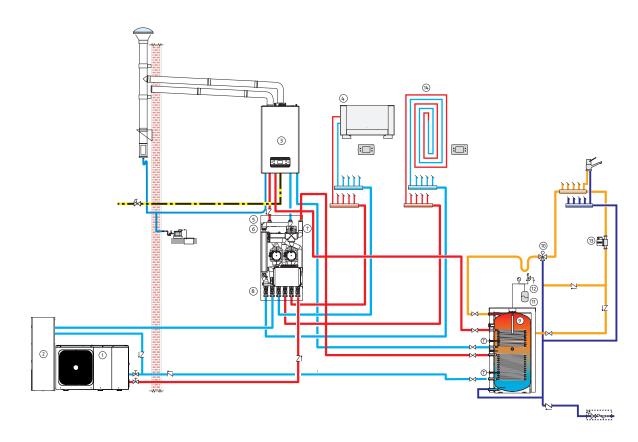
BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND BOILER



- Heat pump
- Hot/cold inertial storage kit 2
- 3 Wall-hung boiler
- 4 Fan coil
- HBOX 1D Hybrid distribution module
- DHW diverter valve kit for heat pump

- 7 Heater
- 3/4 "thermostatic mixer 8
- 9 Adjustable by-pass valve
- Expansion vessel 10
- 11 Safety valve
- DHW recirculation pump

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND MULTI-ZONE **BOILER**

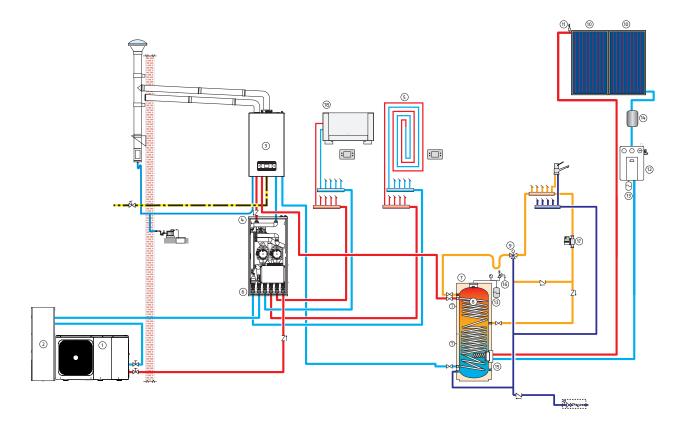


- Heat pump Hot/cold inertial storage kit 2
- 3 Wall-hung boiler
- Fan coil
- 5 BAG³ HYBRID
- 6 In-wall installation box
- BAG³ HYBRID Diverting valve kit

- Tap kit for BAG3 HYBRID system and heat pump side 8
- 9 Heater
- 3/4 "thermostatic mixer 10
- 11 **Expansion vessel**
- 12
- Safety valve DHW recirculation pump 13
- Underfloor heating system

RIELLO

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SOLAR THERMAL, HEAT PUMP **AND BOILER**



- Heat pump Hot/cold inertial storage kit 2
- Wall-hung boiler
- BAG³ HYBRID
- Underfloor heating system
- Tap kit for BAG3 HYBRID system and heat pump side 6
- DHW heater 7
- DHW boiler coil
- 3/4 "thermostatic mixer
- Solar collector

- Manual solar degasser kit Solar hydraulic unit 11
- 12
- 13 Expansion vessel
- 14 Intermediate solar tank
- Solar exchanger 15
- Safety valve 16
- 17 DHW recirculation pump
- Fan coil

Air-water split floor-standing heat pump

PRO Monobloc wall-hung hybrid system





- Heating/cooling and production of DHW
- Smart management of multiple energy sources: condensing boiler, solar thermal and heat pump.
- Possibility of managing up to 2 independent zones

The PRO monobloc wall-hung hybrid system is a multi-energy hybrid system suitable for heating, summer cooling and the production of DHW. This system combines two main components:

- the wall-hung boiler: depending on the power required by the system, the gas boiler can be chosen from the CONDEXA HPR or CONDEXA PRO ranges, in stand-alone or cascade versions. Power can vary from a minimum of 35 kW to a maximum of 645 kW, depending on the range and configuration chosen. The boilers in the CONDEXA HPR range are equipped with a horizontal stainless steel primary heat exchanger; the range consists of 4 models in heat only version, with thermal modules from 34.9 up to 70 kW. Condexa HPR can be installed individually indoors or in a partially protected location, while up to four modules can be installed internally in cascade, either in an in-line or back-to-back configuration. It can operate with a mixture of natural gas and hydrogen, up to a maximum of 20%. It has a modulation ratio of 1:8 in a single installation, up to 1:32 in coil installation. It is also equipped with a modulating pump with high head and low consumption. The maximum operating pressure is 5 bar. The boilers in the CONDEXA PRO range are equipped with a vertical stainless steel primary exchanger. The range consists of 6 models with thermal modules from 57 up to 131 kW. The power modulation ratio is 1:5 in single boiler installations and up to 1:25 in cascades of up to 5 boilers as required for use with this hybrid system. It can be installed indoors or alternatively, in a single boiler configuration, outdoors, with the use of a special optional kit. It is also equipped with a modulating pump with high head and low consumption. The maximum operating pressure is 6 bar.
- the external monobloc heat pump which operates with environmentally friendly refrigerant R32, for heating, cooling and DHW preheating for domestic use. Depending on the chosen overall capacity of the boiler system, a split heat pump from the NXHM 010-030 series in a stand-alone version or NXHM 018-030 in a stand-alone and cascade version. The NXHM 004-016 series heat pump is available in the 10, 12, 14 and 16 kW versions. There are 4 models (18 and 30 kW) of the NXHM 018-030 series heat pump available. The system can interface with a photovoltaic system to change its energy strategy, favouring the use of the electrical source when self-producing.

To complete the system, a wide range of accessories is available to ensure simple, fast installation and to meet different installation requirements.

Available accessories can be found in the specific sections of the boilers and heat pumps used by the system.

WALL-HUNG BOILERS

TECHNICAL DATA

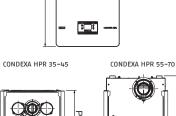
RIELLO

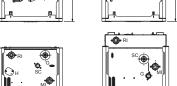
Description		OUTPUT KW			EFFICIENCY - 9	6	Energy	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	efficiency class	
WALL-HUNG CONDENSING GAS-FIRED MO	DULES FOR INTI	ERNAL ENVIR	ONMENTS		`			
CONDEXA HPR 35	33,99	37,31	5,2-34,9	97,4	106,9	108,2	А	20190064
CONDEXA HPR 45	43,88	47,30	5,2-45,0	97,5	105,1	107,9	Α	20190066
CONDEXA HPR 55	53,60	58,25	8,2-55,0	97,5	105,9	107,6	Α	20190067
CONDEXA HPR 70	68,22	74,19	8,2-70,0	97,5	106,0	107,5	А	20190068
WALL-HUNG CONDENSING GAS-FIRED MO	DDULES FOR INTI	ERNAL/ EXTER	RNAL ENVIRONM	IENTS				
CONDEXA PRO 57 P	55,7	61,6	14,0-57,0	98,3	108,6	109,2	А	20115223
CONDEXA PRO 70 P	67,1	73,9	14,0-68,0	98,1	108,1	109,0	А	20115224
CONDEXA PRO 90	88,3	97,4	19,4-90,0	98,2	108,3	109,1	-	20115225
CONDEXA PRO 100	95,3	105,1	19,4-97,0	98,1	108,2	109,0	-	20115226
CONDEXA PRO 115	109,9	121,2	22,4-112,0	98,5	108,6	108,8	-	20115228
CONDEXA PRO 135	129,2	142,3	26,2-131,0	98,3	108,3	109,1		20115229

OVERALL DIMENSIONS

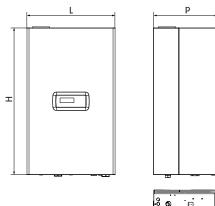


Description	H mm	L mm	P mm	Ø mm	Net weight kg
CONDEXA HPR 35	740	470	350	60/100	39
CONDEXA HPR 45	740	470	350	60/100	39
CONDEXA HPR 55	740	470	453	80/125	53
CONDEXA HPR 70	740	470	453	80/125	53

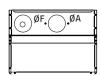




MI - SYSTEM DELIVERY Ø G 1" 12 M RI - SYSTEM RETURN Ø G 1" 12 M SC - CONDENSATE OUTLET Ø 25 mm G - GAS INLET Ø G 1" M



Description	H mm	L mm	P mm	ø mm	Net weight kg
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84
CONDEXA PRO 135	1170	600	435	110	90





M-DELIVERY G 1"½
G-GAS G 1"
R-RETURN 1"½
SC-CONDENSATE OUTLET Ø24 mm
ØF-FLUE GAS
ØA-AIR (optional)

MATCHING HEAT PUMPS

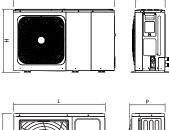
TECHNICAL DATA

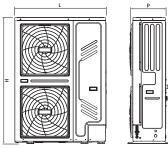
Description		HEA	TING			C00	LING		Electrical	Energy	Code
	Floor	r (1)	Fan co	ils (2)	Floor	r (3)	Fan co	ils (4)	supply V/Ph/Hz	efficiency class	
	Nominal	COP	Nominal	COP	Nominal	EER	Nominal	EER		(5)	
	power kW		power kW		power kW		power kW			.000	
AIR-WATER MONOBLOC SINGLE PHASE											
NXHM 010	10,00	4,95	10,00	3,75	9,90	4,55	8,20	3,25	230/1/50	A+++	20203410
NXHM 012	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	230/1/50	A+++	20203649
NXHM 014	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	230/1/50	A+++	20203650
NXHM 016	15,90	4,50	16,00	3,50	14,20	3,61	14,00	2,50	230/1/50	A+++	20203651
AIR-WATER MONOBLOC THREE-PI	HASE										
NXHM 012T	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	400/3/50	A+++	20203652
NXHM 014T	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	400/3/50	A+++	20203653
NXHM 016T	15,90	4,50	16,00	3,50	14,20	3,61	14,00	2,50	400/3/50	A+++	20203655
NXHM 018T	18,00	4,70	18,00	3,50	18,50	4,75	17,00	3,05	400/3/50	A+++	20194140
NXHM 022T	22,00	4,40	22,00	3,40	23,00	4,60	21,00	2,95	400/3/50	A+++	20194141
NXHM 026T	26,00	4,08	26,00	3,10	27,00	4,30	26,00	2,70	400/3/50	A+++	20194142
NXHM 030T	30,10	3,91	30,00	2,90	31,00	4,00	29,50	2,55	400/3/50	A++	20194143

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

- **OVERALL DIMENSIONS**





Description	H mm	L mm	P mm	Net weight kg
NXHM 010	865	1385	523	105
NXHM 012-016	865	1385	523	129
NXHM 012T-016T	865	1385	523	144

Description	H	L	P	Net weight
	mm	mm	mm	kg
NXHM 018-030T	1558	1129	528	177

MATCHING INERTIAL STORAGE

TECHNICAL DATA

Description	Volume output power I	Maximum temperature °C	Maximum pressure bar	Dispersion W	Energy class <u>≅</u>	Notes	Code
7000 ACI 200 PLUS	203	99	6	68	С	(1)	20028093
7000 ACI 300 PLUS	277	99	6	82	С	(1)	20028094
7000 ACI 500 PLUS	473	99	6	114	С	(2)	20028096
7000 ACI 800 PLUS	732	99	6	131	С	(2)	20137619
7000 ACI 1000 PLUS	855	99	6	139	С	(2)	20137620

(1) Tank with 4 fittings for use in series on boiler return in combination with hydraulic separator.

(2) Tank with 6 connections to be used as shown in the diagrams at the end of this section.

TERMINAL UNITS

MATCHING SOLAR HYDRAULIC UNITS

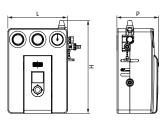
TECHNICAL DATA

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Description	Connection and ball valve	Net area connectable collectors m²	Notes	Code
RSS MRS	Flow/Return	55	(1)	20116166

(1) Equipped with differential controller EVOSOL.

OVERALL DIMENSIONS



Description	H	L	P	Net weight
	mm	mm	mm	kg
RSS MRS	418	313	185	5,0

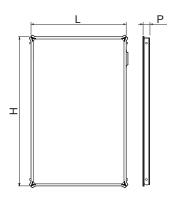
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values refe	rred to the op	ening area	Stagnation	Notes	Code
	Gross m²	Net m²	η0	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/4 A	2,49	2,38	0,76	2,990	0,027	180	(1)	20201316
RPS 20/4 A	2	1,9	0,76	2,990	0,027	180	(1)	20201319

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 181.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/4 A	2020	1235	85	35
RPS 20/4 Δ	1625	1235	85	29

MATCHING DHW HEATERS

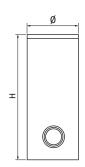
TECHNICAL DATA

Description	Usable volume	Coil surface heat pump m²	Lower coil exchange surface	Upper coil exchange power	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class	Code
			(m²)	(kW)				≋	
SINGLE COIL DOMESTIC HOT WATER TAN	IKS				,				,
7200 300 HP	263	4,0	-	-	99	10	85	С	4383500
7200 500 HP	470	6,0	_	_	99	10	112	С	4383501
7200 800 HP	702	7,0	_	_	99	10	130	С	20136293
RBC-HP 500 1S	500	2,2	_	_	99	10	84	В	20201984
RBC-HP 800 1S	735	2,5	_	_	99	7	94	В	20202273
RBC-HP 1000 1S	890	2,9	_	_	99	7	101	В	20202861
DOUBLE COIL DOMESTIC HOT WATER TA	NKS						•		
RBS 430 2S	430	-	1,4	31,4	99	10	75	В	20117339
RBS 550 2S	551	-	1,8	31,4	99	10	85	В	20116587
RBS 800 2S	731	-	2,3	50	99	7	94	В	20132268
RBS 1000 2S	883	-	2,7	50	99	7	101	В	20132269
7200/2-1500 HV PLUS	1390	-	3,4	47	99	8	162	С	20136237
7200/2-2000 HV PLUS	1950	_	4,6	73	99	8	186	С	20136239
FLANGED DOMESTIC HOT WATER TANKS									
7200/3F-1000 HV PLUS	955	-	-	-	99	10	142	С	20136274
7200/3F-1500 HV PLUS	1430	-	-	-	99	8	162	С	20136275
7200/3F-2000 HV PLUS	1990	-	-	-	99	8	186	С	20136277
7200/3F-3000 HV PLUS	2959	_	_	_	99	8	344	-	20052788

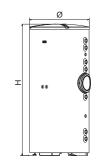
TERMINAL UNITS

OVERALL DIMENSIONS

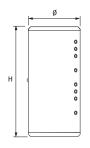
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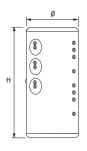


KD	C-U5 12 120±200	KDC-	-HP 13 800/1000
	Ø	T	Ø
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+		*	L



7200/2-1500/2000 HV PLUS 7200/3F-1000÷3000 HV PLUS





Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	220

(*) Insulation thickness.
Dimensions and weight with insulation.

Description	H mm	ø mm	S (*) mm	Net weight kg
RBC-HP 500 1S	1793	755	52	150
RBC-HP 800 1S	1831	970	92	203

2156

973

92

225

(*) Insulation thickness.
Dimensions and weight with insulation.

RBC-HP 1000 1S

Description	H mm	ø mm	S (*) mm	Net weight kg
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Insulation thickness.
Dimensions and weight with insulation.

Description	H mm	ø mm	S (*) mm	Net weight kg
7200/2-1500 HV PLUS	2185	1200	100	325
7200/2-2000 HV PLUS	2470	1300	100	540
7200/3F-1000 HV PLUS	2205	990	100	190
7200/3F-1500 HV PLUS	2185	1200	100	305
7200/3F-2000 HV PLUS	2470	1300	100	325
7200/3F-3000 HV PLUS	2680	1450	100	543

(*) Insulation thickness. Dimensions and weight with insulation.

GUIDE TO SYSTEM CONFIGURATION



- 1. SELECTION OF WALL-HUNG BOILER RANGE
- 1.1 CONDEXA HPR boiler-Heat pump combinations
- 1.2 CONDEXA PRO boiler-Heat pump combinations
- 2. WALL-HUNG BOILER ACCESSORIES
- 2.1 Accessories for CONDEXA HPR boilers
- 2.2 Accessories for CONDEXA PRO boilers
- 3. ACCESSORIES TO COMPLETE THE SYSTEM
- 3.1 Hydraulic accessories
- 3.2 Domestic hot water tank accessories
- 4. HI, COMFORT CONTROLS

1. SELECTION OF WALL-HUNG BOILER RANGE

Boiler output p	power (80°/60°) [kW]	Stand alone	Number of cascading boilers						
Boiler range	Boiler description	1	2	3	4	5			
	CONDEXA HPR 35	34	68						
CONDEVA LIDD	CONDEXA HPR 45	44	88						
CONDEXA HPR	CONDEXA HPR 55	54	107						
	CONDEXA HPR 70	68	136						
	CONDEXA PRO 57 P	56	111						
	CONDEXA PRO 70 P	67	134						
COMPENA DDO	CONDEXA PRO 90	88	177	265	353				
CONDEXA PRO	CONDEXA PRO 100	95	191	286	381				
	CONDEXA PRO 115	110	220	329	439	549			
	CONDEXA PRO 135	129	258	387	516	645			

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TERMINAL UNITS

1.1 CONDEXA HPR BOILER-HEAT PUMP COMBINATIONS

The following combinations are those that guarantee the best energy performance. For the complete list of certified hybrid systems please refer to the company statement.



Combinations with stand-alone boilers

Description	Code	Nominal power (kW)	1x NXHM 010 (20203410)	12,1	1× NXHM 014 (20203650)	1× NXHM 016 (20203651)	12.1 1x NXHM 012T (20203652)	14,5	15. 15. 15.	1x NXHM 18T (20194140)	7x NXHM 22T (20194141)	1x NXHM 26T (20194142)	1x NXHM 30T (20194143)
CONDEXA HPR 35	20190064	34	•	•	•	•	•	•	•				
CONDEXA HPR 45	20190066	43,9		•	•	•	•	•	•	•			
CONDEXA HPR 55	20190067	53,6			•	•		•	•	•	•	•	
CONDEXA HPR 70	20190068	68,2								•	•	•	•

Combinations with cascading boilers

Description	Code	Nominal	20194140)	22T (2019年4月)	90 1x NXHM 26T (20194/42)	1.00 1x NXHM 30T (20194143)	9 2x NXHM 18T (20194140)	子 2x NXHM 22T (20194141)	2x NXHM 26T (20194142)	2x NXHM 30T (20194143)	3x NXHM 18T (20194140)	9 3x NXHM 22T (20194141)
		power (kW)				<u> </u>				<u> </u>		
2x CONDEXA HPR 35	20190064	68	•	•	•	•						
2x CONDEXA HPR 45	20190066	87,7		•	•	•	•					
2x CONDEXA HPR 55	20190067	107,2				•	•	•	•			
2x CONDEXA HPR 70	20190068	136,4					•	•	•	•	•	•

1.2 CONDEXA PRO BOILER-HEAT PUMP COMBINATIONS

The following combinations are those that guarantee the best energy performance. For the complete list of certified hybrid systems please refer to the company statement.



Combinations with stand-alone boilers

Description	Code	Nominal power (kW)	14, NXHM 014 (20203650)	12 12 1× NXHM 016 (20203651)	14. NXHM 014T (20203653)	12 12 12 NXHM 016T (20203655)	1x NXHM 18T (20194140)	7x NXHM 22T (20194141)	90 1x NXHM 26T (20194142)	1, NXHM 30T (20194143)	9 2x NXHM 18T (20194140)	文× NXHM 22T (20194141)	2x NXHM 26T (20194142)	0 2x NXHM 30T (20194143)	(04146102) 181 MHXN XE 54
CONDEXA PRO 57 P	20115223	55,7	•	•	•	•	•	•	•						
CONDEXA PRO 70 P	20115224	67					•	•	•	•					
CONDEXA PRO 90	20115225	88,3							•	•	•	•			
CONDEXA PRO 100	20115226	95,3							•	•	•	•			
CONDEXA PRO 115	20115228	109,8								•	•	•	•		•
CONDEXA PRO 135	20115229	129									•	•	•	•	•

Combinations with cascading boilers

Description	Code	Nominal power (kW)	U 1x NXHM 30T (20194:143)	9 2x NXHM 18T (20194140)	大 2x NXHM 22T (20194141)	Zx NXHM 26T (20194442)	2x NXHM 30T (20194143)	4 (20194140)	9 3x NXHM 22T (20194141)	8 3x NXHM 26T (20194142)	0 3x NXHM 30T (20194:143)	4. NXN X41 (20194143)	5x NXHM 30T (20194143)	6x NXHM 30T (20194:143)
2x CONDEXA PRO 57 P	20115223	111,4	•	•	•	•		•						
2x CONDEXA PRO 70 P	20115224	134		•	•	•	•	•	•					
2x CONDEXA PRO 90	20115225	176,6				•	•	•	•	•				
2x CONDEXA PRO 100	20115226	190,6				•	•	•	•	•	•			
2x CONDEXA PRO 115	20115228	219,6					•		•	•	•			
2x CONDEXA PRO 135	20115229	258							•	•	•	•		
3x CONDEXA PRO 90	20115225	264,9								•	•	•		

Description	Code		1x NXHM 30T (20194143)	2x NXHM 18T (20194140)	2× NXHM 22T (20194141)	2× NXHM 26T (20194142)	2X NXHM 30T (20194143)	3x NXHM 18T (20194140)	3x NXHM 22T (20194141)	3x NXHM 26T (20194142)	3x NXHM 30T (20194143)	4x NXHM 30T (20194143)	5x NXHM 30T (20194143)	6x NXHM 30T (20194143)
		Nominal power (kW)	30,1	36	44	52	60,2	54	66	78	90,3	120,4	150,5	180,6
3x CONDEXA PRO 100	20115226	285,9								•	•	•		
3x CONDEXA PRO 115	20115228	329,4									•	•	•	
3x CONDEXA PRO 135	20115229	387										•	•	•
4x CONDEXA PRO 90	20115225	353,2									•	•	•	
4x CONDEXA PRO 100	20115226	381,2										•	•	•
4x CONDEXA PRO 115	20115228	439,2										•	•	•
4x CONDEXA PRO 135	20115229	516											•	•
5x CONDEXA PRO 115	20115228	549											•	•
5x CONDEXA PRO 135	20115229	645												•

2. WALL-HUNG BOILER ACCESSORIES

When choosing the boiler accessories refer to the accessories sections of the selected range in relation to the type of installation selected, either STAND ALONE or cascade (IN LINE or BACK TO BACK).

2.1 Accessories for CONDEXA HPR boilers

Description	Notes	Code
BOILER ACCESSORIES		
Outdoor temperature sensor		1220559
LPG conversion kit (35/45 kW)		20195886
LPG conversion kit (55/70 kW)		20201489
Supporting frames	(1)	20196701
System shut-off cocks		20190221
N2 neutraliser kit (up to 450 kW)		4031810
HN2 neutraliser kit (up to 280 kW)	(2)	4031811
ACCESSORIES - STAND ALONE INSTALLATION		
Connection pipe to hydraulic separator/plate heat exchanger	(3)	20195886
Horizontal hydraulic separator		20195884
Internal 3-way valve kit	(4)	20195889
External 3-way valve kit	(5)	20195890
Delivery/return connection for direct installation		20195891
Stub kit with safety devices	(6)	20195883
Relief valve 4.5 bar FF 3/4"x1"	(7)	20199254
Cover for group/hydraulic separator		20195885
Spacer kit for wall mounting	(8)	20200070
ACCESSORIES - CASCADE INSTALLATION		
Trains with isolation	(9)(10)	20197000
Trains with isolation - B2B	(9)(10)	20197001
Trains without isolation	(9)(10)	20197005
Trains without isolation - B2B	(9)(10)	20197006
Gas train kit for cascade installation 35-45 kW	(9)	20197634
Gas train kit for cascade installation 55-70 kW	(9)	20197635
Gas train kit for cascade installation 35-45 kW - B2B	(9)	20197639
Gas train kit for cascade installation 55-70 kW - B2B	(9)	20197640
2'' 1/2 manifolds for cascade of 2 boilers		20197007
2'' 1/2 manifolds for cascade of 1 boiler		20197362
2"1/2 PN6 through flange kit		20197366
2''1/2 PN6 blind flange kit		20197367

Description	Notes	Code	
Condensate outlet kit for cascade boiler		20197364	
Stub kit for safety device housing 2" 1/2		20196449	
2"1/2 hydraulic separator kit		20197642	
Safety kit	(11)	20071190	
Relief valve up to 400 kW (4.5 bar)		20197368	
Fuel shut-off valve (VIC) - ØG.1"	(12)(14)	20009486	
Fuel shut-off valve (VIC) - ØG.1" ½	(13)(14)	20009482	
Cover for manifolds and trains for cascade configuration		20197363	
Ø80 mm fixed split system kit		20129765	
Adapter for Ø80 to Ø110 mm		20197070	
Ø80/110 mm rainproof vertical fitting		20196319	
90° elbow Ø80 mm		20137506	
Air intake kit B23		20137538	
Cascade terminal Ø160 mm with condensate outlet		20062338	
Collector array Ø160 mm for 1 boiler		20197583	
Y fitting Ø160/160 mm		20197582	
Remote cascade and zone controller	(15)	20199623	

- Frame is required in the case of coil installation and in the case of single installation with plate heat exchanger Equipped with extraction pumps.
- Prearranged for coupling with relief valve code 20199254. Can be combined with models 35–45 kW.
- Can be combined with plate heat exchanger kit for single boiler for DHW production.
- It contains a thermometer, pressure gauge, relief valve, safety pressure switch and VIC valve. Can be used in Italy in combination with the 35kW model only.

- Kit required for concentric rear wall outlet for 55-70 kW models.

 To be ordered for each storage tank in the cascade system (qty = no. boilers).

 Does not include the gas train

 Does not include the relief valve and VIC.
- (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)
- Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.

(13) Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar.
(14) Intervention temperature 97 °C - Capillary length 5 m.
(15) Allows management of: cascade system, solar thermal and up to 6 independent direct/mixed zones.
NOTE: for the calculation of maximum permissible VIC power, with supply pressures other than 20 mbar, please contact the pre-sales service. For the flue gas outlet system, please refer to the current price list.

2.2 Accessories for CONDEXA PRO boilers

Description	Notes	Code
BOILER ACCESSORIES		
External sensor		20132778
Condensate outlet kit for stand alone boiler	(1)	20133102
Injection pump kit (90-115 kW)	(1)(2)	20125034
High head (115 kW) and low head (135 kW) injection pump kit	(1)(3)	20125035
High head injection pump kit (135 kW)	(1)(4)	20125040
Stub kit with safety devices for stand alone boiler	(5)	20131898
Shut-off cock 1" ½		20190221
Frame kit for FRONT/B2B cascade		20131663
Frame conversion kit for B2B cascade		20131664
HN2 neutraliser kit (up to 280 kW)		4031811
N2 neutraliser kit (up to 450 kW)		4031810
N3 neutraliser kit (450-1500 kW)		4031812
HN3 neutraliser kit (280-750 kW)		4031813
ACCESSORIES - STAND ALONE INSTALLATION		
Horizontal hydraulic separator kit for stand alone boiler	(6)	20131897
Delivery/return fitting kit for direct installation (57-135 kW)		20136823
Kit IPX5D for outdoor installation (57–70 kW)		20132365
Kit IPX5D for outdoor installation (90–135 kW)		20128135
Type C conversion kit (57–70 kW)		20131665
Type C conversion kit (90-135 kW)		20131668
Spacer kit for wall mounting		20131270
ACCESSORIES - CASCADE INSTALLATION		
Primary sensor	(7)	20175714
Condensate outlet kit for cascade boiler	(8)	20131267

RIELLO

Description	Notes	Code	
Trains without isolation (57–135 kW)	(9)(11)	20130658	
Trains with isolation (57–135 kW)	(9)(11)	20131122	
Trains without isolation (135 kW) (external pump)	(10)(12)	20131121	
Trains with isolation (135 kW) (external pump)	(10)(12)	20131123	
Trains without isolation B2B (57-135 kW)	(13)	20131787	
Trains with isolation B2B (57–135 kW)	(13)	20131789	
Trains without isolation B2B (135 kW) (external pump)	(14)	20131788	
Train with isolation B2B (135 kW) (external pump)	(14)	20131790	
3" cascade manifolds kit for 1 boiler	(15)	20133220	
3" cascade manifolds kit for 2 boilers	(16)	20130220	
3" cascade manifolds kit for 3 boilers	(16)	20130221	
5" cascade manifolds kit for 2 boilers	(17)	20130222	
5" cascade manifolds kit for 3 boilers	(17)	20130223	
3" closing plug kit		20070903	
3" through flange kit		20082190	
5" closing plug kit		20070907	
5" through flange kit		20082191	
Covering with insulation for manifolds/cascade trains		20132377	
Stub kit for housing 3" safety device		20070910	
Stub kit for housing 5" safety device		20070912	
Safety kit	(18)	20071190	
Relief valve 5.4 bar ØG.¾" F (up to 460 kW)		20023104	
Relief valve 5.4 bar ØG.1" F (up to 580 kW)		20023106	
Fuel shut-off valve (VIC) - ØG.1"	(19)(23)	20009486	
Fuel shut-off valve (VIC) - ØG.1" ½	(20)(23)	20009482	
Fuel shut-off valve (VIC) - ØG.2"	(21)(23)	20009483	
Fuel shut-off valve (VIC) - ØG.3" (flanged	(22)(23)	20061640	
Flange kit - 3" DN80 PN6 - 3" DN80 PN16	(24)	20161191	
Adapter Ø80/110 mm	(25)	20131238	
Cascade terminal Ø160 mm with condensate outlet		20062338	
Collector array Ø160 mm for 1 boiler		20131266	
Eccentric adapter Ø160/200 mm		20132391	
Y fitting Ø160/160 mm		20132381	
Y fitting Ø160/200 mm		20132384	

- The pump, which can be housed in the boiler, offers a high residual head on Condexa Pro 90–100 and with these boilers is also suitable in combination with the plate heat exchanger. If the pump is used with Condexa Pro 115, it can be combined with the hydraulic separator but not with the plate heat exchanger. (2)
- When combined with Condexa Pro 135, this circulation pump can be mounted inside the boiler and offers a very low residual head (10 mbar). It must ONLY be used in combination with the horizontal hydraulic separator code: 20131897. (3)
- This circulation pump cannot be mounted inside the boiler, it must be installed beneath the boiler. Includes all safety devices, including relief valves and VIC. To be used in combination with a tank with 4 fittings. The frame is required in the case of installation with a plate heat exchanger. (5)

- The frame is required in the case of installation with a plate heat exchanger.

 No. 1 sensor for each cascade system, to be connected to the master boiler.

 To be ordered for each storage tank in the cascade system (qty = no. boilers)

 To be ordered for each storage tank in the cascade system (qty = no. boilers) with pump or valve installed inside

 To be ordered for each storage tank in the cascade system (qty = no. boilers) with pump installed outside the boiler.

 To be ordered for each manifold-side boiler with pump or valve installed inside the boiler.

 To be ordered for each boiler opposite the manifolds with pump or valve installed outside the boiler.

 To be ordered for each boiler opposite the manifolds with pump or valve installed outside the boiler.
- (12)
- (14) To be ordered for each boiler opposite the manifolds with pump or valve installed outside the boiler.
- To be used for the BACK TO BACK configuration with no. 2 BOILERS; includes 3" flanged DN80 delivery/return manifolds, 2" threaded gas manifold, condensate outlet manifold.
- (16) For use with maximum power up to 485 kW; includes 3" flanged DN80 delivery/return manifolds, 2" threaded gas manifold, condensate outlet manifold.
- For use with maximum power exceeding 485 kW; includes 5" flanged DN125 delivery/return manifolds, 3" flanged DN80 gas manifold, condensate outlet manifold.
- Does not include the relief valve and VIC.
- Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar.
- Recommended up to maximum output of 580 kW, calculated considering gas supply pressure = 20 mbar. Recommended up to maximum output of 1150 kW, calculated considering gas supply pressure = 20 mbar.
- (23) Intervention temperature 97 °C Capillary length 5 m.
- (24) To be used in conjunction with fuel shut-off valve (VIC) ØG.3" (flanged DN80) code 20061640.
- (25) Only required for 57-70 kW.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Heat pump accessories

Description	Code
ELECTRIC ACCESSORIES	
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature	20194933
1" & 1 1/4" DHW diverting valve without temperature probe	20203742

3.2 DHW heater accessories

Description	Notes	Code
Electronic anode equipped with plug	(1)	20055206
Thermometer kit	(1)	20123850
Curve kit for electronic anode	(1)	20123851
Solar heat exchanger 0.8 m2 for HP 300	(2)	4383504
Solar heat exchanger 1.2 m2 for 500 HP and 800 HP	(3)	4383505
Tin coated copper coil kit 2.63 m2 - 1.74 l - 10 bar	(4)	20055205
Tin coated copper coil kit 4.54 m2 - 3.56 l - 10 bar	(4)	4383089
Tin coated copper coil kit 6.34 m2 - 5.10 l - 10 bar	(4)(5)	4383087
2.2 kW single-phase electric heater kit (300-500 lt) on 1"1/2 hole	(6)	4383271
3.0 kW single-phase electric heater kit (500 lt) on 1"1/2 hole	(6)	4383272
3.8 kW three-phase electric heater kit (500-800-1000 lt) on 1"1/2 hole	(6)	20020707
6.0 kW single-phase electric heater kit (1000 lt) on 1"1/2 hole	(6)	20079908
Solar exchanger 1,2 m² for RBC-HP 500	(6)	20203246
Solar exchanger 1,9 m² for RBC-HP 800-1000	(6)	20203245

- (1) Accessories for storage tanks of the RBC 1S and RBS 2S series.
- (2) Accessories for storage tanks 7200 HP 300.
 (3) Accessories for storage tanks 7200 HP 500 and 7200 HP 800.
 (4) To be ordered together with the storage tank model 7200/3F.
 (5) From 1500 litres (incl.)

- (6) Accessories for storage tanks RBC-HP 1S.

4. Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
20.8°	Hi, Comfort T100 Wi-Fi	(1)	20193354
a hance	Hi, Comfort T100	(2)	20193352

- With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
- For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

9

EXAMPLES OF A SYSTEM WITH MONOBLOC PRO WALL-HUNG HYBRID SYSTEM

BIVALENT HEATING SYSTEM WITH HEAT PUMP AND BOILER

0 <u>(</u> (m) ٠. **9**

. 6.5

Safety stub Condensate outlet System sensor + cascade sensor + storage tank sensor

Condensing boiler CONDEXA HPR / CONDEXA PRO Heat pump NXHM 010-16 or NXHM 018-030 Storage tank External sensor for boiler thermoregulation

LEGEND:

(<u>P</u>) <u></u> 4 \ ш (2)

Storage tank DHW storage tank

Condensing boiler CONDEXA HPR / CONDEXA PRO Heat pump NXHM 010-16 or NXHM 018-030

External sensor for thermoregulation (supplied with the PdC)

Safety stub Condensate outlet

8 7 6 5

System sensor

HOT AIR GENERATORS

BIVALENT HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP, BOILER AND SINGLE COIL STORAGE TANK

Hybrid systems-Floor-standing solution

PRO monobloc floorstanding hybrid system





- · Heating, cooling and production of DHW
- Smart management of multiple energy sources: condensing boiler, solar thermal and heat pump.
- Possibility of managing up to 2 independent zones

The PRO monobloc floor-standing hybrid system is a multi-energy hybrid system suitable for heating, summer cooling and the production of DHW. This system combines two main components:

- the professional floor-standing boiler. Depending on the power required by the system and the type, the gas generator can be using boilers in the STEEL PRO POWER, ALU PRO POWER or TAU UNIT ranges, in stand-alone or cascade versions, based on requirements. Output power can vary from a minimum of 34 kW to a maximum of 645 kW. Boilers in the STEEL PRO POWER range are modular heat generators housed in cabinets. The cabinet houses 2 to 4 condensing combustion units, with stainless steel heat exchanger and premix burner with low pollutant emissions. The power modulation ratio ranges from 1:10 up to 1:20. STEEL PRO POWER cabinets can be installed individually or can be coupled laterally to form a cascade. The boilers in the ALU PRO POWER range: 75 kW furnace independent element generators. The cabinet houses 2 to 8 condensing combustion units, with aluminium heat exchanger and premix burner with low pollutant emissions. The power modulation ratio ranges from 1:10 up to 1:40. ALU PRO POWER boilers can be installed individually or in a cascade configuration. TAU UNIT boilers are vertical single-heat exchanger thermal units, with high water content, with a premix burner with low pollutant emissions. The power modulation ratio is 1:10 for all models They can be installed either stand-alone or in a cascade configuration;
- the external monobloc heat pump which operates with environmentally friendly refrigerant R32, for heating, cooling and DHW preheating for domestic use. Depending on the total output selected for the boiler system, a heat pump can be selected from the NXHM 004-016 series in the stand-alone version or for a NXHM 018-030 in the stand-alone or cascade version. The NXHM 004-016 series heat pump is available in the 10, 12, 14 and 16 kW versions. There are 4 models (18 and 30 kW) of the NXHM 018-030 series heat pump available. The system can interface with a photovoltaic system to change its energy strategy, favouring the use of the electrical source when self-producing.

To complete the system, a wide range of accessories is available to ensure simple, fast installation and to meet different installation requirements.

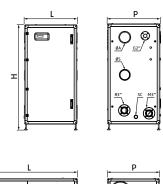
Available accessories can be found in the specific sections of the boilers and heat pumps used by the system.

FLOOR-STANDING BOILERS

TECHNICAL DATA

Description		Power kW			Efficiency - %		Energy	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	class	
MULTI-MOTOR THERMAL UNIT WITH STAIN	ILESS STEEL HEAT	EXCHANGER	?					
STEEL PRO POWER 114-2 P	111,4	123,8	13,7-114	97,7	108,6	109,4	-	20138572
STEEL PRO POWER 140-2 P	134	147,8	13,7-136	98,5	108,1	109,3	-	20138573
STEEL PRO POWER 180-2 P	176,6	194,8	19,4-180	98,1	108,3	108,9	-	20138574
STEEL PRO POWER 230-2 P	219,6	242,2	22,4-223,2	98,4	108,6	108,9	-	20138575
STEEL PRO POWER 270-2 P	258	284,2	26,3-262	98,5	108,3	109,4	-	20138576
STEEL PRO POWER 300-3 P	285,9	315,3	19,4-291	98,2	108,2	108,9	-	20138577
STEEL PRO POWER 345-3 P	329,4	363,6	22,4-334,8	98,4	108,6	108,9	-	20138578
STEEL PRO POWER 405-3 P	387	426,3	26,3-393	98,5	108,3	109,4	-	20138579
STEEL PRO POWER 460-4 P	439,2	484,4	22,4-446,4	98,4	108,6	108,9	-	20138580
STEEL PRO POWER 540-4 P	516	568,4	26,3-524	98,5	108,3	109,4	-	20138581
MULTI-MOTOR THERMAL UNIT WITH ALUM	IINIUM HEAT EXC	HANGER						
ALU 115 PRO POWER	112,2	119,6	15,0-115,0	97,6	104	108	-	20021781
ALU 150 PRO POWER	146,6	156	15,0-150,0	97,7	104	108	-	20020843
ALU 225 PRO POWER	220,1	234	15,0-225,0	97,8	104	108	-	20020844
ALU 300 PRO POWER	294	312	15,0-300,0	98	104	108	-	20020845
ALU 349 PRO POWER	342,4	363	15,0-349,0	98,1	104	108	-	20029287
ALU 375 PRO POWER	368,3	390	15,0-375,0	98,2	104	108	-	20020846
ALU 450 PRO POWER	442,4	468	15,0-450,0	98,3	104	108	-	20020847
ALU 525 PRO POWER	517,1	546	15,0-525,0	98,5	104	108	-	20020848
ALU 600 PRO POWER	591,6	624	15,0-600,0	98,6	104	108	-	20020849
SINGLE-MOTOR THERMAL UNIT WITH HIG	H WATER CONTEN	IT HEAT EXCH	IANGER IN STAIN	ILESS STEEL				
TAU UNIT 35	33,8	37	3,5-34,8	97,2	106,3	107,8	Α	20145133
TAU UNIT 50	48,4	54,5	4,9-49,9	97,1	109,2	109,7	Α	20144105
TAU UNIT 70	68	76,5	6,9-69,9	97,3	109,4	108,5	Α	20144106
TAU UNIT 100	97,5	109,2	9,9-99,9	97,5	109,2	108,6	-	20144107
TAU UNIT 115	112	125,4	11,5-115,0	97,4	109	108,7	-	20144108
TAU UNIT 140	136,8	152,3	14,0-140,0	97,8	108,6	108,8	-	20145135
TAU UNIT 190	185,8	205,2	19,0-190,0	97,8	108	108,8	-	20145136

OVERALL DIMENSIONS

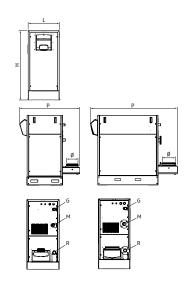


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Description	H mm	L mm	P mm	ØA mm	ØA1 mm	ØS mm	ØS1 mm	Net weight kg
STEEL PRO POWER 114-2 P	1800	900	890	160	-	160	-	270
STEEL PRO POWER 140-2 P	1800	900	890	160	-	160	-	270
STEEL PRO POWER 180-2 P	1800	900	890	160	-	160	-	280
STEEL PRO POWER 230-2 P	1800	900	890	160	-	160	-	300
STEEL PRO POWER 270-2 P	1800	900	890	-	300	160	300	350
STEEL PRO POWER 300-3 P	1800	1700	890	160	-	160	-	450
STEEL PRO POWER 345-3 P	1800	1700	890	160	-	160	-	490
STEEL PRO POWER 405-3 P	1800	1700	890	-	300	160	300	540
STEEL PRO POWER 460-4 P	1800	1700	890	160	-	160	-	560
STEEL PRO POWER 540-4 P	1800	1700	890	-	300	160	300	600

G = GAS M = DELIVERY R = RETURN SC = CONDENSATE OUTLET

RIELLO



Description	H mm	L mm	P mm	ø mm	Net weight kg
ALU 115 PRO POWER	1534,5	690	1264	150	270
ALU 150 PRO POWER	1534,5	690	1264	150	270
ALU 225 PRO POWER	1534,5	690	1264	200	280
ALU 300 PRO POWER	1534,5	690	1654	250	300
ALU 349 PRO POWER	1534,5	690	1654	250	350
ALU 375 PRO POWER	1534,5	690	1654	250	450
ALU 450 PRO POWER	1534,5	690	2103	300	490
ALU 525 PRO POWER	1534,5	690	2103	300	540
ALU 600 PRO POWER	1534,5	690	2298	300	560

TAU UNIT 35-140	
T	P
TAU UNIT 190	
T	P

Description	H mm	L mm	P mm	ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245
TAU UNIT 140	1885	800	973	110	400
TAU UNIT 190	1880	800	1250	160	450

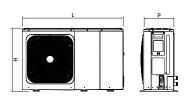
HEAT PUMPS

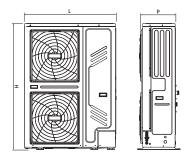
TECHNICAL DATA

Description		HEA	TING			CO0	LING		Electrical	Energy	Code
	Floo	Floor (1) Fan co		oils (2) Floor		r (3) Fan co		ils (4)	supply V/Ph/Hz	efficiency class	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5) ************************************	
AIR-WATER MONOBLOC SING	ILE PHASE										
NXHM 010	10,00	4,95	10,00	3,75	9,90	4,55	8,20	3,25	230/1/50	A++	20203410
NXHM 012	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	230/1/50	A++	20203649
NXHM 014	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	230/1/50	A++	20203650
NXHM 016	15,90	4,50	16,00	3,50	14,20	3,61	14,00	2,50	230/1/50	A++	20203651
AIR-WATER MONOBLOC THRE	E-PHASE										
NXHM 012T	12,10	4,95	12,30	3,70	12,00	3,95	11,50	2,75	400/3/50	A+++	20203652
NXHM 014T	14,50	4,60	14,10	3,60	13,50	3,61	12,40	2,50	400/3/50	A++	20203653
NXHM 016T	15,90	4,50	16,00	3,50	14,20	3,61	14,00	2,50	400/3/50	A++	20203655
NXHM 018T	18,00	4,70	18,00	3,50	18,50	4,75	17,00	3,05	400/3/50	A+++	20194140
NXHM 022T	22,00	4,40	22,00	3,40	23,00	4,60	21,00	2,95	400/3/50	A+++	20194141
NXHM 026T	26,00	4,08	26,00	3,10	27,00	4,30	26,00	2,70	400/3/50	A+++	20194142
NXHM 030T	30,10	3,91	30,00	2,90	31,00	4,00	29,50	2,55	400/3/50	A++	20194143

The performance is in accordance with standard EN 14511–3:2013 and refers to the following conditions:
(1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
(3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
(5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS





Description	H mm	L mm	P mm	Net weight kg
NXHM 010	865	1385	523	105
NXHM 012-016	865	1385	523	129
NXHM 012T-016T	865	1385	523	144

Description	H	L	P	Net weight
	mm	mm	mm	kg
NXHM 018-030T	1558	1129	528	177

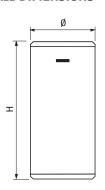
MATCHING INERTIAL STORAGE

TECHNICAL DATA

Description	Cylinder capacity l	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7000 ACI 200 PLUS	203	99	6	68	С	(1)	20028093
7000 ACI 300 PLUS	277	99	6	82	С	(1)	20028094
7000 ACI 500 PLUS	473	99	6	114	С	(2)	20028096
7000 ACI 800 PLUS	732	99	6	131	С	(2)	20137619
7000 ACI 1000 PLUS	855	99	6	139	С	(2)	20137620

(1) Tank with 4 fittings for use in series on boiler return in combination with hydraulic separator. (2) Tank with 6 connections to be used as shown in the diagrams at the end of this section.

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55
7000 ACI 500 PLUS	1840	700	100
7000 ACI 800 PLUS	1800	990	115
7000 ACI 1000 PHIS	2050	990	170

TERMINAL UNITS

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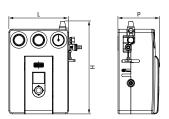
TECHNICAL DATA

RIELLO

Description	Connection and ball valve	Net area connectable collectors m²	Notes	Code
RSS MRS	Flow/Return	55	(1)	20116166

(1) Equipped with differential controller EVOSOL.

OVERALL DIMENSIONS



Description	H	L	P	Net weight
	mm	mm	mm	kg
RSS MRS	418	313	185	5,0

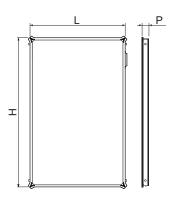
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation	Notes	Code	
	Gross m²	Net m²	η0	a1 W/m²K	a2 W/m²K²	temperature °C	temperature °C		
RPS 25/4 A	2,49	2,38	0,76	2,990	0,027	180	(1)	20201316	
RPS 20/4 A	2	1,9	0,76	2,990	0,027	180	(1)	20201319	

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 181.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/4 A	2020	1235	85	35
RPS 20/4 Δ	1625	1235	85	29

MATCHING DHW HEATERS

TECHNICAL DATA

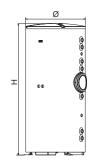
Description	Usable volume I	Coil surface heat pump m²	Lower coil exchange surface	Upper coil exchange power	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class	Code
			(m²)	(kW)				≋	
SINGLE COIL DOMESTIC HOT WATER TAN	KS				,				,
7200 300 HP	263	4,0	-	_	99	10	85	С	4383500
7200 500 HP	470	6,0	-	_	99	10	112	С	4383501
7200 800 HP	702	7,0	-	_	99	10	130	С	20136293
RBC-HP 500 1S	500	2,2	-	_	99	10	84	В	20201984
RBC-HP 800 1S	735	2,5	-	_	99	7	94	В	20202273
RBC-HP 1000 1S	890	2,9	-	_	99	7	101	В	20202861
DOUBLE COIL DOMESTIC HOT WATER TAN	IKS								
RBS 430 2S	430	-	1,4	31,4	99	10	75	В	20117339
RBS 550 2S	551	-	1,8	31,4	99	10	85	В	20116587
RBS 800 2S	731	-	2,3	50	99	7	94	В	20132268
RBS 1000 2S	883	-	2,7	50	99	7	101	В	20132269
7200/2-1500 HV PLUS	1390	-	3,4	47	99	8	162	С	20136237
7200/2-2000 HV PLUS	1950	-	4,6	73	99	8	186	С	20136239
FLANGED DOMESTIC HOT WATER TANKS	· · · · · · · · · · · · · · · · · · ·								,
7200/3F-1000 HV PLUS	955	-	-	_	99	10	142	С	20136274
7200/3F-1500 HV PLUS	1430	-	-	-	99	8	162	С	20136275
7200/3F-2000 HV PLUS	1990	-	-	-	99	8	186	С	20136277
7200/3F-3000 HV PLUS	2959	_	-	-	99	8	344	-	20052788

OVERALL DIMENSIONS

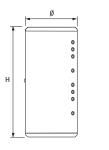
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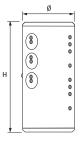


	RRI	C-HD 1S 150±5	oo RRC-	-HP 1S 800/100	0
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7200/2-1500/2000 HV PLUS 7200/3F-1000÷3000 HV PLUS





Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	220

(*) Insulation thickness.
Dimensions and weight with insulation.

Description	H mm	Ø mm	S (*) mm	Net weight kg
RBC-HP 500 1S	1793	755	52	150
RBC-HP 800 1S	1831	970	92	203
RBC-HP 1000 1S	2156	973	92	225

(*) Insulation thickness.
Dimensions and weight with insulation.

Description	H mm	ø mm	S (*) mm	Net weight kg
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Insulation thickness.
Dimensions and weight with insulation.

Description	H mm	ø mm	S (*) mm	Net weight kg
7200/2-1500 HV PLUS	2185	1200	100	325
7200/2-2000 HV PLUS	2470	1300	100	540
7200/3F-1000 HV PLUS	2205	990	100	190
7200/3F-1500 HV PLUS	2185	1200	100	305
7200/3F-2000 HV PLUS	2470	1300	100	325
7200/3F-3000 HV PLUS	2680	1450	100	543

(*) Insulation thickness.

Dimensions and weight with insulation.

GUIDE TO SYSTEM CONFIGURATION





- 1. SELECTION OF FLOOR-STANDING RANGE
- .1 STEEL PRO POWER boiler-Heat pump combinations
- 1.2 ALU PRO POWER boiler-Heat pump combinations
- 1.3 TAU UNIT boiler-Heat pump combinations
- 2. FLOOR-STANDING BOILER ACCESSORIES
- 2.1 Accessories for STEEL PRO POWER boilers
- 2.2 Accessories for ALU PRO POWER boilers
- 2.2 Accessories for TAU UNIT boilers
- 3. ACCESSORIES TO COMPLETE THE SYSTEM
- 3.1 Hydraulic accessories
- 3.2 Domestic hot water tank accessories
- 4. HI, COMFORT CONTROLS

1. SELECTION OF FLOOR-STANDING BOILER RANGE

	Boiler output power (80°/60°) [kW]	Stand alone	Number of cas	scading boiler
Boiler range	Boiler description	1	2	3
	STEEL PRO POWER 114-2 P	111		
	STEEL PRO POWER 140-2 P	134		
	STEEL PRO POWER 180-2 P	177		
	STEEL PRO POWER 230-2 P	220		
	STEEL PRO POWER 270-2 P	258		
STEEL PRO POWER	STEEL PRO POWER 300-3 P	286		
	STEEL PRO POWER 345-3 P	329		
	STEEL PRO POWER 405-3 P	387		
	STEEL PRO POWER 460-4 P	439		
	STEEL PRO POWER 540-4 P	516		
	STEEL PRO POWER SYSTEM 675		645	
	ALU 115 PRO POWER	112		
	ALU 150 PRO POWER	147		
	ALU 225 PRO POWER	220		
	ALU 300 PRO POWER	294		
ALU PRO POWER	ALU 349 PRO POWER	342		
	ALU 375 PRO POWER	368		
	ALU 450 PRO POWER	442		
	ALU 525 PRO POWER	517		
	ALU 600 PRO POWER	592		
	TAU UNIT 35	34	68	
	TAU UNIT 50	48	97	
	TAU UNIT 70	68	136	
AU UNIT	TAU UNIT 100	98	195	293
U UNIT	TAU UNIT 115	112	224	336
	TAU UNIT 140	137	274	410
	TAU UNIT 190	186	372	557

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TERMINAL UNITS

1.1 STEEL PRO BOILER-HEAT PUMP COMBINATIONS

The following combinations are those that guarantee the best energy performance. For the complete list of certified hybrid systems please refer to the company statement.



Combinations with stand-alone boilers

Description	Code	Nominal power (kW)	12 NXHM 30T (20194143)	9 2x NXHM 18T (20194140)	大 (20194144)	2x NXHM 26T (20194142)	20 2x NXHM 30T (20194143)	(04146102) T8T MHXN x8 74	9 3x NXHM 22T (20194141)	8 3× NXHM 26T (20194142)	20 3x NXHM 30T (20194143)	120,44	5x NXHM 30T (20194143)	90-00 6x NXHM 30T (20194143)
STEEL PRO POWER 114-2 P	20138572	111,4	•	•	•	•		•						
STEEL PRO POWER 140-2 P	20138573	134		•	•	•	•	•	•					
STEEL PRO POWER 180-2 P	20138574	176,6				•	•	•	•	•				
STEEL PRO POWER 230-2 P	20138575	219,6					•		•	•	•			
STEEL PRO POWER 270-2 P	20138576	258							•	•	•	•		
STEEL PRO POWER 300-3 P	20138577	285,9								•	•	•		
STEEL PRO POWER 345-3 P	20138578	329,4									•	•	•	
STEEL PRO POWER 405-3 P	20138579	387										•	•	•
STEEL PRO POWER 460-4 P	20138580	439,2											•	•
STEEL PRO POWER 540-4 P	20138581	516											•	•

Combinations with cascading boilers

Description	Code	Nominal power (kW)	60.03) LOS WXHW 301 (2019)
STEEL PRO POWER SYSTEM 675	20138576 + 20138579	645	•

1.2 ALU PRO POWER BOILER-HEAT PUMP COMBINATIONS

The following combinations are those that guarantee the best energy performance. For the complete list of certified hybrid systems please refer to the company statement.



Combinations with stand-alone boilers

Description	Code	Nominal power (kW)	о 1x NXHM 30T (20194143)	9 2x NXHM 18T (20194140)	ま 2× NXHM 22T (20194141)	2× NXHM 26T (20194142)	2x NXHM 30T (20194143)	74 (2019440)	9 3× NXHM 22T (20194141)	8 3× NXHM 26T (20194:142)	.0 .0 .0 .0 .0	120,44	5× NXHM 30T (20194143)	6x NXHM 30T (20194143)
ALU 115 PRO POWER	20021781	112,2	•	•	•	•		•						
ALU 150 PRO POWER	20020843	146,6			•	•	•	•	•					
ALU 225 PRO POWER	20020844	220,1					•		•	•	•			
ALU 300 PRO POWER	20020845	294								•	•	•		
ALU 349 PRO POWER	20029287	342,4									•	•	•	
ALU 375 PRO POWER	20020846	368,3										•	•	•
ALU 450 PRO POWER	20020847	442,4										•	•	•
ALU 525 PRO POWER	20020848	517,1											•	•
ALU 600 PRO POWER	20020849	591,6											•	•

1.3 TAU UNIT BOILER-HEAT PUMP COMBINATIONS

The following combinations are those that guarantee the best energy performance. For the complete list of certified hybrid systems please refer to the company statement.



Combinations with stand-alone boilers

Description	Code		1x NXHM 010 (20203410)	1x NXHM 012 (20203649)	1x NXHM 014 (20203650)	1x NXHM 016 (20203651)	1x NXHM 012T (20203652)	1x NXHM 014T (20203653)	1x NXHM 016T (20203655)	1x NXHM 18T (20194140)	1x NXHM 22T (20194141)	1x NXHM 26T (20194142)	1x NXHM 30T (20194143)	2x NXHM 18T (20194140)	2x NXHM 22T (20194141)	2x NXHM 26T (20194142)	2x NXHM 30T (20194143)	3x NXHM 18T (20194140)	3x NXHM 22T (20194141)	3x NXHM 26T (20194142)	3x NXHM 30T (20194143)
		Nominal power (kW)	10	12,1	14,5	15,9	12,1	14,5	15,9	18	22	26	30,1	36	44	52	60,2	54	66	78	90,3
TAU UNIT 35	20021781	112,2	•	•	•	•	•	•	•												
TAU UNIT 50	20020843	146,6		•	•	•	•	•	•	•	•										
TAU UNIT 70	20020844	220,1								•	•	•	•								
TAU UNIT 100	20020845	294										•	•	•	•						
TAU UNIT 115	20029287	342,4											•	•	•	•		•			
TAU UNIT 140	20020848	517,1												•	•	•	•	•	•		
TAU UNIT 190	20020849	591,6														•	•	•	•	•	•

Combinations with cascading boilers

Description	Code	Nominal power (kW)	1x NXHM 18T (20194140)	Z 1x NXHM 22T (20194141)	1x NXHM 26T (20194142)	20. 1x NXHM 30T (20194143)	ом 2x NXHM 18T (20194140)	ま 2x NXHM 22T (20194141)	2x NXHM 26T (20194:142)	0 2x NXHM 30T (20194143)	3x NXHM 18T (20194140)	9 3x NXHM 22T (20194141)	3x NXHM 26T (20194142)	.0 .0 .0 .0 .0	120,4	5x NXHM 30T (20194143)	6x NXHM 30T (20194143)
2x TAU UNIT 35	20145133	68	•	•	•	•											
2x TAU UNIT 50	20144105	96,8			•	•	•	•									
2x TAU UNIT 70	20144106	136					•	•	•	•	•	•					
2x TAU UNIT 100	20144107	195							•	•	•	•	•	•			
2x TAU UNIT 115	20144108	224								•		•	•	•			
2x TAU UNIT 140	20145135	273,6											•	•	•		
2x TAU UNIT 190	20145136	371,6														•	•
3x TAU UNIT 100	20144107	292,5											•	•	•		
3x TAU UNIT 115	20144108	336												•	•	•	
3x TAU UNIT 140	20145135	410,4													•	•	•
3x TAU UNIT 190	20145136	557,4														•	•

2. ACCESSORIES FOR FLOOR-STANDING BOILERS

When choosing the boiler accessories refer to the accessories sections of the selected range in relation to the type of installation selected, either STAND ALONE or cascade (IN LINE or BACK TO BACK).

2.1 Accessories for STEEL PRO POWER boilers

Description	Notes	Code
BOILER ACCESSORIES		
Adapter Ø50/80 mm		20145144
Air duct kit for fan/manifold connection Ø160 mm		20145141
Air duct kit for fan/manifold connection Ø300 mm		20145137
Air manifold for models Ø160 mm – for models with 2 thermal modules		20145185
Air manifold for models Ø160 mm – for models with 3/4 thermal modules		20145186
Air manifold for models Ø300 mm – for models with 2 thermal modules		20145187
Air manifold for models Ø300 mm - for models with 3/4 thermal modules		20145189
Hydraulic shut-off kit for single unit with 3-way valve with outlet to atmosphere	(1)	20145170
Safety kit	(2)	20071190
Relief valve 5.4 bar ØG.¾" F (up to 460 kW)	(=)	20023104
Relief valve 5.4 bar ØG.1" F (up to 580 kW)		20023106
Fuel shut-off valve (VIC) - ØG.1"	(3)(4)	20009486
Fuel shut-off valve (VIC) - ØG.1"1/2	(4)(5)	20009480
Fuel shut-off valve (VIC) - ØG.2"		
	(4)(6)	20009483
Fuel shut-off valve (VIC) - ØG.3"	(4)(7)	20061640
3"/2" flanged reduction kit (DN80/DN50)		20145184
Flange kit - 2" DN50 PN6 - Gas 2" F		20094187
Flange kit - 3" DN80 PN6 - 3" DN80 PN16		20161191
Gas adapter 2" - 1" for VIC valve		20147994
Adapter gas 2" - 1" ½ for VIC valve		20147990
Adapter kit for flanged VIC valve from DN80 to thread ØG.2"		20146852
Flanged reduction kit DN125/DN80		20145183
3" closing plug kit	(8)	20070903
5" closing plug kit	(8)	20070907
3" flange kit (to be welded)		20082190
5" flange kit (to be welded)		20082191
3" straight extensions kit with sumps	(9)(11)	20167872
5" straight extensions kit with sumps	(10)(11)	20167873
3" delivery stub kit		20145172
5" delivery stub kit		20145177
3" return stub kit		20145181
5" return stub kit		20145182
3" hydraulic separator fittings (up to 485 kW)		20145255
5" hydraulic separator fittings (up to 1310 kW)	(12)	20145260
LH technical cabinet with hydraulic separator (up to 485 kW)	(D)(12)	20145252
LH technical cabinet with hydraulic separator (up to 1310 kW)	(12)	20145254
RH technical cabinet with hydraulic separator (up to 485 kW)	(D)(12)	20145247
RH technical cabinet with hydraulic separator (up to 1310 kW)		20145250
RH/LH technical cabinet for housing 3" extension kit (270/485 kW)	(D)(13)(14)	20158562
RH/LH technical cabinet for housing 5" extension kit (580/1310 kW)	(D)(13)(14)	20158564
Technical cabinet air/flue gas manifold L = 900 mm Ø160 mm	(15)	20147030
Technical cabinet air/flue gas manifold L = 900 mm Ø300 mm	(15)	20147028
Technical cabinet air/flue gas manifold L = 1800 mm Ø160 mm	(15)	20157595
Technical cabinet air/flue gas manifold L = 1800 mm Ø300 mm	(15)	20157595
Lifting kit from above	(כו)	20157598
Wheel kit	(16)	
	(10)	20146845
Internal light kit for emergency and service conditions		20146846
Canopy kit for outdoor cabinet installation L = 900 mm		20146841
Canopy kit for outdoor cabinet installation L = 1800 mm		20146842
Kit IPX5D for display cover		20146843
Outdoor insulation kit for 3" blind flanges		20146953

Description	Notes	Code
Outdoor insulation kit for 5" blind flanges		20146954
External sensor		20132778
N2 neutraliser kit (up to 450 kW)		4031810
HN2 neutraliser kit (up to 280 kW)	(D1)	4031811
N3 neutraliser kit (450-1500 kW)		4031812
HN3 neutraliser kit (280-750 kW)	(D1)(17)	4031813
ACCESSORIES - CASCADE INSTALLATION		
Kit for cabinet connection in cascade configuration (Flue gas Ø300 - Air Ø300 - Condensate Ø50)		20157593
Spacer kit (150 mm) for cabinet connection in cascade configuration	(18)	20145237
Immersion sensor	(19)	1220599

(1) To be ordered in numbers equal to the number of units in the system.

- (2) Does not include the relief valve and VIC.
 (3) Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.

- (4) Intervention temperature 97 °C Capillary length 5 m.

 (5) Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar.

 (6) Recommended up to maximum output of 580 kW, calculated considering gas supply pressure = 20 mbar.

 (7) Recommended up to maximum output of 580 kW, calculated considering gas supply pressure = 20 mbar.
- (8) Kit for closing the unused side.
- (9) To be installed in the case of remote primary/secondary circuit interface with or without technical cabinet up to 485 kW. (10) To be installed in the case of remote primary/secondary circuit interface with or without technical cabinet up to 1310 kW.
- (11) Specific manifolds are provided on the outlet hose to house devices. (12) They contain the hydraulic separator inside.

- (13) Single or twin pump (14) They do not contain the pump.
- (15) To be used as indicated in the tables below.

- (16) To be used during installation.
 (17) Equipped with extraction pumps.
 (18) Includes 5" water connections Gas 3" Flue gas Ø300 Condensate Ø50.
 (19) Used for secondary and storage tank management.
- (D) Availability of material at our warehouse: 25 business days from the date of validation of the order. (D1) Availability of material at our warehouse: 30 business days from the date of validation of the order.
- NOTE: for the calculation of maximum permissible VIC power, with supply pressures other than 20 mbar, please contact the pre-sales service.

2.2 Accessories for ALU PRO POWER boilers

Description	Notes	Code
BOILER ACCESSORIES		
Interface kit up to 375 kW	(1)	20021753
Interface kit up to 600 kW	(1)	20021752
Primary circuit kit up to 300 kW	(2)	20021751
Primary circuit kit up to 600 kW	(2)	20021750
Safety kit	(3)	4030091
Relief valve 5.4 bar ØG.¾" F (up to 460 kW)	(4)	20023104
Relief valve 5.4 bar ØG.1" F (up to 580 kW)	(4)	20023106
Fuel shut-off valve (VIC) - ØG.1"	(5)(8)	20009486
Fuel shut-off valve (VIC) - ØG.1" ½	(5)(9)	20009482
Fuel shut-off valve (VIC) - ØG.2"	(5)(10)	20009483
Fuel shut-off valve (VIC) - ØG.3"	(5)(11)	20061640
DHW connection kit	(6)	20022521
Primary circuit pump MAGNA3 40-120 F	(7)	20183650
Primary circuit pump MAGNA3 65-120 F	(7)	20183652
Hydraulic separator up to 300 kW	(12)	20009385
Hydraulic separator up to 600 kW	(12)	20009431
N2 neutraliser kit (up to 450 kW)		4031810
HN2 neutraliser kit (up to 280 kW)	(D)	4031811
N3 neutraliser kit (450-1500 kW)		4031812
HN3 neutraliser kit (280-750 kW)	(D)(13)	4031813

- (1) Type A accessory.
- (2) Type B accessory.
 (3) Type F1 accessory. To be completed with relief valve (F2) and VIC fuel shut-off valve (F3).
- (5) Type F3 accessory. Operating temperature at 97 °C Capillary length 5 m.
- (6) Type C accessory.
- (7) Type G accessory.
 (8) Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.
- (9) Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar. (10) Recommended up to maximum output of 580 kW, calculated considering gas supply pressure = 20 mbar. (11) Recommended up to maximum output of 1310 kW, calculated considering gas supply pressure = 20 mbar.
- (12) Type D accessory.(13) Equipped with extraction pumps.
- (D) Availability of material at our warehouse: 30 business days from the date of validation of the order.
- NOTE: for the calculation of maximum permissible VIC power, with supply pressures other than 20 mbar, please contact the pre-sales service.

2.3 Accessories for TAU UNIT boilers

Description	Notes	Code
BOILER ACCESSORIES		
Safety kit	(1)	20180519
4.5 bar pressure gauge and relief valve set	(2)	20181867
4 bar pressure gauge and relief valve set	(3)	20181010
Thread reducer kit 2"F to 1"1/2 M	(4)	20182680
Thread reducer kit 2"F to 1"1/2 M	(5)	20154992
Fuel shut-off valve kit (VIC) - ØG.1" - TS=97 °C - Capillary L = 5 m	(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1"1/2 - TS=97 °C - Capillary L = 5 m	(7)	20009482
Flow meter DN15		20149998
Flow meter DN20		20149996
Flow meter DN25		20146343
Flow meter DN32		20146345
Expansion tank (only for TAU UNIT 35)		20154816
Circulation pump (only for TAU UNIT 35)		20154812
LPG conversion kit (TAU UNIT 35)		20145150
LPG conversion kit (TAU UNIT 50)		20144699
LPG conversion kit (TAU UNIT 70)		20144700
LPG conversion kit (TAU UNIT 100)		20144703
LPG conversion kit (TAU UNIT 115)		20144704
LPG conversion kit (TAU UNIT 140)		20206822
LPG conversion kit (TAU UNIT 190)		20194063
External sensor		20132778
Immersion sensor	(8)	1220599
Type C conversion kit (TAU UNIT 35-50)	(9)	20144759
Type C conversion kit (TAU UNIT 70)	(9)	20144760
Type C conversion kit (TAU UNIT 100-115)	(9)	20144761
Type C conversion kit (TAU UNIT 140)	(9)	20206220
Type C conversion kit (TAU UNIT 190)	(9)	20145154
Rear flue gas outlet conversion kit (TAU UNIT 35)	(10)	20160064
Rear flue gas outlet conversion kit (TAU UNIT 50-70)	(10)	20147234
Rear flue gas outlet conversion kit (TAU UNIT 100-115)	(10)	20147235
HN2 neutraliser kit (up to 280 kW)	(11)	4031811
N2 neutraliser kit (up to 450 kW)		4031810
N3 neutraliser kit (450-1500 kW)		4031812
HN3 neutraliser kit (280-750 kW)	(D)(11)	4031813

- (1) Includes stub with safety devices, excluding: relief valve set + pressure gauge, fuel shut-off valves and flow meter (to be ordered separately). (2) Requited for Tau Unit 50-70

- (3) Required for Tau Unit 100–190
 (4) Required when installing the kit for models Tau Unit 100 and 115.
 (5) Required when installing the kit for models Tau Unit 140 and 190.
 (6) Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.
 (7) Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar.
- (8) Used as primary sensor for cascade system management.
 (9) Accessories for split outlet, for concentric outlet, to complete the installation, please refer to the section "Flue gas outlet Systems" on page 411.
- (10) For each type, check the maximum equivalent lengths by consulting the data sheet and/or contacting the pre-sales service. For the flue gas outlet system, please refer to page 411.
- (11) Equipped with extraction pumps.
 (D) Availability of material at our warehouse: 30 business days from the date of validation of the order.
 NOTE: Tau Unit 140 and 190 do not require an accessory kit for LPG conversion.

RIELLO

3. OTHER ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Heat pump accessories

Description	Code
ELECTRIC ACCESSORIES	
Temperature sensor for balancing tanks or delivery temperature zone 2 or solar temperature	
DHW Diverter valve 1" 1/4 1" without temperature sensor	

3.2 DHW heater accessories

Denominazione commerciale	Notes	Codice n.
Electronic anode equipped with plug	(1)	20055206
Thermometer kit	(1)	20123850
Curve kit for electronic anode	(1)	20123851
Solar heat exchanger 0.8 m2 for HP 300	(2)	4383504
Solar heat exchanger 1.2 m2 for 500 HP and 800 HP	(3)	4383505
Tin coated copper coil kit 2.63 m2 – 1.74 l – 10 bar	(4)	20055205
Tin coated copper coil kit 4.54 m2 - 3.56 l - 10 bar	(4)	4383089
Tin coated copper coil kit 6.34 m2 - 5.10 l - 10 bar	(4)(5)	4383087

4. Hi, COMFORT CONTROLS

Room controls with capability of management through APP

Drawing	Description	Notes	Code
208	Hi, Comfort T100 Wi-Fi	(1)	20193354
	Hi, Comfort T100	(2)	20193352

⁽¹⁾ Accessories for storage tanks of the RBC 1S and RBS 2S series.
(2) Accessories for storage tanks 7200 HP 300.
(3) Accessories for storage tanks 7200 HP 500 and 7200 HP 800.
(4) To be ordered together with the storage tank model 7200/3F.

⁽⁵⁾ From 1500 litres (incl.)

⁽¹⁾ With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

9

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(2) 8 0 (m) Ф · = **BIVALENT HEATING SYSTEM WITH HEAT PUMP AND BOILER** 4 (7) (7)

LEGEND:

Condensing boiler STEEL PRO POWER / ALU PRO POWER / TAU UNIT Heat pump NXHM 010–16 or NXHM 018–030

Safety stub Condensate outlet System sensor

7.6.5

External sensor for thermoregulation (supplied with the PdC) Storage tank

EXAMPLES OF A SYSTEM WITH MONOBLOC PRO FLOOR-STANDING HYBRID SYSTEM

BIVALENT HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP, BOILER AND SINGLE COIL STORAGE TANK

TERMINAL UNITS

(<u>C</u>) -10 \odot 0 40.0.0 1 (D)

External sensor for thermoregulation (supplied with the PdC) Condensing boiler STEEL PRO POWER / ALU PRO POWER / TAU UNIT Heat pump NXHM 010–16 or NXHM 018–030 Storage tank DHW storage tank

Safety stub Condensate outlet System sensor 7.6.7.8

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LEGEND:

HYBRID SYSTEMS WITH SPLIT HEAT PUMP



WALL-HUNG SPLIT HEAT PUMPS

WALL-HUNG BOILERS
COMBINED AND HEATING
ONLY BOILERS



RES WALL-HUNG SPLIT HYBRID SYSTEM

page 70

Hybrid systems-Wall-hung solution

RES wall-hung split hybrid system





- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat nump
- Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- the wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- the heat pump: wall-hung split air-water type, available in versions ranging from 4 to 16 kW, with wall-hung indoor unit for heating and domestic hot water production. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -25°C.
- The indoor unit houses the main components of the hydronic system, high surface plate exchanger and high-efficiency electronic circulation pump.
- the hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEIs0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.

WALL-HUNG BOILERS

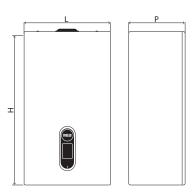
TECHNICAL DATA

Description	Heat output Heating/Domestic Water	Workin	g efficiency	Domestic water class		Notes	Code	
	min-max kW							
INSTANTANEOUS COMBINED HEATING	AND DOMESTIC WATER VERS	ON						
FAMILY HM 25 KIS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	14,3	А	A	(1)(3)	20206147
FAMILY HM 30 KIS	2,7÷25,0 / 2,7÷30,0	106,0	109,6	17,2	А	А	(1)(3)	20206148
FAMILY HM 35 KIS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	20,0	А	А	(1)(3)	20206149
FAMILY HM CONNECT 25 KIS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	14,3	Α	A	(1)(4)	20206152
FAMILY HM CONNECT 35 KIS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	20,0	Α	A	(1)(4)	20206153
RESIDENCE HM 25 KIS	2,5÷20,0 / 2,5÷25,0	106,5	108,8	14,3	А	Α		20205317
RESIDENCE HM 30 KIS	3,0÷25,0 / 3,0÷30,0	106,0	108,8	17,2	Α	A		20205318
RESIDENCE HM 35 KIS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	20,0	Α	A		20205319
HEATING-ONLY VERSION								
FAMILY HM 25 IS	1,9÷20,0 / 1,9÷25,0	106,5	109,7	-	Α	-		20206150
FAMILY HM 35 IS	2,7÷32,0 / 2,7÷34,9	105,3	109,7	-	Α	_		20206151
FAMILY HM CONNECT 35 IS	2,7÷32,0 / 2,70÷34,90	105,3	109,7	-	А	_		20206154
RESIDENCE HM 20 IS	2,5÷20,0 / 2,5÷20,0	106,5	108,8		Α	-		20205320
RESIDENCE HM 30 IS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	-	Α	-	(1)(2)	20205321
BUILT-IN UNIT								
IN-WALL INSTALLATION BOX M							(2)	20082310
IN-WALL INSTALLATION BOX S							(3)	20161604

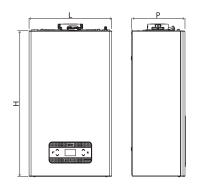
The external probe is not included in the boiler supply, but is available as an accessory with code 1220559. To create a wall-mounted hybrid system, it is necessary to replace the boiler display with the code 20193921. To create a wall-mounted hybrid system, it is necessary to replace the boiler display with the code 20205322. Boilers already equipped with T300 hybrid system control panel, code 20205322.

OVERALL DIMENSIONS

RIELLO



Description	H mm	L mm	P mm	Net weight kg
FAMILY HM 25 KIS / CONNECT	740	420	275	29
FAMILY HM 30 KIS	740	420	275	30
FAMILY HM 35 KIS / CONNECT	740	420	275	30
FAMILY HM 25 IS	740	420	275	28
FAMILY HM 35 IS / CONNECT	740	420	275	29



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HM 25 KIS	740	420	275	29
RESIDENCE HM 30 KIS	740	420	275	30
RESIDENCE HM 35 KIS	740	420	275	30
RESIDENCE HM 20 IS	740	420	275	28
RESIDENCE HM 30 IS	740	420	275	29

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Description	H mm	L mm	P mm	Net weight kg
IN-WALL INSTALLATION BOX M	1223	654	281	21
IN-WALL INSTALLATION BOX S	1223	654	255	18

HEAT PUMPS

TECHNICAL DATA

Description	HEATING				COOLING E			Electrical power		efficiency	Code	
	Floo	r (1)	Fan co	ils (2)	Floo	r (3)	Fan co	ils (4)	supply class V/Ph/Hz		155	
	Nominal power kW	СОР	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER) (5)	(6)	
THE CODES BELOW ALWAYS REF	ER TO TH	Е СОМВІ	NATION O	F INDOO	R AND OL	JTDOOR I	UNITS		,			
SET FAMILY SPRINT 4 KW M	4,25	5,20	4,35	3,80	4,50	5,55	4,70	3,45	220-240/1/50	A+++	A++	20205753
SET FAMILY SPRINT 6 KW M	6,20	5,00	6,35	3,75	6,55	4,90	7,00	3,00	220-240/1/50	A+++	A++	20205755
SET FAMILY SPRINT 8 KW M	8,30	5,20	8,20	3,95	8,40	5,05	7,40	3,38	220-240/1/50	A+++	A++	20205757
SET FAMILY SPRINT 10 KW M	10,00	5,00	10,00	3,80	10,00	4,80	8,20	3,30	220-240/1/50	A+++	A++	20205760
SET FAMILY SPRINT 12 KW M	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	220-240/1/50	A+++	A++	20205766
SET FAMILY SPRINT 14 KW M	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	220-240/1/50	A+++	A++	20205769
SET FAMILY SPRINT 12 KW T	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	380-415/3/50	A+++	A++	20205778
SET FAMILY SPRINT 14 KW T	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	380-415/3/50	A+++	A++	20205780

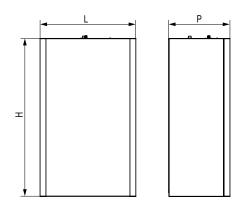
The performance is in accordance with standards EN 14511:2013 and EN 14825:2016.

- (1) (2) (3) (4) (5) (6)

- performance is in accordance with standards En (4511:2013 and En (4825:2016.)
 External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
 External air temperature 35°C; water inlet/outlet 23/18°C.
 External air temperature 35°C; water inlet/outlet 23/18°C.
 External air temperature 35°C; water inlet/outlet 12/17°C.
 Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
 Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

OVERALL DIMENSIONS

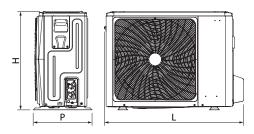
INDOOR UNIT



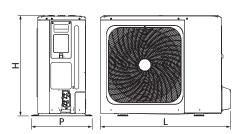
Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
SPRINT WH S	790	421	270	37
SPRINT WH M	790	421	270	37
SPRINT WH L	790	421	270	39
OUTDOOR UNIT				
HP EXTERNAL UNIT 004	1008	712	426	58
HP EXTERNAL UNIT 006	1008	712	426	58
HP EXTERNAL UNIT 008	1118	865	523	75
HP EXTERNAL UNIT 010	1118	865	523	75
HP EXTERNAL UNIT 012	1118	865	523	97
HP EXTERNAL UNIT 014	1118	865	523	97
HP EXTERNAL UNIT 012T	1118	865	523	112
HP EXTERNAL UNIT 014T	1118	865	523	112

OUTDOOR UNIT

MODELS 004-006



MODELS 008-010-012-014



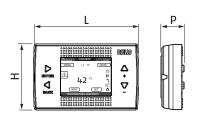
REC10MH MANAGEMENT CONTROL

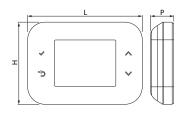
TECHNICAL DATA

RIELLO

Description	Electrical power supply V/Ph/Hz	Notes	Code
REC10MH Management control	230/1/50		20193921
T300 Hi, Comfort Management control	230/1/50		20205322

OVERALL DIMENSIONS





Description	H	L	P	Net weight
	mm	mm	mm	kg
REC10MH MANAGEMENT CONTROL	90	146	32	0,15

Description	H	L	P	Net weight
	mm	mm	mm	kg
T300 Hi, Comfort MANAGEMENT CONTROL	95	132	95	0,15

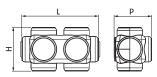
COMBINABLE HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITH SEPARATOR					
BAG ³ HYBRID 1D	1 direct zone	230/1/50	57	(1)(4)	20130805
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(4)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(2)(4)	20130807
IN-WALL INSTALLATION BOX	-	-	_	(3)	20130808

- Equipped as standard with limit thermostat for low temperature systems. Mixed zone equipped as standard with limit thermostat for low temperature systems.
- Galvanised sheet in-wall installation box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
- Supplied without in-wall installation box.

OVERALL DIMENSIONS

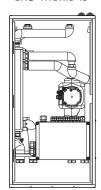


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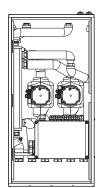
Description	H	L	P	Net weight
	mm	mm	mm	kg
HBOX - 1D HYBRID DISTRIBUTION MODULE	107	187	92	0.9

Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

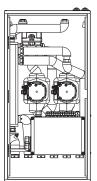
BAG³ HYBRID 1D







BAG3 HYBRID 1D+1M



ACCESSORIES

Description	Notes	Code
HBOX adjustable bypass valve	(1)	20182807

(1) Mandatory accessory when using HBOX - 1D hybrid distribution module code 20165227 with variable flow systems.

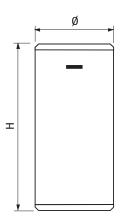
INERTIAL STORAGE TANKS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered I	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class <u>≅</u>	Code no.
7000 ACI 60 PLUS	57	99	6	34	В	20090056
7000 ACI 120 PLUS	123	99	6	50	В	20082450

OVERALL DIMENSIONS

RIELLO



Description	H mm	ø mm	Net weight kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35

Dimensions and weight with insulation.

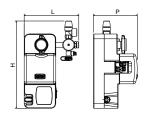
SOLAR HYDRAULIC UNITS TO BE MATCHED

TECHNICAL DATA

Description	Connections and ball valves	Net surface connectable collectors* m²	Notes	Code
RSS R	Return-only	20	(1)	20116168

(1) Compatible with PWM and ON/OFF control.

OVERALL DIMENSIONS



Description	H	L	P	Net weight
	mm	mm	mm	kg
RSS R	364	228	183	4.1

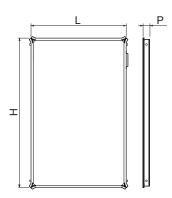
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values refe	Values referred to the opening area			Notes	Code
	Gross m²	Net m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C		
RPS 25/4 A	2,49	2,38	0,76	2,990	0,027	180	(1)	20201316
RPS 20/4 A	2	1,9	0,76	2,990	0,027	180	(1)	20201319

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 181.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/4 A	2020	1235	85	35
RPS 20/4 A	1625	1235	85	29

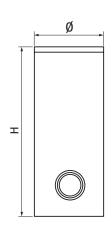
DHW HEATERS TO BE MATCHED

TECHNICAL DATA

Description	Volume delivered (I)	Lower coil exchange surface (m²)	Upper coil exchange surface (m²)	Upper coil exchange power (kW)*	Single coil exchange surface (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy efficiency class	Code
7200 300 HP	263	4.0	_	-	96	99	10	85	С	4383500
7200 500 HP	470	6.0	-	-	156	99	10	112	С	4383501
RBC-HP 150 1S	170	0,85	-	-	6,3	99	10	55	В	20202962
RBC-HP 200 1S	210	1,38	-	-	8,8	99	10	58	В	20203095
RBC-HP 300 1S	305	1,7	-	-	12,4	99	10	68	В	20201786
RBC-HP 500 1S	500	2,2			15,8	99	10	84	В	20201984
RBS 200 2S	208	0.7	0.7	16.1	-	99	10	62	В	20116675
RBS 300 2S	301	1.0	0.8	23.0	-	99	10	69	В	20116335
RBS 430 2S	430	1.4	1.0	31.4	-	99	10	75	В	20117339

With Δt = 20°C and primary temperature of 80 °C.

OVERALL DIMENSIONS



RBC-HP 1S 150÷500

Description	H mm	Ø mm	S (*) mm	Net weight kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166

(*) Insulation thickness.
Dimensions and weight with insulation.

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RBC-HP 1S 800/1000

Description	H mm	ø mm	S (*) mm	Net weight kg
RBC-HP 150 1S	1138	604	52	62
RBC-HP 200 1S	1354	604	52	78
RBC-HP 300 1S	1838	604	52	103
RBC-HP 500 1S	1793	755	52	150

(*) Insulation thickness.
Dimensions and weight with insulation.

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Description	H mm	ø mm	S (*) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	146

(*) Insulation thickness. Dimensions and weight with insulation.

RIELLO

GUIDE TO SYSTEM CONFIGURATION



- BOILER-HEAT PUMP COMBINATIONS
- WALL-HUNG BOILER ACCESSORIES
- 3. ACCESSORIES TO COMPLETE THE SYSTEM
- 3.1 Hydraulic accessories
- 3.2 Secondary circuit management
- 3.3 Hybrid distribution module accessories
- 3.4 DHW heater accessories
- 3.5 Solar circuit management
- 4. HI, COMFORT CONTROLS

1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

Description	Code	Bu	ilt-in u	ınit		gement itrol		Pos	sible h	eat pu	mp cor	nbinat	ions		Hydra	ulic di	stribut	ion (1)
		Built-in unit M	Built-in unit	Built-in unit S	Hi, Comfort T300	REC10MH management control	SET FAMILY SPRINT 4 KW M	SET FAMILY SPRINT 6 KW M	SET FAMILY SPRINT 8 KW M	SET FAMILY SPRINT 10 KW M	SET FAMILY SPRINT 12 KW M	SET FAMILY SPRINT 14 KW M	SET FAMILY SPRINT 12 KW T	SET FAMILY SPRINT 14 KW T	HBOX – 1D MODULE	BAG³ HYBRID 1D	BAG³ HYBRID 2D	BAG³ HYBRID 1D+1M
		20082310	20161604	20082309	20205322	20193921	20205753	20205755	20205757	20205760	20205766	20205769	20205778	20205780	20165227	20130805	20130806	20130807
INSTANTANEOUS COMBINED HEAT	ING AND DOME	STIC W	ATER \	/ERSIC	ON								1					
FAMILY HM 25 KIS	20206147		•		•		•	•	•						•	•	•	•
FAMILY HM 30 KIS	20206148		•		•		•	•	•	•	•		•		•	•	•	•
FAMILY HM 35 KIS	20206149		•		•		•	•	•	•	•	•	•	•	•	•	•	•
FAMILY HM CONNECT 25 KIS	20206152		•		(1)		•	•	•						•	•	•	•
FAMILY HM CONNECT 35 KIS	20206153		•		(1)		•	•	•	•	•	•	•	•	•	•	•	•
RESIDENCE HM 25 KIS	20205317		•		•		•	•	•						•	•	•	•
RESIDENCE HM 30 KIS	20205318		•		•		•	•	•						•	•	•	•
RESIDENCE HM 35 KIS	20205319		•		•		•	•	•						•	•	•	•
HEATING-ONLY VERSION																		
FAMILY HM 25 IS	20206150		•		•		•	•	•						•	•	•	•
FAMILY HM 35 IS	20206151		•		•		•	•	•	•	•	•	•	•	•	•	•	•
FAMILY HM CONNECT 35 IS	20206154		•		(1)		•	•	•	•	•	•	•	•	•	•	•	•
RESIDENCE HM 20 IS	20205320		•		•		•	•	•						•	•	•	•
RESIDENCE HM 30 IS	20205321		•		•		•	•	•	•	•		•		•	•	•	•

The following combinations ensure the best energy performance; for the complete list of certified hybrid systems, refer to the company declaration.

Boiler already equipped with T300 control.

2. WALL-HUNG BOILER ACCESSORIES

Description	Notes	Code
FAMILY HM - FAMILY HM CONNECT BOILER	110103	
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation	(.)	20191887
Air Filter	(2)	20190324
Hydraulic low fittings cover	(=)	20191519
Dummy boiler RESIDENCE HM		20209806
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit	(2)	20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Nell probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)	(1)	20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Antifreeze heaters -15 °C	(5)	20191888
External probe kit	ζ= /	1220559
imit thermostat for low temperature installations		1220639
Split connection system kit Ø80 mm		20217921
080 mm clapet kit for pressurized collective flues		20164664
080/125 mm concentric clapet kit for pressurized collective flues		20164662
Vall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
/ertical collector Ø60/100 mm		20129177
/ertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475
RESIDENCE HM BOILER	,	
n-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit		20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		2003564
Vell probe for remote heater (for heating only version)		1220599
Texible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)	1,,	20133516
onnection kit with heating system and gas cocks (for IS models)		20133517
onnection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Split connection system kit Ø80 mm		20217921
980 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175

Description	Notes	Code
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475
Antifreeze heaters -15 °C	(5)	20191888
External probe kit		1220559
Limit thermostat for low temperature installations		1220639

- Unit supplied with door. Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
- Ideal board for managing additional circulator or zone valve and alarm remote kit.
 Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of boilers with previous boilers with Riello standard hydraulic con-
- The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177 (5)
- Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

Description	Notes	Code
1" Y water filter		20175281
50 litre inertial buffer tank	(1)	20171999

(1) Inertial storage cannot be installed horizontally below the heat pump.

3.2 Secondary circuit management

Description	Notes	Code
1" DHW diverting valve with heater probe		20175064
Immersion probe	(1)	1220599
1st direct/mixed area control		20132795
Control of 2 nd and 3 rd direct/mixed zone		20132796

(1) Used for secondary circuit and heater management.

Note: for ambient temperature adjustment, refer to section SYSTEM ACCESSORIES - THERMOSTATS AND PROGRAMMABLE THERMOSTATS

3.3 Hybrid distribution module accessories

Description	Notes	Code
Cock kit on system and heat pump side		20131752
Photovoltaic system input card	(1)	20165741
Diverting valve kit for BAG³ HYBRID		20131755
Diverting valve kit for HBOX		20168920
Solar interface kit		20131756

(1) To be used only if the diverting valve (code 20131755) is not present in BAG^3 HYBRID configuration.

3.4 DHW heater accessories

Description	Notes	Code
Electronic anode equipped with plug	(1)	20055206
Thermometer kit	(1)	20123850
Curve kit for electronic anode	(1)	20123851
Solar heat exchanger 0.8 m² for HP 300	(2)	4383504
Solar heat exchanger 1.2 m² for 500 HP and 800 HP	(3)	4383505
Solar mixing diverting valve kit	(4)	20025113

- RBC 1S and RBS 2S series heater accessories.
- 7200 300 HP heater accessories. 7200 500 HP and 7200 800 HP heater accessories.
- Mandatory in case of domestic water heater installation and KIS model boiler.

3.5 Solar circuit management

Description	Notes	Code
RSS R solar hydraulic unit	(1)(2)(3)	20116168
Solar interface kit	(4)	20131756

- The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together. Net surface area of collectors to be connected 20 m². Connections and ball valves on the return line. (1) (2) (3) (4)

(4) It allows viewing the operating status of the solar system on the REC10 I system interface.

Note: if collectors with net surface >20 m² are installed, refer to section SOLAR THERMAL SYSTEM AND HEATERS - ACCESSORIES - HYDRAULIC UNITS AND SOLAR ADJUSTMENTS.

Note: for selection of accessories for solar panels, refer to section SOLAR THERMAL SYSTEM AND HEATERS - SOLAR PANELS.

4. Hi, COMFORT CONTROLS

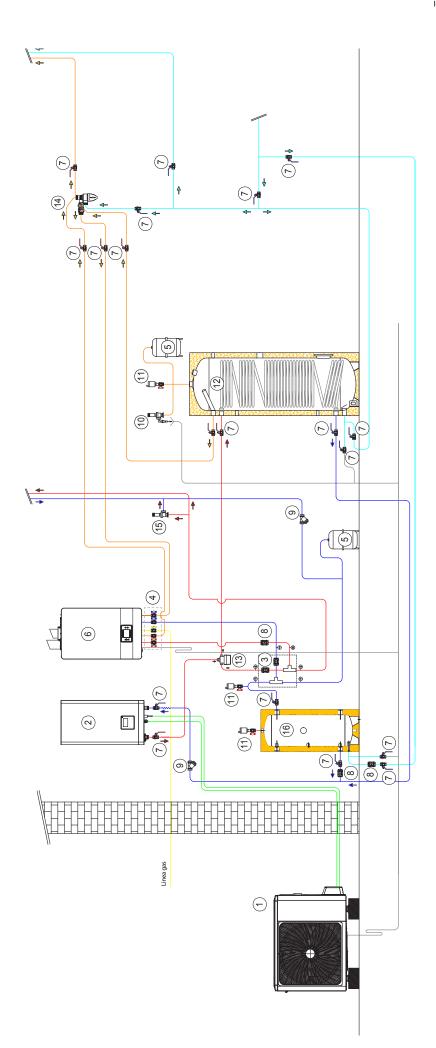
Room controls with capability of management through APP

Drawing	Description	Notes	Code
20 R	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Kinte	Hi, Comfort G100-W		20193355
(e)	Hi, Comfort G100-R		20193356

- With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

ONE-ZONE HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP AND BOILER



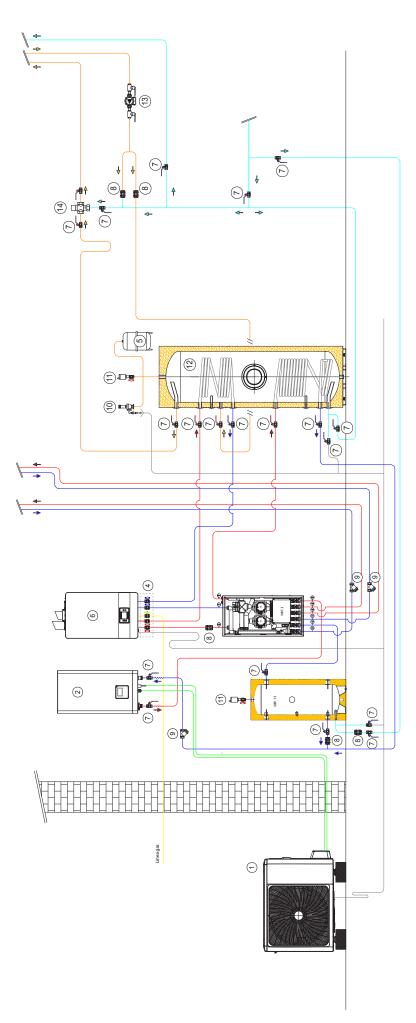
- By-pass adjustable valve Intertial storage tank 5 5
 - Degasser DHW tank DHW dmixing –diverting valve DHW divertig valve

Expansion vessel
Boiler with circulator and expansion vessel
Shut-off valve
Non-return valve
Filter

0 8 4 9 2

Safety Valve

- 4 3 5 4 9



14 DHW mixing valve15 Intertial storage tank

Degasser DHW tank DHW recirculation pump

Safety Valve

Shut-off boiler valves kit Expansion vessel Boiler with circulator and expansion vessel Shut-off valve

8 4 6 2 4

Heat pump (HP) external unit Indoor HP unit with circulator and expansion

Hydraulic module with circulators and

vesse

hydraulic compensator

Non-return valve

Filter

SOLAR THERMAL AND CYLINDERS

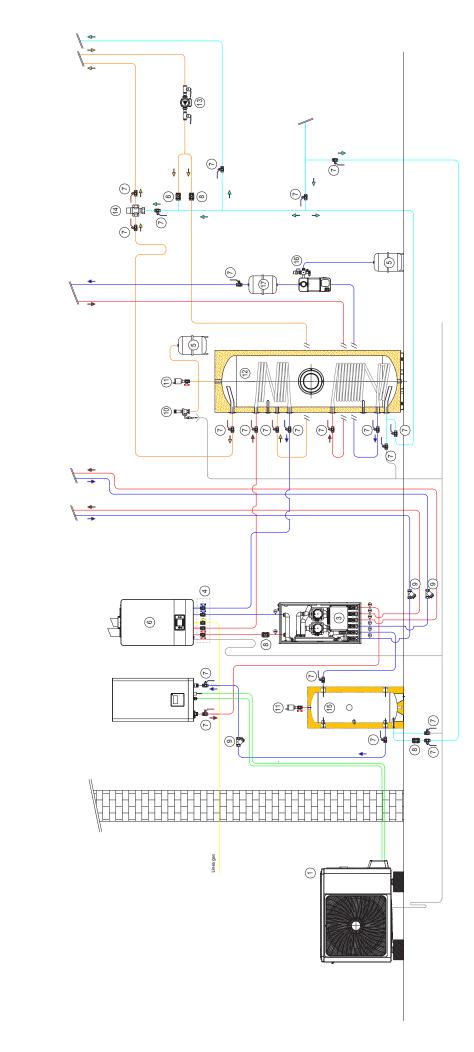
CENTRALIZED HEATING

AIR CONDITIONING

MONOVALENT TWO-ZONE HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP, BOILER AND SOLAR SYSTEM

MONOVALENT THREE-ZONE HEATING AND DHW PRODUCTION SYSTEM COMBINED WITH SPLIT HEAT PUMP, BOILER AND SOLAR SYSTEM

TERMINAL UNITS



- 14 15 16
- DHW mixing valve Intertial storage tank Solar station with pump and electronic

- **Expansion vessel**

Shut-off boiler valves kit

- Boiler with circulator and expansion vessel Shut-off valve Non-return valve 4 2 9 7 8

Filter Safety Valve

- Degasser DHW tank DHW recirculation pump



HEAT PUMPS

HEAT PUMPS

89

HEAT PUMPS



FOR CENTRAL HEATING AND DHW PRODUCTION FROM LOW TO MEDIUM POWER

		WALL-HUNG
		WALL-HONG
NXHM 004-016 NXHM 004-016 NXHM 012-016 T		FAMILY SPRINT R32 Family Sprint R32 004-016 Family Sprint R32 012-016T
NXHM 018-030 NXHM 018-030T		
	NXHM 004-016 NXHM 012-016 T page 90 NXHM 018-030 NXHM 018-030T	NXHM 004-016 NXHM 012-016 T page 90 NXHM 018-030 NXHM 018-030T

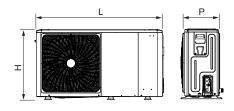
RIELLO

TERMINAL UNITS

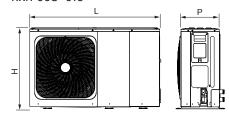
Monobloc air-water heat pumps

NXHM 004-016

NXH 004-006



NXH 008-016







• High efficiency inverter heat pump in R32

Description	Н	L	P	Net weight
	mm	mm	mm	kg
NXHM 004	718	1295	426	86
NXHM 006	718	1295	426	86
NXHM 008	865	1385	523	105
NXHM 010	865	1385	523	105
NXHM 012/012T	865	1385	523	129/144
NXHM 014/014T	865	1385	523	129/144
NXHM 016/016T	865	1385	523	129/144

NXHM is a high energy efficient residential hydronic heat pump for heating, cooling and possible production of domestic hot water for domestic use.

The unit operates on ecological R32 refrigerant ensuring not only low Global Warming Potential (GWP) and CO, emission, but also powerful performance with high energy efficiency at all times.

NXHM is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates). NXHM is available in 10 different models with heating capacity from 4.2 to 15.9 kW.

- DC-Inverter technology with Twin-Rotary compressor which modulates the power necessary to perfectly match the real needed load
- High COP and EER (all NXHM heat pumps is compliant with the highest standards in term of energy efficiency)
- HP Keymark certified performance
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +65 °C
- Easy and quick installation
- Silent operation
- Wired controller is included which is able to manage completely heating/ cooling/ domestic hot water system
- The control can manage up to 6 units in cascade system (1 master & 5 slaves) even with different power input
- Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.

TECHNICAL DATA

Description		Hea	ting			Coc	ling		Electrical	Energy	Code		
	Floo	or (1)	Fan coils (2)		Floo	r (3)	Fan coils (4)		Fan coils (4)		supply V/Ph/Hz	efficiency class	
	Nominal power kW	COP	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)			
AIR-WATER MONOBLO	C SINGLE PH	HASE											
NXHM 004	4.20	5.10	4.30	3.80	4.50	5.50	4.70	3.45	230/1/50	A++	20203404		
NXHM 006	6.35	4.95	6.30	3.70	6.50	4.80	7.00	3.00	230/1/50	A++	20203407		
NXHM 008	8.40	5.15	8.10	3.85	8.30	5.05	7.45	3.35	230/1/50	A++	20203409		
NXHM 010	10.00	4.95	10.00	3.75	9.90	4.55	8.20	3.25	230/1/50	A++	20203410		
NXHM 012	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	230/1/50	A++	20203649		
NXHM 014	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	230/1/50	A++	20203650		
NXHM 016	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	230/1/50	A++	20203651		
AIR-WATER MONOBL	OC THREE-	PHASE											
NXHM 012T	12.10	4.95	12.30	3.70	12.00	3.95	11.50	2.75	400/3/50	A++	20203652		
NXHM 014T	14.50	4.60	14.10	3.60	13.50	3.61	12.40	2.50	400/3/50	A++	20203653		
NXHM 016T	15.90	4.50	16.00	3.50	14.20	3.61	14.00	2.50	400/3/50	A++	20203655		

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u. Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C. Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.
- (2) (3) (4) (5)

ACCESSORIES

Description	Notes	Code
CYLINDER		
7200 300 HP (NXHM 004-008)		4383500
7200 500 HP (NXHM 010-016)		4383501
RBC-HP 150 1S		20202962
RBC-HP 200 1S		20203095
RBC-HP 300 1S		20201786
RBC-HP 500 1S		20201984
PUFFER		
7000 ACI 120 PLUS		20082450
7000 ACI 60 PLUS		20090056
Inertial storage of 50 liters	(8)	20171999
HYDRAULIC SYSTEM ACCESSORY		
1" DHW diverting valve with heater probe	(3)	20168920
1" - 1 1/4" DHW diverting valve	(2)(4)(9)	20203742
Y water filter 1"	(7)	20175281
MECHANICAL ACCESSORY		
Solar heat exchanger 0.8 m² for RBC-HP 1S 150-300		20203248
Solar heat exchanger 1.2 m² for RBC-HP 1S 500		20203246
Solar heat exchanger 0.8 m² for 300 HP		4383504
Solar heat exchanger 1.2 m² for 500 HP		4383505
ELECTRICAL ACCESSORY		
REC10MH remote control		20193921
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature		20194933
1.5 kW single-phase electric heater kit	(1)	4383270
3.0 kW single-phase electric heater kit	(3)(5)(6)	20182272
3.8 kW three-phase electric heater kit	(1)	20020707
Integrative electrical resistance 1PH-3PH 2-6 kW	(6)	20182292

- (1) (2) (3)
- The accessory must be ordered together with the base unit and is supplied not installed with finished product availability. The accessory must be used in combination with the temperature probe included in the heat pump, or accessory 20194933. Only in combination with REC10MH remote control.
- (4) (5) (6) (7) (8) Mandatory in case of domestic water heater installation.

- The kit includes the three-way diverting valve for DHW with heater probe. Includes electrical power box and activation relay.

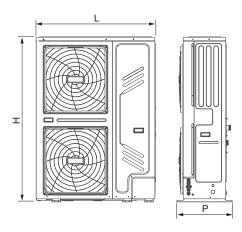
 The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.
- The buffer tank cannot be installed horizontally below the heat pump.
- Accessory managed by the machine interface.

RIELLO

TERMINAL UNITS

Monobloc air-water heat pumps

NXHM 018-030



Description	H mm	L mm	P mm	Net weight kg
NXHM 018T-030T	1558	1129	528	177





• High efficiency inverter heat pump in R32

NXHM 018-030 is the ideal solution for any type of residential and commercial applications for heating and cooling, with the possibility of producing domestic hot water at high energy efficiency.

The unit operates on ecological R32 refrigerant ensuring not only low Global Warming Potential (GWP) and CO, emission, but also powerful performance with high energy efficiency at wide operating range. NXHM 018-030 is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates). The unit is monobloc so all components are included inside to facilitate installation and operation.

NXHM 018-030 is supplied with the control, and is available in 4 different models with heating capacity from 18 to 30 kW.

- DC-Inverter technology with Twin-Rotary compressor which modulates the power necessary to perfectly match the real needed load
- High COP and EER (all NXHM heat pumps is compliant with the highest standards in term of energy efficiency)
- HP Keymark certified performance
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +60 °C
- Easy and quick installation
- Silent operation
- Wired controller is included which is able to manage completely heating/ cooling/ domestic hot water system
- The control can manage up to 6 units in cascade system (1 master & 5 slaves) even with different power input
- Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.

TECHNICAL DATA

Description	Floo	Heating Co Floor (1) Fan coils (2) Floor (3)						Fan coils (4)		oling Fan coils (4)		Energy efficiency class	Code
	Nominal power kW	COP	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)			
THREE PHASE MONOBL	OC AIR - W	ATER							·				
NXHM 018T	18.00	4.70	18.00	3.50	18.50	4.75	17.00	3.05	400/3/50	A++	20194140		
NXHM 022T	22.00	4.40	22.00	3.40	23.00	4.60	21.00	2.95	400/3/50	A++	20194141		
NXHM 026T	26.00	4.08	26.00	3.10	27.00	4.30	26.00	2.70	400/3/50	A+	20194142		
NXHM 030T	30.10	3.91	30.00	2.90	31.00	4.00	29.50	2.55	400/3/50	A+	20194143		

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.

 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.

- (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

ACCESSORIES

Description	Notes	Code
CYLINDER		
RBC-HP 800 1S		20202273
RBC-HP 1000 1S		20202861
7200 HP 500		4383501
7200 HP 800		20136293
PUFFER		
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
Inertial storage of 100 liters		20142300
MECHANICAL ACCESSORY		
Solar heat exchanger 1,2 m ² (7200 500-800 HP)		4383505
Solar heat exchanger 1,9 m² for RBC-HP 1S 800 - 1000		20203245
Support bracket kit		20175145
ELECTRICAL ACCESSORY		
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature		20194933
1" & 1 ¼" DHW diverting valve without temperature probe	(3)	20203742
1.5 kW single-phase electric heater kit	(1)(2)	4383270
2.2 kW single-phase electric heater kit	(1)(2)	4383271
3.0 kW single-phase electric heater kit	(1)(2)	4383272
3.8 kW three-phase electric heater kit	(1)(2)	20020707
Integrative electrical resistance 1PH-3PH 2-6 kW		20182292

- (1) The accessory must be ordered together with the base unit and is supplied not installed with the availability of the finished product.(2) Not for 7000 ACI 60 PLUS.(3) The accessory must be used in combination with the temperature probe included in the heat pump, or accessory 20194933.

TERMINAL UNITS

RIELLO

Wall-hung split air-water heat pumps

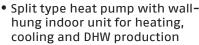
Family Sprint R32

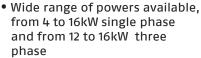






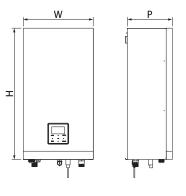


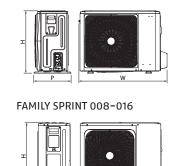




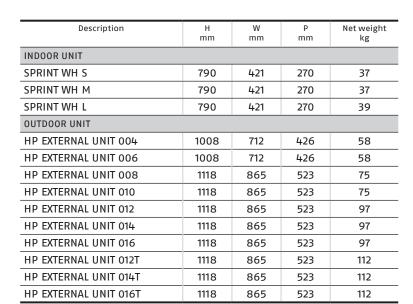


- High efficiency up to A+++ class (A7°C; W35°C)
- Leaving water temperature in heating: 65°C





FAMILY SPRINT 004-006



Family Sprint is a split system heat pump, with wall hung indoor unit, for heating, cooling and domestic hot water production. The system consists of an outdoor unit, with R32 gas, connected through refrigerant pipes to an indoor wall hung unit. The outdoor unit is compact and quite, includes a Twin Rotary DC inverter compressor and works even with an outdoor air temperature of -25°C.

The indoor unit, with a depth of only 270 mm, is available in two versions: with and without back up heater on board. The back up heater on mono phase internal units has a power of 3 kW, while on tri phase internal units of 9 kW. The control panel, provided on the internal unit, has a wide backlit display, with intuitive icons and a multilingual menu. On Family Sprint you can activate Silent Mode function, in two different levels, who can reduce sound pressure down to 39 db(A) (sound pressure of 4 kW size, on Silent Mode level 2).

TECHNICAL DATA

Description		HEA	TING			C00	LING		Electrical supply		fficiency	Code
	Floor	r (1)	Fan coi	ils (2)	Floor	(3)	Fan coils (4)		V/Ph/Hz	Cla	ass	
	Nominal power kW	СОР	Nominal power kW	СОР	Nominal power kW	EER	Nominal power kW	EER		(5)	(6)	
NITHOUT ON BOARD BACK UP HEATER												
SET FAMILY SPRINT 4 KW M	4,25	5,20	4,35	3,80	4,50	5,55	4,70	3,45	220-240/1/50	A+++	A++	20205753
SET FAMILY SPRINT 6 KW M	6,20	5,00	6,35	3,75	6,55	4,90	7,00	3,00	220-240/1/50	A+++	A++	20205755
SET FAMILY SPRINT 8 KW M	8,30	5,20	8,20	3,95	8,40	5,05	7,40	3,38	220-240/1/50	A+++	A++	20205757
SET FAMILY SPRINT 10 KW M	10,00	5,00	10,00	3,80	10,00	4,80	8,20	3,30	220-240/1/50	A+++	A++	20205760
SET FAMILY SPRINT 12 KW M	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	220-240/1/50	A+++	A++	20205766
SET FAMILY SPRINT 14 KW M	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	220-240/1/50	A+++	A++	20205769
SET FAMILY SPRINT 16 KW M	16,00	4,50	16,00	3,60	14,20	3,61	14,00	2,45	220-240/1/50	A+++	A++	20205773
SET FAMILY SPRINT 12 KW T	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	380-415/3/50	A+++	A++	20205778
SET FAMILY SPRINT 14 KW T	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	380-415/3/50	A+++	A++	20205780
SET FAMILY SPRINT 16 KW T	16,00	4,50	16,00	3,60	14,20	3,61	14,00	2,45	380-415/3/50	A+++	A++	20205782
WITH ON BOARD BACK UP HEATER												
SET FAMILY SPRINT 4 KW M BH	4,25	5,20	4,35	3,80	4,50	5,55	4,70	3,45	220-240/1/50	A+++	A++	20205754
SET FAMILY SPRINT 6 KW M BH	6,20	5,00	6,35	3,75	6,55	4,90	7,00	3,00	220-240/1/50	A+++	A++	20205756
SET FAMILY SPRINT 8 KW M BH	8,30	5,20	8,20	3,95	8,40	5,05	7,40	3,38	220-240/1/50	A+++	A++	20205759
SET FAMILY SPRINT 10 KW M BH	10,00	5,00	10,00	3,80	10,00	4,80	8,20	3,30	220-240/1/50	A+++	A++	20205764
SET FAMILY SPRINT 12 KW M BH	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	220-240/1/50	A+++	A++	20205767
SET FAMILY SPRINT 14 KW M BH	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	220-240/1/50	A+++	A++	20205770
SET FAMILY SPRINT 16 KW M BH	16,00	4,50	16,00	3,60	14,20	3,61	14,00	2,45	220-240/1/50	A+++	A++	20205776
SET FAMILY SPRINT 12 KW T BH	12,10	4,95	12,30	3,80	12,00	4,00	11,60	2,75	380-415/3/50	A+++	A++	20205779
SET FAMILY SPRINT 14 KW T BH	14,50	4,70	14,20	3,65	13,50	3,61	12,70	2,55	380-415/3/50	A+++	A++	20205781
SET FAMILY SPRINT 16 KW T BH	16,00	4,50	16,00	3,60	14,20	3,61	14,00	2,45	380-415/3/50	A+++	A++	20205783

- The performance is in accordance with standards EN 14511 and EN 14825.

 (1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.

 (2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.

 (3) External air temperature 35°C; water inlet/outlet 23/18°C.

 (4) External air temperature 35°C; water inlet/outlet 12/7°C.

 (5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.

 (6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

 Note: "BH" sets are provided with an on board back up heater of 3 kW, in mono phase units, and 9 kW, in tri phase units.

SET CODES MATCHING TABLE

Description	Set code	Internal unit code	External unit code
WITHOUT ON BOARD BACK UP HEATER	·		,
SET FAMILY SPRINT 4 KW M	20205753	20199004	20198970
SET FAMILY SPRINT 6 KW M	20205755	20199004	20198971
SET FAMILY SPRINT 8 KW M	20205757	20199005	20198972
SET FAMILY SPRINT 10 KW M	20205760	20199005	20198973
SET FAMILY SPRINT 12 KW M	20205766	20199006	20198974
SET FAMILY SPRINT 14 KW M	20205769	20199006	20198975
SET FAMILY SPRINT 16 KW M	20205773	20199006	20198976
SET FAMILY SPRINT 12 KW T	20205778	20199006	20198977
SET FAMILY SPRINT 14 KW T	20205780	20199006	20198978
SET FAMILY SPRINT 16 KW T	20205782	20199006	20198979
WITH ON BOARD BACK UP HEATER			
SET FAMILY SPRINT 4 KW M BH	20205754	20198799	20198970
SET FAMILY SPRINT 6 KW M BH	20205756	20198799	20198971
SET FAMILY SPRINT 8 KW M BH	20205759	20198963	20198972
SET FAMILY SPRINT 10 KW M BH	20205764	20198963	20198973
SET FAMILY SPRINT 12 KW M BH	20205767	20198967	20198974
SET FAMILY SPRINT 14 KW M BH	20205770	20198967	20198975
SET FAMILY SPRINT 16 KW M BH	20205776	20198967	20198976
SET FAMILY SPRINT 12 KW T BH	20205779	20198969	20198977
SET FAMILY SPRINT 14 KW T BH	20205781	20198969	20198978
SET FAMILY SPRINT 16 KW T BH	20205783	20198969	20198979

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SUGGESTED CYLINDER AND HEAT PUMP MATCHING Heat pumps Family Sprint Description Code 4 M 6 M 8 M 10 M 12 M 14 M 16 M 12 T 14 T 16 T 20205755 20205766 20205778 20205753 20205757 20205760 20205769 20205773 20205780 20205782 RBC-HP 150 1S 20202962 • • **RBC-HP 200 1S** • 20203095 RBC-HP 300 1S 20201786 • **RBC-HP 500 1S** 20201984 • • •

To select the correct size of the cylinder, please refer to the data in the technical sheet of the product and to the specific requirement of the system.

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20202273

20202861

ACCESSORIES

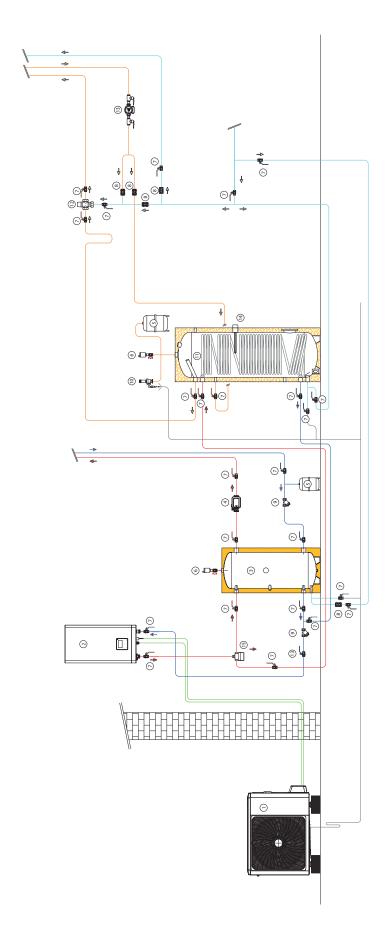
RBC-HP 800 1S

RBC-HP 1000 1S

Description	Notes	Code
CYLINDER		
7200 300 HP		4383500
7200 500 HP		4383501
RBC-HP 150 1S		20202962
RBC-HP 200 1S		20203095
RBC-HP 300 1S		20201786
RBC-HP 500 1S		20201984
PUFFER		
7000 ACI 120 PLUS		20082450
7000 ACI 60 PLUS		20090056
Inertial storage of 50 liters	(8)	20171999
HYDRAULIC SYSTEM ACCESSORY		
1" DHW diverting valve with heater probe	(3)	20168920
1" - 1 ½" DHW diverting valve	(2)(4)(9)	20203742
Y water filter 1"	(7)	20175281
MECHANICAL ACCESSORY		
Solar heat exchanger 0.8 m² for RBC-HP 1S 150-300		20203248
Solar heat exchanger 1.2 m² for RBC-HP 1S 500		20203246
Solar heat exchanger 0.8 m ² for 300 HP		4383504
Solar heat exchanger 1.2 m² for 500 HP		4383505
ELECTRICAL ACCESSORY		
REC10MH remote control		20193921
Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature		20194933
1.5 kW single-phase electric heater kit	(1)	4383270
3.0 kW single-phase electric heater kit	(3)(5)(6)	20182272
3.8 kW three-phase electric heater kit	(1)	20020707
Integrative electrical resistance 1PH-3PH 2-6 kW	(6)	20182292

- The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.
- The accessory must be used in combination with the temperature probe included in the heat pump, or accessory 20194933.
 - Only in combination with REC10MH remote control.
- Mandatory in case of domestic water heater installation.
- The kit includes the three-way diverting valve for DHW with heater probe. (5)
- (6)Includes electrical power box and activation relay.
- The water filter is included with the NXHM heat pump. If necessary, it should only be used for NXHM 004 and 006 models.
- The buffer tank cannot be installed horizontally below the heat pump.
- Accessory managed by the machine interface.

Bivalent heating, cooling and dhw production system SYSTEM DIAGRAMS



DHW mixer DHW recirculation pump Electric heater DHW diverting valve 5 4 4 5

Heat pump (HP) external unit Heat pump indoor unit with circulator and reser-- ~

Shut-off valve Non-return valve

6. 8. 9. 11.

Deaerator

Storage tank Zone pump Expansion reservoir w 4 r

Adjustable bypass valve DHW heater

AUGUST 2024 EDITION



WALL-HUNG BOILERS

CONDENSING WALL-HUNG BOILERS

SYSTEM COMPLEMENTARY ITEMS

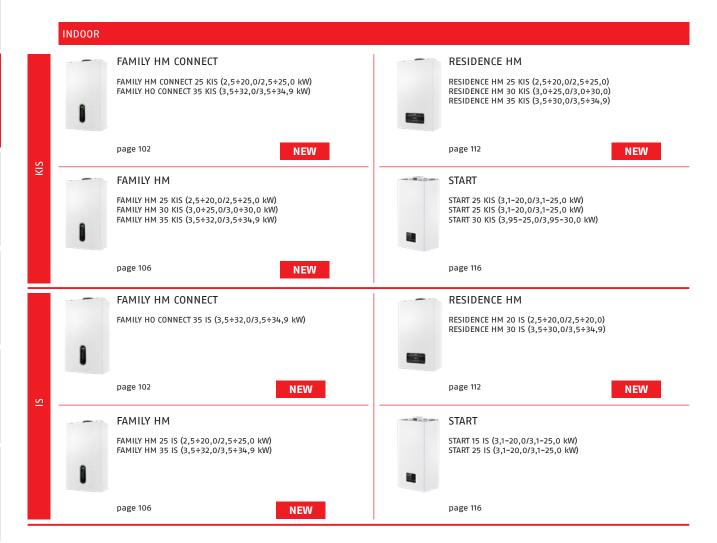
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TERMINAL UNITS

CONDENSING WALL-HUNG BOILERS





Heating/Domestic Water heat output

- KIS Combined, Heating and Instant DHW production
- IS Heating only
 (*) Availability until stocks last.

CONDENSING WALL-HUNG BOILERS



INDOOR



FAMILY AQUA CONDENS

FAMILY AQUA CONDENS 3.5 BIS (3,5-35,0 kW)

page 110



BIS

START AQUA CONDENS

START AQUA CONDENS 25/45 BIS (6,0-25,0 kW) START AQUA CONDENS 25/60 BIS (6,0-25,0 kW)

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Heating/Domestic Water heat output BIS Combined, Heating and DHW production with boiler

TERMINAL UNITS





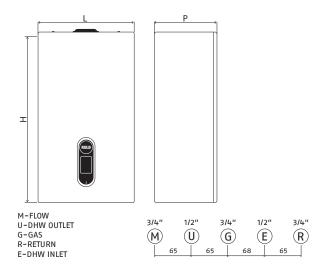




- Wide modulation ratio 1:13 high efficiency and reduced consumptions
- High efficiency thanks to the new adaptive combustion, the wide modulation ratio and the renewed exchangers
- New advanced interface fully touch, fullcolor, advanced interface with guided user
- Excellent dhw comfort quick set-point attainment and temperature stability
- Very silent operation down to 45 db
- Elegant and compact design for easy integrability in home interiors
- IoT READY

Wall-hung condensing boilers

Family HM Connect NEW



Description	H mm	L mm	P mm	Net weight kg
FAMILY HM CONNECT 25 KIS	740	420	275	29
FAMILY HM CONNECT 35 KIS	740	420	275	30
FAMILY HM CONNECT 35 IS	740	420	275	29

The new FAMILY HM CONNECT range of condensing boilers offers users a combination of comfort and savings. Riello proposes a multi energy boiler designed for current and future needs, guaranteeing a reduction in electrical consumption, gas consumption and emissions, with the possibility of remote control.

- Increased sanitary heat exchanger with high performance produced by Riello.
- Self-adaptive electronic combustion control ACC (Active Combustion Control).
- Modern and linear design with under-boiler lower connection cover available as an accessory for optimal aesthetic integration.
- Sanitary specific electronic functions: sanitary delay, anti-pendulum function and smart fan.
- Digital modulating circulator 6m low consumption (IEE 0,20). High head circulator 7 m available as an accessory.
- Hydraulic group with DIN standard sequence.
- Low noise up to 45 dB.
- 93% seasonal efficiency.
- Modern and intuitive touchscreen HMI with representative icons and capacitive buttons with acoustic "buzzer" confirmation.
- 2.8" display with multilingual icons and texts.
- 9 litre expansion tank.
- Easy to install and a wide range of accessories available as options.
- IPX5D electrical protection.
- Gas transformation (Propane Air, LPG) selectable with electronic parameter.
- Fixing template and power supply cable provided.
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory.
- Flue gases flange with dedicated flue system.

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TECHNICAL DATA

Heat input Heating/DHW	Useful efficiency		Useful efficiency DHW production		Energy efficiency class		Notes	Code
min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	.000	7			
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
2,5÷20,0 / 2,5÷25,0	106,5	108,8	14,3	A	А	(1)	20206152	
3,5÷30,0 / 3,5÷34,9	105,8	108,7	20,0	Α	Α	(1)	20206153	
ONLY HEATING VERSION								
3,5÷30,0 / 3,5÷34,9	105,8	108,7	-	Α	-	(1)	20206154	
	Heating/DHW min-max kW OUS DOMESTIC HOT WATER 2,5÷20,0 / 2,5÷25,0 3,5÷30,0 / 3,5÷34,9	Heating/DHW min-max kW Pn (50°/30°C)% OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 3,5÷30,0 / 3,5÷34,9 105,8	Heating/DHW min-max kW Pn (50°/30°C)% (return 30°C)% OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 108,8 3,5÷30,0 / 3,5÷34,9 105,8 108,7	Heating/DHW production min-max kW Pn (50°/30°C) % (return 30°C) % ΔT 25° I/min OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 108,8 14,3 3,5÷30,0 / 3,5÷34,9 105,8 108,7 20,0	Heating/DHW production min-max kW (50°/30°C) % (return 30°C) % 1/min OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 108,8 14,3 A 3,5÷30,0 / 3,5÷34,9 105,8 108,7 20,0 A	Heating/DHW production min-max kW Pn (50°/30°C) % (return 30°C) % I/min ΔT 25° I/min OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 108,8 14,3 A 3,5÷30,0 / 3,5÷34,9 105,8 108,7 20,0 A A	Heating/DHW production min-max kW Pn (50°/30°C) % (return 30°C) % ΔT 25° I/min ΔT 25° I/min OUS DOMESTIC HOT WATER VERSION 2,5÷20,0 / 2,5÷25,0 106,5 108,8 14,3 A A (1) 3,5÷30,0 / 3,5÷34,9 105,8 108,7 20,0 A A (1)	

⁽¹⁾ The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
MECHANICAL ACCESSORIES		
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit		20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Well probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
COMPLEMENTARY ACCESSORIES		
Antifreeze heaters -15 °C	(5)	20191888
External probe kit		1220559
Limit thermostat for low temperature installations		1220639
SPECIFIC FLUES (*)		
Split connection system kit Ø80 mm		20217921
Ø80 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475

Unit supplied with door. Ideal to avoid introducing impurities from the intake air into the exchanger and burner.

Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

AUGUST 2024 EDITION

Ideal board for managing additional circulator or zone valve and alarm remote kit.
Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of FAMILY HM CONNECT boilers with previous boilers with Riello standard hydraulic connection sequence.

⁽⁵⁾ The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible) included in the offer.

Dedicated flue gases accessories, compatible with the FAMILY HM CONNECT flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.

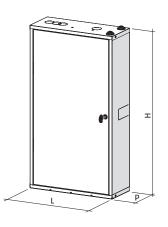
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HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- (1) Supplied without in-wall installation box
 (2) Equipped as standard with limit thermostat for low temperature systems
- (a) Mixed zone equipped as standard with limit thermostat for low temperature systems
 (4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID

OVERALL DIMENSION



Description	H mm	L mm	P mm	Net weight kg
BAG3 HYBRID 1D	797	400	160	17
BAG3 HYBRID 2D	797	400	160	18
BAG3 HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG ³ HYBRID system side and heat pump	20131752
Diverting valve kit for BAG3 HYBRID	20131755

HI, COMFORT ADVANCED ENVIRONMENT CONTROL

Multi-zone room control and System Manager with remote management capability via APP Hi, Comfort.

Image	Description	Note	Code
	POWER SUPPLY REC 10H		20134478

- (1) Wi-fi as standard
- (2) Compatible with NXHP and NXHM heat pumps
 (3) For lengths longer than 30m, add code 20134478
 (4) Device provided with gateway

ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS

Description	Note	Code
Solar interface kit	(1)	20168672
First zone management kit (MIX or DIR zone)	(1)(2)	20132795
Additional zone management kit (MIX or DIR zone)	(1)(2)(3)	20132796

- (1) To be provided in combination with Hi, Comfort T300.
- (2) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG3 Hybrid.
 (3) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Note	Code
CONTROL OF THE PROPERTY OF THE	Hi, Comfort T200	(1)(2)	20211852
(Singr	Hi, Comfort T100 Wi-Fi	(3)	20193354
50.8	Hi, Comfort T100	(4)	20193352
A. Cardon	Hi, Comfort G100-W		20193355
(e)	Hi, Comfort G100-R		20193356

- (*) Only ON/OFF connection with BAG3 HYBRID.
 (1) Room thermostat for multi-room applications, to be provided in combination with Hi, Comfort T300.
 (2) Hi, Comfort T200 combined in RF. to Hi, Comfort T300 allows zone management.
 (3) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (4) For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary fo internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

Smart key with possible management via APP

Image	Description	Note	Code
	Hi, Comfort K100		20168501

WATER-HEATERS

BLUEDGE

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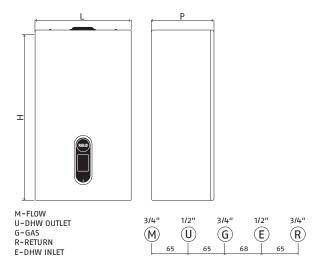




- Wide modulation ratio 1:13 high efficiency and reduced consumptions
- High efficiency thanks to the new adaptive combustion, the wide modulation ratio and the renewed exchangers
- New advanced interface fully touch, fullcolor, advanced interface with guided user tour
- Excellent dhw comfort quick set-point attainment and temperature stability
- Very silent operation down to 45 db
- Elegant and compact design for easy integrability in home interiors
- IoT READY

Wall-hung condensing boilers

Family HM NEW



Description	H mm	L mm	P mm	Net weight kg
FAMILY HM 25 KIS	740	420	275	29
FAMILY HM 30 KIS	740	420	275	30
FAMILY HM 35 KIS	740	420	275	30
FAMILY HM 25 IS	740	420	275	28
FAMILY HM 35 IS	740	420	275	29

The new FAMILY HM CONNECT range of condensing boilers offers users a combination of comfort and savings. Riello proposes a multi energy boiler designed for current and future needs, guaranteeing a reduction in electrical consumption, gas consumption and emissions, with the possibility of remote control.

- Increased sanitary heat exchanger with high performance produced by Riello.
- Self-adaptive electronic combustion control ACC (Active Combustion Control).
- Modern and linear design with under-boiler lower connection cover available as an accessory for optimal aesthetic integration.
- Sanitary specific electronic functions: sanitary delay, anti-pendulum function and smart fan.
- Digital modulating circulator 6m low consumption (IEE 0,20). High head circulator 7 m available as an accessory.
- Hydraulic group with DIN standard sequence.
- Low noise up to 45 dB.
- 93% seasonal efficiency.
- Modern and intuitive touchscreen HMI with representative icons and capacitive buttons with acoustic "buzzer" confirmation.
- 2.8" display with multilingual icons and texts.
- 9 litre expansion tank.
- Easy to install and a wide range of accessories available as options.
- IPX5D electrical protection.
- Gas transformation (Propane Air, LPG) selectable with electronic parameter.
- Fixing template and power supply cable provided.
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory.
- Flue gases flange with dedicated flue system.

TECHNICAL DATA

Description	Heat input Heating/DHW	Useful efficiency				DHW production	- 03	fficiency ass	Notes	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	.000	رِيّ				
COMBI HEATING AND INSTANTANE	OUS DOMESTIC HOT WATER	VERSION								
FAMILY 25 KIS	2,5÷20,0 / 2,5÷25,0	106,5	108,8	14,3	А	А	(1)	20206147		
FAMILY 30 KIS	3,0÷25,0 / 3,0÷30,0	106,0	108,8	17,2	А	Α	(1)	20206148		
FAMILY 35 KIS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	20,0	А	Α	(1)	20206149		
ONLY HEATING VERSION										
FAMILY HM 25 IS	2,5÷20,0 / 2,5÷20,0	106,5	108,8	-	А	_	(1)	20206150		
FAMILY HM 35 IS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	-	Α	-	(1)	20206151		

⁽¹⁾ The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
MECHANICAL ACCESSORIES		
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit		20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Well probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
COMPLEMENTARY ACCESSORIES		
Antifreeze heaters -15 °C	(5)	20191888
External probe kit		1220559
Limit thermostat for low temperature installations		1220639
SPECIFIC FLUES (*)		
Split connection system kit Ø80 mm		20217921
Ø80 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475

Unit supplied with door.

 ⁽²⁾ Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
 (3) Ideal board for managing additional circulator or zone valve and alarm remote kit.
 (4) Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of FAMILY HM boilers with previous boilers with Riello standard hydraulic connection sequence.

The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting

accessory kits (not flexible) included in the offer.

Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

Dedicated flue gases accessories, compatible with the FAMILY HM flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.

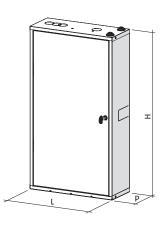
RIELLO

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- (1) Supplied without in-wall installation box
 (2) Equipped as standard with limit thermostat for low temperature systems
- (a) Mixed zone equipped as standard with limit thermostat for low temperature systems
 (4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID

OVERALL DIMENSION



Description	H mm	L mm	P mm	Net weight kg
BAG3 HYBRID 1D	797	400	160	17
BAG3 HYBRID 2D	797	400	160	18
BAG3 HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG ³ HYBRID system side and heat pump	20131752
Diverting valve kit for BAG3 HYBRID	20131755

HI, COMFORT ADVANCED ENVIRONMENT CONTROL

Multi-zone room control and System Manager with remote management capability via APP Hi, Comfort.

Image	Description	Note	Code
18.5° ©	Hi, Comfort T300	(1)(2)(3)(4)	20205322
	POWER SUPPLY REC 10H		20134478

- (1) Wi-fi as standard
- (2) Compatible with NXHP and NXHM heat pumps (3) For lengths longer than 30m, add code 20134478
- (4) Device provided with gateway

ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS

Description	Note	Code
Solar interface kit	(1)	20168672
First zone management kit (MIX or DIR zone)	(1)(2)	20132795
Additional zone management kit (MIX or DIR zone)	(1)(2)(3)	20132796

- (1) To be provided in combination with Hi, Comfort T300.
 (2) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG3 Hybrid.
- (3) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Note	Code
Light of the state	Hi, Comfort T200	(1)(2)	20211852
Sing.	Hi, Comfort T100 Wi-Fi	(3)	20193354
50.8	Hi, Comfort T100	(4)	20193352
Nines)	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

(*) Only ON/OFF connection with BAG3 HYBRID.
(1) Room thermostat for multi-room applications, to be provided in combination with Hi, Comfort T300.
(2) Hi, Comfort T200 combined in RF. to Hi, Comfort T300 allows zone management.
(3) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
(4) For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary fo internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

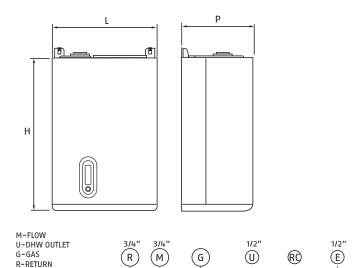
Smart key with possible management via APP

Image	Description	Note	Code
	Hi, Comfort K100		20168501

TERMINAL UNITS

Condensing wall-hung boilers

Family Aqua Condens



Description	H	L	P	Net weight
	mm	mm	mm	kg
FAMILY AQUA CONDENS 3.5 BIS	1015	600	450	72



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing heat exchanger in aluminium, with premix burner
- Combi model with built-in 60-liters DHW tank in stainless steel

Family Aqua Condens is a wall-hung boiler that guarantees an excellent comfort in the DHW production thanks to a built-in 60-liters DHW storage tank in stainless steel. The Riello heat exchanger, manufactured 100% aluminium, ensures high efficiency and long life, while reducing polluting emissions to a minimum.

E-DHW INLET
RC-RECIRCULATION

Family Agua Condens is available with outputs from 3.5 to 35 kW.

- Modulating ratio 1:10 (minimum output of 3.5 kW) which allows the boiler to meet all heating requirements
- "Range Rated" certification which allows adapting the rated output of the boiler to the thermal requirements of the installation
- High efficiency circulator (EEI ≤ 0,20)
- Remote alarm which allows the reporting of the boiler lockout status
- Special Family functions: Comfort Button, Memory Button, Touch&Go Function, Smart semi-automatic Filling System
- Boilers are equipped with: mounting template, hydraulic connections, wiring and LPG conversion kit.
- External probe supplied as standard.

TECHNICAL DATA

Description	Heat input Heating/DHW			Tank capacity	Fuel	- 03	efficiency ass	Code
	min - max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	I		.000	7	
ROOM-SEALED - HEATING AND DHW PRODUC	TION							
FAMILY AQUA CONDENS 3.5 BIS	3.5-35.0	105.5	108.0	60.0	NG	Α	Α	20021509

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
ELECTRICAL ACCESSORIES	
Family Remote Control (RECO6) (with electronic interface board)	20165771
Interface board ITRF11	20164477
Remote alarm kit	20165627
Room sensor kit	20163783
Zone valves management kit	20165142
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

HI, COMFORT CONTROLS

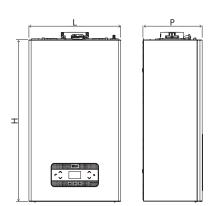
Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
STO O	Hi, Comfort T100 Wi-Fi	(1)	20193354
20.8°	Hi, Comfort T100	(2)	20193352
Klade	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

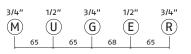
- (*) Possibility of connection via OTBus or in ON/OFF mode.
- (1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (2) For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356. For operation via OTBus, the code 20164477 "ITRF11 interface card" is required.

Wall-hung condensing boilers

Residence HM



M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HM 25 KIS	740	420	275	29
RESIDENCE HM 30 KIS	740	420	275	30
RESIDENCE HM 35 KIS	740	420	275	30
RESIDENCE HM 20 IS	740	420	275	28
RESIDENCE HM 30 IS	740	420	275	29



- Stainless steel primary heat exchanger, robust and high efficiency
- Combined and heating-only models, indoor, built-in and in partially protected locations
- Increased sanitary heat exchanger with high performance
- Next-generation self-adaptive combustion control
- · It has been designed to work with mixtures of NATURAL GAS and HYDROGEN, up to a maximum
- Low polluting emissions CLASS 6 (UNI EN 15502)
- High modulation 1:10
- IOT Ready

The new RESIDENCE HM range of condensing boilers offers users a combination of comfort and savings. Riello proposes a multi energy boiler designed for current and future needs, guaranteeing a reduction in electrical consumption, gas consumption and emissions, with the possibility of remote control.

- Increased sanitary heat exchanger with high performance produced by Riello.
- Self-adaptive electronic combustion control ACC (Active Combustion Control).
- Modern and linear design with under-boiler lower connection cover available as an accessory for optimal aesthetic integration.
- Sanitary specific electronic functions: sanitary delay, anti-pendulum function and smart fan.
- Digital modulating circulator 6m low consumption (IEE 0,20). High head circulator 7 m available as an accessory.
- Hydraulic group with DIN standard sequence.
- Low noise up to 45 dB.
- 93% seasonal efficiency.
- Modern and intuitive touchscreen HMI with representative icons and capacitive buttons with acoustic "buzzer" confirmation.
- 2.8" display with multilingual icons and texts.
- 9 litre expansion tank.
- Easy to install and a wide range of accessories available as options.
- IPX5D electrical protection.
- Gas transformation (Propane Air, LPG) selectable with electronic parameter.
- Fixing template and power supply cable provided.
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory.
- Flue gases flange with dedicated flue system.

TECHNICAL DATA

Description	Heat input Heating/DHW	Useful e	fficiency	DHW production	- 03	efficiency ass	Notes	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min	1111			
COMBI HEATING AND INSTANTANEOU	JS DOMESTIC HOT WATER VE	RSION						
RESIDENCE HM 25 KIS	2,5÷20,0 / 2,5÷25,0	106,5	108,8	14,3	Α	Α	(1)	20205317
RESIDENCE HM 30 KIS	3,0÷25,0 / 3,0÷30,0	106,0	108,8	17,2	A	Α	(1)	20205318
RESIDENCE HM 35 KIS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	20,0	A	A	(1)	20205319
ONLY HEATING VERSION								
RESIDENCE HM 20 IS	2,5÷20,0 / 2,5÷20,0	106,5	108,8	1	Α	-	(1)	20205320
RESIDENCE HM 30 IS	3,5÷30,0 / 3,5÷34,9	105,8	108,7	1	Α	-	(1)	20205321

⁽¹⁾ The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
MECHANICAL ACCESSORIES		
Air Filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler RESIDENCE HM		20209806
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Board BE09 with double multi-function relay	(3)	20192808
Condensate booster pump kit		20097192
High residual pump 7 m		20210993
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Well probe for remote heater (for heating only version)		1220599
Flexible fittings kit for boiler replacement	(4)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
COMPLEMENTARY ACCESSORIES		
Antifreeze heaters -15 °C	(5)	20191888
External probe kit		1220559
Limit thermostat for low temperature installations		1220639
SPECIFIC FLUES (*)		
Split connection system kit Ø80 mm		20217921
Ø80 mm clapet kit for pressurized collective flues		20164664
Ø80/125 mm concentric clapet kit for pressurized collective flues		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(6)	20129174
90° bend kit Ø60/100 mm for boiler start	(7)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adaptor kit B23 Ø80 mm		20129769
Splitter device kit B23 Ø80 mm for in-wall installation box		20129768
Compact adjustable splitter device kit from 60/100 mm to 80/80 mm		20190475

Ideal to avoid introducing impurities from the intake air into the exchanger and burner.

Ideal board for managing additional circulator or zone valve and alarm remote kit.

Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Residence HM boilers with previous boilers with Riello standard hydraulic connection sequence.

The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible) included in the offer.

accessory kits (not flexible) included in the offer.

(6) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

(7) Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

(*) Dedicated flue gases accessories, compatible with the Residence HM flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.

AUGUST 2024 EDITION

RIELLO

HI, COMFORT ADVANCED ENVIRONMENT CONTROL

Multi-zone room control and System Manager with remote management capability via APP Hi, Comfort.

Image	Description	Notes	Code
ni Corner	Hi, Comfort T300	(1)(2)(3)(4)	20205322
15.5	Hi, Comfort T300 TE	(4)(5)	20210659
	Power supply REC 10H		20134478

- (1) Wi-fi as standard.
- (2) Compatible with NXHP and NXHM heat pumps.
- (3) For lengths longer than 30m, add code 20134478.(4) Device provided with gateway.
- (5) Compatible with Sprint T and Domus T heat pumps.

ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS

Description	Notes	Code
Solar interface kit	(1)	20168672
First zone management kit (MIX or DIR zone)	(1)(2)	20132795
Additional zone management kit (MIX or DIR zone)	(1)(2)(3)	20132796

- (1) Wi-fi as standard (2) Compatible with NXHP and NXHM heat pumps
- (3) For lengths longer than 30m, add code 20134478
 (4) Device provided with gateway
- (5) Compatible with Sprint T and Domus T heat pumps

HI, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP.

Image	Description	Notes	Code
*Commr	Hi, Comfort T200	(1)(2)	20211852
20.00	Hi, Comfort T100 Wi-Fi	(3)	2019335
50.8	Hi, Comfort T100	(4)	2019335
inter 18	Hi, Comfort G100-W		2019335
(0)	Hi, Comfort G100-R		2019335

- (*) Only ON/OFF connection with BAG3 HYBRID.

- Room thermostat for multi-room applications, to be provided in combination with Hi, Comfort T300.
 Hi, Comfort T200 combined in RF. to Hi, Comfort T300 allows zone management.
 With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary for internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

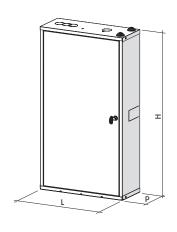
Smart key with possible management via APP

Image	Description	Notes	Code
	Hi, Comfort K100		20168501

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- Supplied without in-wall installation box
 Equipped as standard with limit thermostat for low temperature systems
 Mixed zone equipped as standard with limit thermostat for low temperature systems
 In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID



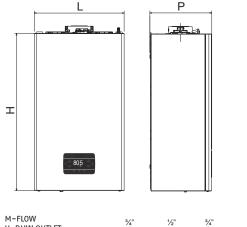
Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

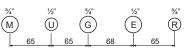
Description	Code
Taps kit for BAG³ HYBRID system side and heat pump	20131752

Wall-hung condensing boiler

Start



U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START 25 KIS	700	400	275	28.5
START 30 KIS	700	400	275	30.0
START 25 IS	700	400	275	27.5
START 15 IS	700	400	275	27.5



- New stainless steel primary heat exchanger, compact and robust
- Combined and heating-only models, indoor, built-in and outdoor in partially protected
- Dimensions among the most compact in the segment (width of only 400 mm), also ideal for small wall units
- Hydraulic unit with sequence standard DIN connections
- Designed to operate with mixtures of natural gas and hydrogen, up to a maximum of 20%
- Class 6 NOx

START is the new proposal of Riello condensing boilers for small and medium sized households. It has been completely renewed from a technological and functional point of view.

START is available in 3 sizes of power 15, 25, 30 kW, in combined (KIS) and heating-only (IS) versions.

One of the distinguishing features of the new START is the innovative digital control panel with touch buttons designed with an emphasis on ease of use.

- High-efficiency sanitary exchanger developed by Riello
- Modern and intuitive touchscreen HMI, with representative icons and capacitive buttons with acoustic ""buzzer"" to confirm
- Modern and linear design with under-boiler lower connection cover available as an accessory for optimal aesthetic integration
- Sanitary specific electronic functions: sanitary delay, anti-pendulum function and smart fan
- Hydraulic group with DIN standard sequence
- Low-consumption circulator (IEE≤0.20) 7 m high head available as an accessory
- Easy installation, easy integration even in small spaces and easy replacement, thanks to a wide range of accessories optionally available
- Modulation ratio 1:8
- Easy maintenance and cleaning of the combustion chamber thanks to frontal access to the exchanger
- 93% seasonal efficiency
- 8 litre lateral expansion tank
- Standard flue gas flange with dedicated flue system
- Temperature control as standard in combination with the external probe, available as an accessory
- Possibility of built-in installation (model 25 KIS and 30 KIS) and outside in partially protected places (IPX5D)
- Mounting crossbar already integrated in the boiler and power supply cable included
- Natural gas operation as standard with possibility of conversion to LPG (G31) and propane air through accessories. This modification must be carried out by the installer or by the technical assistance service.
- IPX5D electrical protection

TECHNICAL DATA

Description	Heat input Heating/DHW	Useful eff	iciency	DHW production	Fuel		ergy cy class	Note	Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		.000	<i>چ</i>		
COMBI HEATING AND ISTANTANEOUS DOMESTIC HOT WATER VERSION									
START 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	NG	А	A	(1)	20197878
START 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	LPG	А	A	(1)	20197880
START 30 KIS	3.95÷25.0/3.95÷30.0	107.1-103.6	108.8	17.2	NG	А	A	(1)	20197879
HEATING ONLY VERSION									
START 15 IS	3.1÷15.0/3.1÷25.0	105.7-98.0	109.6	-	NG	Α	-	(1)	20187773
START 25 IS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	_	NG	А	-	(1)	20187774

⁽¹⁾ Outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

ACCESSORIES

Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
MECHANICAL ACCESSORIES		
Air filter	(2)	20190324
Hydraulic low fittings cover		20191519
Dummy boiler Start 25 KIS		20191885
Wall mounting frame 1 pc.		20191891
Wall mounting frame 5 pcs.		20191892
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
High residual pump 7 m		20189142
Crossover kit (DIN vs Riello)	(3)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Solar diverter valve kit for instant wall-hung combined boilers		20035644
COMPLEMENTARY ACCESSORIES		
Board BE09 with double multi-function relay	(6)	20192808
Antifreeze heaters -15 °C	(7)	20191888
External probe		1220559
Building site kit with analogue hydrometer		20191520
Limit thermostat for low temperature installations		1220639
SPECIFIC FLUES		
Fixed split system kit Ø80 mm		20129765
Ø80 mm clapet with condensate trap		20164664
Ø80/125 mm clapet with condensate trap		20164662
Nall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
/ertical collector Ø60/100 mm		20129177
/ertical connection stub pipe kit Ø60/100 mm	(4)	20129174
90° bend kit Ø60/100 mm for boiler start	(5)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adapter kit B23 Ø80 mm		20129769
plit kit B23 Ø80 mm for in-wall installation box		20129768
Compact swelling kit Ø60/100 – Ø80/80		20190475

Description	Notes	Code
GAS TRANSFORMATION		
Propane air conversion kit (25 KIS - IS)		20192718
Propane air conversion kit (30 KIS)		20192719
LPG conversion kit (25 KIS - IS)		20192715
LPG conversion kit (30 KIS)		20192717

- Unit supplied with door.
- Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
- Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Start boilers with previous boilers with Riello standard hydraulic connection sequence.
- Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

- Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

 Ideal board for managing additional circulator or zone valve and alarm remote kit.

 The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible) included in the offer.

HI, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
Sino.	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Almer	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

- Only ON/OFF connection with BAG3 HYBRID.
- With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.

 For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary for internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

Smart key with possible management via APP

Image	Description	Notes	Code
and	Hi, Comfort K100		20168501

RLT



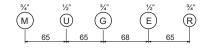


- · New stainless steel primary heat exchanger, compact and robust
- Combined and heating-only models, indoor, built-in and outdoor in partially protected
- Dimensions among the most compact in the segment (width of only 400 mm), also ideal for small wall units
- Hydraulic unit with sequence standard DIN connections
- Designed to operate with mixtures of natural gas and hydrogen, up to a maximum of 20%

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Wall-hung condensing boiler

M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
RLT 25 KIS	700	400	275	25
RLT 25 KIS (MTN)	700	400	275	25
RLT 30 KIS	700	400	275	30

The RLT range is the entry-level offer of Riello condensing boilers for small and medium-sized domestic users

- High-efficiency DHW exchanger
- Pneumatic combustion control
- Modern and linear design with lower boiler connection cover available as an accessory for excellent aesthetic integration
- Specific sanitary electronic functions: sanitary delay, anti-pendulum functions, and smart fan
- Low-consumption modulating pump with 6m head (IEE ≤ 0.20). High-head 7m pump available as an accessory
- Hydraulic group with standard DIN sequence
- Seasonal efficiency 93%
- Modern and intuitive HMI touchscreen, with representative icons and capacitive buttons with acoustic confirmation "buzzer"
- 2" display with icons
- 8-liter expansion vessel
- Ease of installation and wide choice of accessories available as options
- Electrical protection rating IPX5D

TECHNICAL DATA

Description	Heat input Heating/DHW	Useful efficiency		DHW I production	Fuel		Energy efficiency class		Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	ΔT 25° I/min		.000	ريّ		
OMBI HEATING AND ISTA	NTANEOUS DOMESTIC HOT WAT	TER VERSION							
RLT 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	NG	A	A	(1)	20213292
RLT 25 KIS	3.1÷20.0/3.1÷25.0	104.6-98.0	109.1	14.3	LPG	A	A	(1)	20213293
RLT 30 KIS	3.95÷25.0/3.95÷30.0	107.1-103.6	108.8	17.2	NG	Α	Α	(1)	20216033

(1) Outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory).

AUGUST 2024 EDITION



Description	Notes	Code
IN-WALL INSTALLATION		
In-wall installation unit	(1)	20161604
Crossbar for in-wall installation		20191887
MECHANICAL ACCESSORIES		
Hydraulic low fittings cover		20191519
HYDRAULIC ACCESSORIES		
Compact polyphosphate doser kit		20191518
Compact magnetic filter		20191517
Crossover kit (DIN vs Riello)	(2)	20191890
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Solar diverter valve kit for instant wall-hung combined boilers		20035644
COMPLEMENTARY ACCESSORIES		
Board BE09 with double multi-function relay	(3)	20192808
Antifreeze heaters -15 °C	(4)	20191888
External probe		1220559
Limit thermostat for low temperature installations		1220639
SPECIFIC FLUES		
Fixed split system kit Ø80 mm		20129765
Ø80 mm clapet with condensate trap		20164664
Ø80/125 mm clapet with condensate trap		20164662
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection stub pipe kit Ø60/100 mm	(5)	20129174
90° bend kit Ø60/100 mm for boiler start	(6)	20129172
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Adapter kit B23 Ø80 mm		20129769
Split kit B23 Ø80 mm for in-wall installation box		20129768
Compact swelling kit Ø60/100 – Ø80/80		20190475

Unit supplied with door. Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Start boilers with previous boilers with Riello standard hydraulic connection sequence.

Ideal board for managing additional circulator or zone valve and alarm remote kit.

The antifreeze heater kit allows to protect the sanitary circuit from the risk of freezing in case of temperatures below 0°C (down to -15°C), using the copper fitting

accessory kits (not flexible) included in the offer.
Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

Code necessary for horizontal exhaust with flue system 60/100. Accessory already included in kit 20129175 and 20129176.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
200	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Ninte	Hi, Comfort G100-W		20193355
•	Hi, Comfort G100-R		20193356

Only ON/OFF connection with BAG³ HYBRID. With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.

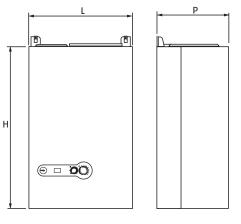
For wired connection with boiler, compatible in radio-frequency connection with Hi, Comfort G100-W, code 20193355 (accessory not included and necessary for internet connection by means of ADSL Wi-Fi router) and compatible i with Hi, Comfort G100-R, code 20193356.

Smart key with possible management via APP

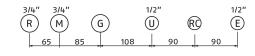
Image	Description	Notes	Code
No.	Hi, Comfort K100		20168501

Condensing wall-hung boilers

Start Aqua Condens



M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START AQUA CONDENS 25/45 BIS	940	600	450	66
START AQUA CONDENS 25/60 BIS	940	600	450	70

WHILE STOCKS LAST



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing aluminum heat exchanger and premix burner
- Combi model with 45 or 60 liters stainless steel DHW tank

Start Aqua Condens is a condensing wall-hung boiler featuring a 45 or 60 liters stainless steel DHW tank. The Riello heat exchanger, aluminum made, guarantees efficiency, durability, high head and polluting emissions reduction. Start Aqua Condens is available with 25 kW output.

- High efficiency circulator (EEI ≤ 0,20)
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (spare-part optional), to be mounted by the technical assistance

TECHNICAL DATA

Description	Heat input Heating/DHW			DHW production	Fuel	Energy efficiency class		Code
	min-max kW	Pn (50°/30 °C) %	30% Pn (return 30 °C) %	∆T 25° I/min		900	~	
ROOM SEALED - HEATING AND DHW PRO	DUCTION WITH	TANK						
START AQUA CONDENS 25/45 BIS	6.0-25.0	105.0	107.1	14.3	NG	Α	Α	20142452

RIELLO

Description	Code
CONTROL DEVICES	·
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit	20002606
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
High head pump kit	20105879
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

Hi, COMFORT CONTROLS

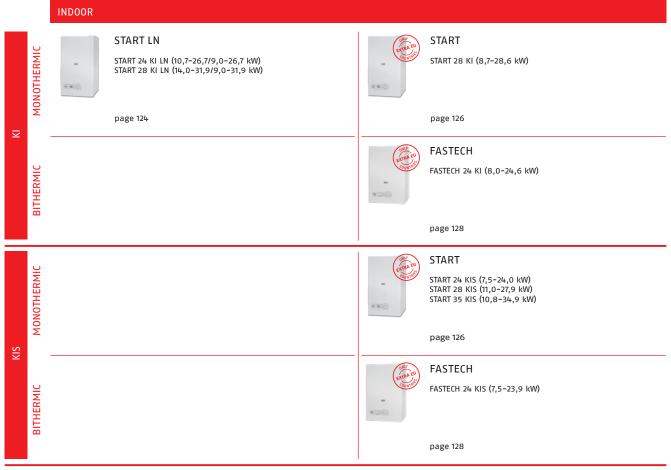
Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
STORY OF	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Kinte	Hi, Comfort G100-W		20193355
_ (•	Hi, Comfort G100-R		20193356

- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
- (1) Hi, Comfort G100-W included to connect to the home Wi-Fi.
 (2) Compatible with RF connection to the Hi, Comfort G100-W Cod. 20193355 (accessory not included, necessary to connect to the home Wi-Fi).

STANDARD-EFFICIENCY WALL-HUNG BOILERS

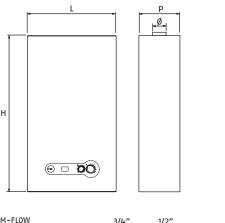




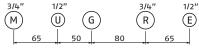
- Combi: Heating and DHW Production conventional flue Combi: Heating and DHW Production room sealed
- KIS
- * The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

Standard wall-hung boilers

Start LN



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	ø mm	Net weight kg
START 24 KI LN	740	400	332	130	30
START 28 KI LN	740	450	332	140	32



- · Open chamber
- Combi model
- Only for replacement on CCR
- Low N0x emissions

Start LN has a simple modern that is ideal for heating and the production of domestic hot water in small and medium size households. Start LN is available with 24 and 28 kW outputs with low NOx emissions <56 mg/kWh.

- Double heat exchanger: domestic hot water production with plate heat exchanger to minimise the formation of limescale
- CTR system for a rapid attainment of the desired comfort and a reduction in consumption, and temperature changes in the heating bodies
- 8 litre expansion tank
- Low consumption circulator (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic hot water circuits down to 0 $^{\circ}$ C
- Thermoregulation as standard in boiler board in combination with the outdoor temperature sensor (optional)
- Can interface with the Remote Control Panel
- Hydraulic connections available as an accessory kit
- Operation with methane as standard with the possibility of conversion to LPG (G31), this modification is done by the installer or the technical assistance centre
- Electric protection level IPX5D

ΤΕΓΗΝΙΓΔΙ ΠΑΤΑ

Description	Heat input Heating/DHW	Useful efficiency		DHW production	Fuel	Energy efficiency class		Code
	min-max kW	Pn (80°/60 °C) %	30% Pn (rit. 50 °C) %	∆T 25° I/min		.000	~	
/ERSION WITH OPEN CHAMBER-	HEATING AND PRODUCTION OF	BOILER DOM	ESTIC HOT WA	TER				
START 24 KI LN	10.7-26.7/9.0-26.7	90.1	89.2	13.8	NG	С	В	20151434
START 28 KI LN	14.0-31.9/9.0-31.9	90.5	89.5	16.6	NG	С	В	20151435

Description	Code
CONTROL DEVICES	<u>'</u>
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit for Start 24 KI LN model	20155079
LPG conversion kit for Start 28 KI LN model	20155101
ELECTRICAL ACCESSORIES	
External probe	1220559
Kit for managing second pump or zone valves	20062614
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
High head pump kit	20105879
Polyphosphates doser kit	20135496
Magnetic filter and polyphosphates doser kit	20135495
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
200	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

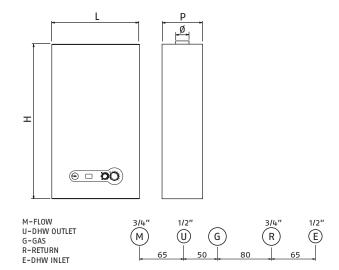
- (*) Possibility of connection via OTBus or in ON/OFF mode.
 (1) With Hi, Comfort G100-W, included, for intrnet connect
 (2) For cable OTBus connection to the boiler. Compatible for
- With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.

 For cable OTBus connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem) and compatible with Hi, Comfort G100-R code 20193356.

RIELLO

Standard efficiency wall-hung boilers

Start



Description	H mm	L mm	P mm	ø mm	Net weight kg
START 24 KIS	715	405	248	-	31
START 28 KIS	740	400	328	-	33
START 35 KIS	780	505	328	-	42
START 28 KI	740	450	328	140	30

• Conventional flue and room-sealed models

- Models: heating-only and combi
- Digital display

The Start range features a modern and functional design completed by a digital screen including essential information. The stylish casing, the compact size and special finishing details allows its installation into any setting.

The new Start is available both conventional flue and room sealed with 24, 28 and 35 kW output with heating only or heating and DHW production models.

- Double-heat exchanger (CH and DHW stainless steel plate heat-exchangers)
- CTR system to achieve faster desired comfort and reduce fuel consumption
- Frost protection function which protects the heating and DHW circuits down to -3 °C, with the possibility of extending protection down to -10 °C (as optional)
- Thermoregulation control supplied as standard fitted with the external probe (as optional).

TECHNICAL DATA

Description	0utput 80°/60° min – max kW	Efficiency Pn (80°/60°) %	Efficiency Pn 30% (47 °C return) %	DHW production (∆t 25°) I/min	Fuel	Code
ROOM-SEALED - HEATING AND	DHW PRODUCTION					
START 24 KIS	7.5-24.0	92.8	91.8	13.7	NG	20122798
START 28 KIS	11.0-27.9	93.0	91.9	16.0	NG	20122801
START 35 KIS (*)	10.8-34.9	92.9	92.5	20.0	NG	20122802
CONVENTIONAL FLUE - HEATING	AND DHW PRODUCTION					
START 28 KI (*)	8.7-28.6	92.4	89.4	16.4	NG	20122800

(*) While stocks last

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for START 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
200	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8°	Hi, Comfort T100	(2)	20193352
Klade	Hi, Comfort G100-W		20193355
e	Hi, Comfort G100-R		20193356

- Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in O
 (1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (2) Compatible with RF connection to the Hi, Comfort G100-W codice 20193355 accessory not included, necessary to connect to the home Wi-Fi).

TERMINAL UNITS

RIELLO

Standard efficiency wall-hung boilers

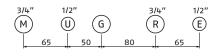
Fastech





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M-FLOW U-DHW OUTLET G-GAS R-RETURN E-DHW INLET



Description	H mm	L mm	P mm	Ø mm	Net weight kg
FASTECH 24 KI	740	400	332	130	30
FASTECH 24 KIS	715	405	248	-	28

Fastech is the new wall-hung boiler dedicated to new housing. Featuring a modern and essential design, Fastech satisfies the heating and DHW demand of small and mid-sized houses. Fastech is available with 24 kW output.

- High-efficiency, bithermic copper heat-exchanger
- The CTR system allows to reach faster the desidered temperature and to reduce consumption, limestone production inside the boiler and thermic variations in the heating terminals
- 8 liters expansion vessel

Combi boiler

- Frost protection of the heating and sanitary circuits
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Remote Control Panel to be interfaced
- IPX5D electrical protection rating
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance

TECHNICAL DATA

Description	0utput 80°/60° min – max kW	Efficiency Pn (80°/60°) %	Efficiency P30% %	DHW production (∆t 25°) I/min	Fuel	Code
CONVENTIONAL FLUE - HEATING	CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION					
FASTECH 24 KI (*)	8.0-24.6	92.0	90.8	14.1	NG	20122804
ROOM SEALED - HEATING AND DHW PRODUCTION						
FASTECH 24 KIS (*)	7.5-23.9	92.8	91.8	13.7	NG	20122807

(*) While stocks last

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for FASTECH 24 KI)	20015587
LPG conversion kit (for FASTECH 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	20012594
Mounting template kit for 24 KIS model (10 pcs)	20017311

HI, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Image	Description	Notes	Code
Si on	Hi, Comfort T100 Wi-Fi	(1)	20193354
20.8	Hi, Comfort T100	(2)	20193352
S. Sandar	Hi, Comfort G100-W		20193355
	Hi, Comfort G100-R		20193356

- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
 (1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (2) Compatible with RF connection to the Hi, Comfort G100-W codice 20193355 accessory not included, necessary to connect to the home Wi-Fi).

SYSTEM COMPLEMENTARY ITEMS

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HEAT PUM

ALL-HUNG BOILERS

'LOOR-STANDING Boilers

NATER-HEATER

SOLAR THERMAL AND CYLINDERS

NTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

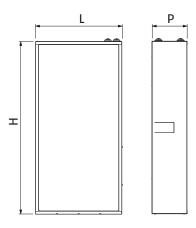
SYSTEM COMPLEMENTARY ITEMS

> HOT AIR Enerators

System complementary items

Bag³ Hybrid







- · Manageable via Modbus by boilers and heat pumps with REC10 control panel
- Setting of independent climatic curves for each
- Motorized mixing valves on mix zone
- Low-consumption self-modulating circulators

Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	8,8
BAG ³ HYBRID 2D	797	400	160	11,2
BAG ³ HYBRID 1D+1M	797	400	160	12,4
IN-WALL INSTALLATION BOX	797	400	160	8,0

The distribution BAG3 is a specific accessory designed for hybrid systems intended for pairing with wall-hung and floor-standing boilers with versions for recessed or outdoor installation (IPX5D electrical protection).

- External housing that groups all components in galvanised sheet metal, for recessed or wall-hung installation
- Distribution collector (mixture bottle)
- Low-consumption self-modulating circulators
- Motorized mixing valve on the mixed zone
- Setting of independent climatic curves for each zone
- To be paired with REC10 H hybrid system control
- Possible connection of zone thermostats

With BAG³ the hybrid systems can be expanded with the addition of:

- single coil domestic hot water heater for pre-heating by the heat pump
- solar thermal collectors, solar circulation pump and electronic kit for solar thermal management
- interface with photovoltaic system to favour the use of the electrical source
- double coil domestic hot water heater for pre-heating by a solar thermal system and the heat pump.

TECHNICAL DATA

Description	Notes	Code
OUTDOOR RECESSED VERSIONS		
BAG ³ HYBRID 1D	(1)	20130805
BAG ³ HYBRID 2D	(1)	20130806
BAG ³ HYBRID 1D+1M	(1)(2)	20130807
IN-WALL INSTALLATION BOX		20130808

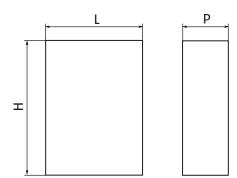
- To install the module, it is necessary to purchase the in-wall installation box code 20130808. (1) Refer to the hybrid system section of the catalogue for compatible boiler pairing.
- (2) Limit thermostat on mixed zone only.

ACCESSORIES

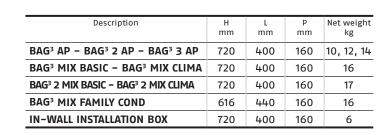
Description	Code
Cock kit for BAG³ HYBRID on system and heat pump side	20131752

RIELLO

Bag³



System complementary items





- ERP
- Hydraulic separator
- Low-energy circulators

BAG hydraulic separator is an accessory to be matched with wall-hung and floor-standing boilers that can be installed outdoor or in a in-wall place.

- BAG3 for high-flow rate direct circuit (1, 2 or 3 zones) works as a hydraulic separator between boiler and high-flow rate circuits. Equipped with self modulating energy-efficient circulators.
- BAG3 MIX and BAG3 2 MIX for high-flow rate direct and mixed circuits, work as hydraulic separators between boiler and double or triple $temperature\ circuits.\ Equipped\ with\ self\ modulating\ energy-efficient\ circulators.$
- BAG³ MIX Family Condens for direct and mixed circuit: mixing valve and mixed circuit pump are controlled by the electronic board supplied as standard, that can be located inside the boiler.
- Energy-efficient circulators
- Suitable for in-wall and outdoor installation
- Galvanized sheet that can be white painted
- BAG³ and BAG³ M are supplied as standard with limit thermostat for low temperature circuits.

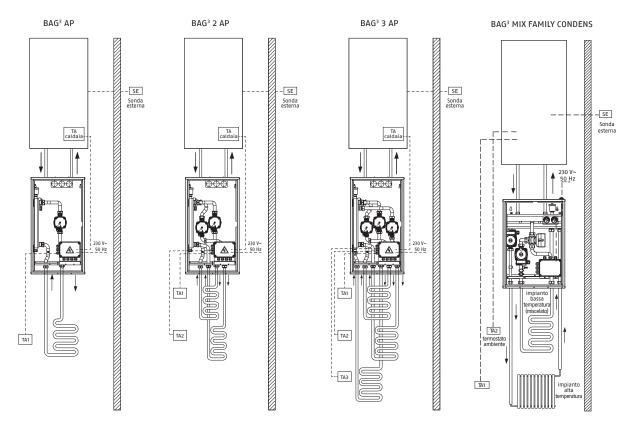
TECHNICAL DATA

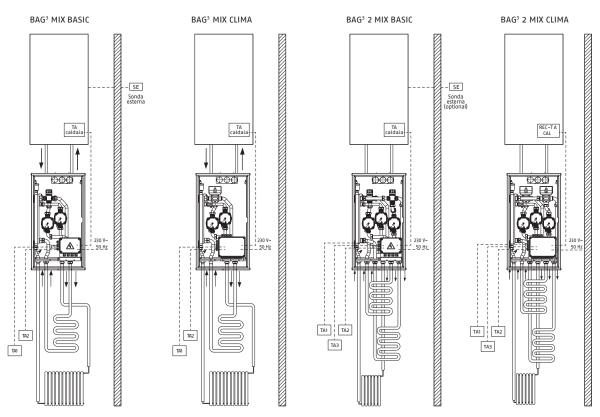
Description	Notes	Code
VERSION FOR OUTDOOR IN-WALL INSTALLATION		
BAG ³ AP	(1)	20082277
BAG ³ 2 AP	(1)	20082280
BAG ³ 3 AP	(1)	20082282
BAG ³ MIX BASIC	(1)	20082286
BAG ³ MIX CLIMA	(1)	20082283
BAG ³ 2 MIX BASIC	(1)	20082288
BAG ³ 2 MIX CLIMA	(1)	20082284
BAG ³ MIX FAMILY CONDENS	(2)	20102824
IN-WALL INSTALLATION BOX		20007305

- Supplied without in-wall installation box
- (2) Supplied with in-wall installation box

Description	Notes	Code
Interface board ITRF11	(1)	20164477
Insulation kit for in-wall installation box		20085456

(1) It is necessary in case of installation of BAG³ MIX CLIMA (20082283 code) and BAG³ 2 MIX CLIMA (20082284 code) with Family Aqua Condens, Family Externa Condens and Family In Condens to manage high and low temperature circuits according to the boiler flow temperature.







FLOOR-STANDING BOILERS)
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FLOOR-STANDING CONDENSING BOILERS 137

FLOOR-STANDING STANDARD EFFICIENCY BOILERS

141

FLOOR-STANDING CONDENSING BOILERS



STEEL OIL BOILERS

WITH 3 WAY VALVE

HEATNG ONLY



INSIEME EVO COND

INSIEME EVO COND 20 V LN (20 kW)*
INSIEME EVO COND 25 V LN (25 kW)*
INSIEME EVO COND 35 V LN (34,9 kW)*

page 138



INSIEME EVO COND

INSIEME EVO COND 45 LN (43,7 kW)*
INSIEME EVO COND 55 LN (38,9-53,3 kW)**
INSIEME EVO COND 70 LN (53,4-67,7 kW)**

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HEATING AND DHW PRODUCTION 130 LITERS SORAGE TANK



INSIEME EVO COND

INSIEME EVO COND 25 B/130 LN (25 kW)*
INSIEME EVO COND 35 B/130 LN (34,9 kW)*

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- * Max useful power 80/60 °C
- ** Min/max useful power 80/60 °C

WATER-HEATERS

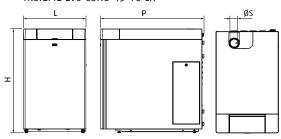
TERMINAL UNITS

RIELLO

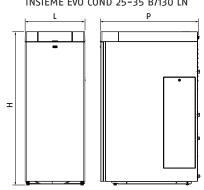
Steel floor-standing oil condensing boilers

Insieme Evo Cond

INSIEME EVO COND 20-35 V LN INSIEME EVO COND 45-70 LN











- In conformity with Directive 2009/125/EC
- · Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 20 V LN	1000	600	994	80	80	120
Insieme EVO COND 25 V LN	1000	600	994	80	80	120
Insieme EVO COND 35 V LN	1000	600	994	80	80	150
Insieme EVO COND 45 LN	1138	600	1155	110	110	195
Insieme EVO COND 55 LN	1138	600	1155	110	110	198
Insieme EVO COND 70 LN	1138	600	1155	110	110	202
Insieme EVO COND 25 B/130 LN	1540	600	975	80	80	150
Insieme EVO COND 35 B/130 LN	1540	600	975	80	80	195

^(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55.70 kW models with low pollutant emissions.

The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specifics accessory kits. "Heating only" or combined versions are available for the production of domestic hot water with storage tank.

All models are equipped with a new electronic panel with a backlit graphic display with five buttons and LEDs for operation status display.

The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.

The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.

- Low sound emissions
- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connextions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with N0x emissions ≤100 mg/kWh)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

Insieme EVO COND 20-35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)

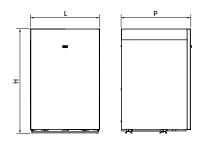
Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank

Insieme EVO COND 45-70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description		:put W	Efficiency		DHW production	Tank capacity	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30°C) %	l/min	(liters)	900	7		
LOW NOX VERSION - HEATING ONLY										
NSIEME EVO COND 20 V LN	19.5	20.0	97.3	105.9	_	_	A	-	(1)	20145974
NSIEME EVO COND 25 V LN	24.2	25.0	96.9	105.6	_	-	A	-	(1)	20145975
NSIEME EVO COND 35 V LN	33.8	34.9	96.5	104.8	_	-	A	_	(1)	20145976
NSIEME EVO COND 45 LN	43.7	45	97.2	104.8	_	_	A	-		20145977
NSIEME EVO COND 55 LN	53.3	40-55	96.9	104.9	_	-	A	-		20145978
NSIEME EVO COND 70 LN	67.7	55-70	96.8	104.8	_	-	A	-		20145979
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE TANK										
NSIEME EVO COND 25 B/130 LN	24.2	25.0	96.9	105.6	10.0	130	A	В	(2)	20145980
NSIEME EVO COND 35 B/130 LN	33.8	34.9	96.5	104.8	11.4	130	А	В	(2)	20145981

ACCESSORIES



Description	H	L	P	Net weight
	mm	mm	mm	kg
120 It storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production I/h	Energy efficiency class	Notes	Code
120 lt storage tank	120,0	29,8	730	С	(1)(2)	20132804
Boiler – storage tank hydraulic connection					(1)	20132805

Coupable with integrated 3 way valve models ("V" version). Grey painted tank (RAL 7047).

⁽¹⁾ Integrated 3 way valve.(2) Domestic hot water production with reference to T 35 °C.

RIELLO

ACCESSORIES

Description	Notes	Code
SECONDARY CIRCUIT MANAGEMENT		
External probe		1220559
Domestic hot water probe		1220599
1st direct/mixed zone management		20132795
2 nd /3 rd direct/mixed zone management		20132796
SEALED TRANSFORMATION (TYPE C)		
Ø80 mm type C transformation	(1)	20163226
Ø110 mm type C transformation	(2)	20163285
SAFETY DEVICES	` '	
Fuel shut-off valve kit (VIC) - ØG.1"		20009486
Pressure gauge- safety valve kit (2,5 bar)	(3)	20181008
Safety devices kit	(2)(4)	20180519
Safety kit adapter	(2)	20165826
FUEL FILTER	` '	
Oil filter		20132792
FLUE DISCHARGE	` '	
Ø80 - Ø80/125 mm adapter	(1)	20159698
Ø110 - Ø110/160 mm adapter	(2)	20160472
HYDRAULIC ACCESSORIES		
DN70 hydraulic separator		4047314
CASCADE MANAGEMENT		
RIELLOtech CLIMA COMFORT	(2)	4031069
CLIMA COMFORT	(2)	20010903
CLIMA DISPLAY	(2)	20010906
Kit controllo ambiente RC3	(2)	20155028
Kit comunicazione per comunicazione bus tra Insiem Evo Cond e RIELLOtech	(2)(5)	20021674
Sonda per pozzetto collettore solare NTC (10kΩ)	(2)(6)	4031913
Sonda per pozzetto NTC (10kΩ) 5 metri	(2)(7)	20010068
Sonda a bracciale NTC (10kΩ)	(2)(8)	20010068
Sonda bollitore NTC (10kΩ) 5 metri	(2)(9)	20010103
CONDENSATE NEUTRALIZER		
DNO 1 neutralization kit (up to 50 kW)		20182660
DNO 2 neutralization kit (up to 300 kW)		20182661
HN0 1.6 neutralization kit (up to 200 kW)	(10)	20182664

- For 20-25-35 models. For 45-55-70 models.

- To be combined with code 20180519.
 It contains: pressure switch, minimum pressure switch and thermometer.
- It contains wiring and communication kit.
- (1) (2) (3) (4) (5) (6) (7) (8) (9)
- Probe for solar system.
 Primary probe (hydraulic separator).
- Mixed zone probe. Cylinder probe.
- (10) Equipped with extraction pump.

Hi, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
200	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Alada	Hi, Comfort G100-W		20193355
e	Hi, Comfort G100-R		20193356

- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
 (1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).

FLOOR-STANDING STANDARD EFFICIENCY BOILERS

(4)

OIL BOILERS

STEEL



INSIEME EVOe LN

INSIEME EVOe 25 LN (26,5 kW)*
INSIEME EVOe 32 V LN (33,9 kW)*

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INSTANTANEOUS



INSIEME EVOe LN

INSIEME EVOE 25 K LN (26,5 KW)*
INSIEME EVOE 32 K LN (33,9 KW)*

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70 LITERS STORAGE TANK

100-130 LITERS STORAGE TANK

HEATING AND DHW PRODUCTION CONVENTIONAL FLUE



INSIEME EVOe LN

INSIEME EVOE 25 B/70 LN (26,5 KW)*

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INSIEME EVOe LN

INSIEME EVOE 32 B/110 LN (33,9 KW)*

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All versions can be transformed into a sealed chamber version with a dedicated accessory kit.

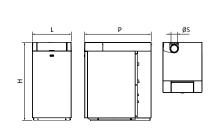
RIELLO

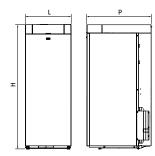
Steel floor-standing standard boilers

Insieme EVOe LN

Insieme EVOe 25 LN - 32 V LN Insieme EV0e 25/32 K LN









- In conformity with Directive 2009/125/EC
- Steel boilers with light oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	Ø A mm	Ø S mm	Net weight kg
Insieme EVOe 25 LN	900	450	660	80	80	104
Insieme EVOe 32 V LN	900	600	760	80	120	136
Insieme EV0e 25 K LN	900	450	660	80	80	106
Insieme EV0e 32 K LN	900	600	760	80	120	138
Insieme EV0e 25 B/70 LN	1355	500	735	80	80	155
Insieme EV0e 32 B/110 LN	1490	600	700	80	120	206

Type C conversion accessory kit

Steel boiler with low combustion pollutant emission one-stage light oil burner. The body of the boiler is vertical and is covered in insulating and sound-proofing material.

The standard Insieme EVOe is available with an open chamber that can be converted into a sealed chamber with the accessory kit. Versions are available for heating only or combined with instantaneous domestic hot water production or with storage. All models have a new electronic panel with backlit graphic display and five keys and LEDs for displaying the operating status. The control system provides climatic adjustment, the management of the distribution of up to 3 zones using special accessory kits, and the regulation of the domestic hot water. The electronics also provide the possibility of remote management using a 0-10 V input or else with the Modbus protocol.

- Easy and inexpensive to install. The delivery includes all the accessories for it to operate safely
- Easy to maintain: combustion chamber, flue gases manifold, control panel and hydraulic connections are can be easily
- Low pollutant emissions, class 3 according to EN 267 (N0x≤100mg/kWh)
- Maximum operating pressure: 3 bar

Insieme EVOe 25 LN: boiler for room heating.

Insieme EV0e 32 V LN: boiler for room heating. Equipped with 3-way valve for combination with an external domestic hot water storage cylinder (accessory kit).

Insieme EV0e 25/32 K LN: boilers for room heating and the instantaneous priority production of domestic hot water using an instantaneous plate heat exchanger with a diverter valve and control of the modulating pump (PWM).

Insieme EV0e 25 B/70 LN: boilers for room heating and the production of domestic hot water with a 70 litre integrated storage

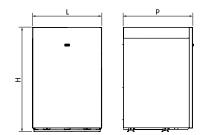
Insieme EV0e 32 B/110 LN: boilers for room heating and the production of domestic hot water with a 110 litre integrated storage cylinder.

TECHNICAL DATA

Description	Output kW		Efficie	Efficiency %		Tank capacity	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (37°C) %	l/min	liters	900	7		
LOW NOX VERSION - ONLY HE	ATING									
INSIEME EVOE 25 LN	25.3	26.5	95.4	96.6	_	-	В	_		20118240
INSIEME EVOE 32 V LN	32.5	33.9	95.7	97.3	-	_	В	_		20130415
LOW NOX VERSION - HEATING	AND INSTA	NTANEOUS I	OMESTIC H	OT WATER P	RODUCTION					
INSIEME EVOE 25 K LN	25.3	26.5	95.4	96.6	9.4	_	В	В	(1)	20118244
INSIEME EVOE 32 K LN	32.5	33.9	95.7	97.3	12.7	-	В	В	(1)	20118245
LOW NOX VERSION - HEATING	AND DOME	STIC HOT W	ATER PRODU	CTION WITH	STORAGE CY	LINDER				
INSIEME EVOE 25 B/70 LN	25.3	26.5	95.4	96.6	9.4	69	В	В	(1)	20118246
INSIEME EVOE 32 B/110 LN	32.5	33.9	95.7	97.3	12.7	106	В	В	(1)	20118250

⁽¹⁾ Domestic hot water production with reference to ΔT 35 °C

ACCESSORIES



Description	H	L	P	Net weight
	mm	mm	mm	kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production I/h	Energy efficiency class	Notes	Code
120 It storage tank	120,0	29,8	730	С	(1)(2)	20132804
Boiler - storage tank hydraulic connection					(1)	20132805

Coupable with integrated 3 way valve models ("V" version). Grey painted tank (RAL 7047).

ACCESSORIES

Description	Code
SECONDARY CIRCUIT MANAGEMENT	,
External probe	1220559
Domestic hot water probe	1220599
1st direct/mixed zone management	20132795
2nd/3rd direct/mixed zone management	20132796
SEALED TRANSFORMATION (TYPE C)	
Type C transformation MOD 25	20132799
Type C transformation MOD 32	20132800
FUEL FILTER	
Oil filter	20132792
Ø80 mm SINGLE DISCHARGE OR TWIN SUCTION/DISCHARGE	
Ø120/80 - Ø80/80 mm twin adapter	20180504
45° bend Ø80	20162295
90° bend Ø80	20162296
90° bend Ø80 with inspection	20162297
Extension L = 500 mm Ø80 mm	20162298
Extension L = 1000 mm Ø80 mm	20162299

TERMINAL UNITS

Description	Code
Extension L = 2000 mm Ø80 mm	20162300
Horizontal terminal Ø80 mm	20162442
SINGLE EXHAUST OR CONCENTRIC INTAKE/EXHAUST SYSTEM Ø80/125 mm	
Concentric exhaust adapter Ø80/125 mm	20132801
HYDRAULIC ACCESSORIES	
Hydraulic separator	20132798

HI, COMFORT CONTROLS

Room controls with capability of remote boiler interface (*) and management through APP

Drawing	Description	Notes	Code
Si o	Hi, Comfort T100 Wi-Fi	(1)	20193354
50.8	Hi, Comfort T100	(2)	20193352
Kinder	Hi, Comfort G100-W		20193355
е	Hi, Comfort G100-R		20193356

- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON/OFF mode.
 (1) With Hi, Comfort G100-W, included, for intrnet connection by means of ADSL Wi-Fi router.
 (2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for internet connection via home ADSL modem).



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HEAT PUMPS



ARIA/ACQUA MONOBLOCCO



NEXAQUA

NEXAQUA 80÷120

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NEXPRO 300 PLUS

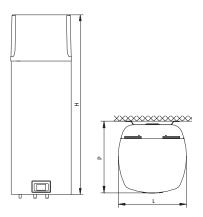
NEXPRO 300 PLUS

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AUGUST 2024 EDITION

DHW air-water heat pump

NexAqua







• Highest efficiency energy efficiency class A+

Description	H mm	L mm	P mm
NexAqua 80-80 Plus	1197	506	533
NexAqua 120-120 Plus	1497	506	533

NexAqua is Riello solution specifically designed to enhance DHW production in domestic applications. The unit consists mainly of a mini heat pump and a tank. The mini-heatpump, located in the upper part of the tank, heat the water contained in the in the 80-120 liters tank up to 55 °C in heat pump operation and up to 75 °C thanks to the additional electrical resistances. A centrifugal fan sucks the air and allows the heat pump to operate in recirculation or in particular installation places, through pipes up to 15 m length with a DN 125 diameter. The energy recovered in this way is then transferred to water by an external exchanger located around the external surface of the tank, thus allowing a money-saving maintenance. The high efficiency of NexAqua derives from a refrigeration circuit in R134A, which heat water up to 55 °C.

The tank is provided with 2 electrical resistances of 1,0 kW (each) as standard supply.

- Touch Screen Display
- High efficiency coefficient
- 2 additional electrical resistances of 1,0 kW (each) as standard
- Centrifugal fan with high available pressure for air duct systems
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

TECHNICAL DATA

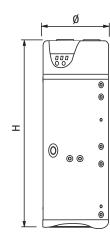
Description	Firing rate	Maximum power absorption average (2) W	Efficiency coefficient (1) COP	Air flow rate m³/h	Recovery time h:min (1)	Volume liters	Energy efficiency class (3)	Code
NexAqua 80	+7/35 °C	350	3.1	100-230	4:40	80	A+	20075560
NexAqua 80 Plus	- 7/35 °C	350	3.1	100-230	4:40	80	A+	20075563
NexAqua 120	+7/35 °C	350	3.1	100-230	6:40	120	A+	20075562
NexAqua 120 Plus	- 7/35 °C	350	3.1	100-230	6:40	120	A+	20075565

- Performance values refer to the following conditions: (1) Compliance with EN 16147: room air temperature 15 °C with 74% humidity, DHW from 10 °C to 55 °C
- (2) Value refers to heat pump operation without additional electrical resistances (3) M load profile



DHW air-water heat pump

NexPro 300 Plus



ERP

• Highest efficiency energy efficiency class A+

Description	H mm	ø mm	Net weight kg
NexPro 300 Plus	1870	660	122
NexPro 300 S Plus	1870	660	137
NexPro 300 CS Plus	1870	660	155

NexPro 300 Plus is the Riello solution dedicated to domestic hot water production in residential applications.

The unit consists of a heat pump and a tank with 300 I capacity. The heat pump, placed directly on the upper part of the tank, uses the thermal energy of the air to heat the water contained in the tank.

The air is sucked by a centrifugal fan that allows the heat pump to operate in recirculation or through pipes up to 10 m length with a DN 160 diameter. The energy recovered is then transferred to water by an external exchanger located around the external surface of the tank, thus avoiding maintenance costs.

The high efficiency of NexPro 300 Plus derives from a refrigeration circuit in R134A, a high efficiency compressor, an electronic expansion valve and a bypass valve for hot gases to allow the operation up to -5 °C.

The tank is provided with a double enameled coating (DIN 4753) and a 1,5 kW electrical resistance as standard supply. The resistance accomplishes the four main functions: additional heating, frost protection, emergency heating and anti-legionella protection.

The whole system is managed and adjusted by an "intelligent" control device, to allow the best operation of each component.

- DHW production up to a temperature of 60 °C
- High efficiency coefficient
- Additional electrical resistance of 1,5 kW as standard
- Centrifugal fan with high available pressure for air duct systems
- Double enameled DHW tank (DIN 4753)
- Solar integration through RSS pump station
- Operation range -5 °C/+32 °C
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

TERMINAL UNITS

LOW NOX INSTANTANEOUS - GAS



INDOOR

CONVENTIONAL FLUE

RIELLO

ACQUAFUN² LN

ACQUAFUN² 11 (19,4 kW-11 l/min)* ACQUAFUN² 14 (24,4 kW-14 l/min)*

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RIELLO MINI LN

RIELLO MINI 11 LN (19,9 kW-11 l/min)* RIELLO MINI 13 LN (22,5 kW-13 l/min)* RIELLO MINI 17 LN (27,6 kW-17 l/min)*

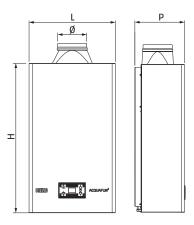
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* DHW production with ΔT = 25 °C

Conventional flue low NOx instantaneous gas water heater

Acquafun² LN









- Natural gas and LPG
- Conventional flue
- Automatic battery-powered ignition
- Reduced N0x emissions

Description	H mm	L mm	P mm	ø mm	Net weight kg
ACQUAFUN ² 11 LN	675	350	230	110	12
ACQUAFUN ² 14 LN	675	400	230	130	12

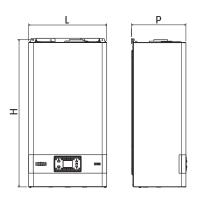
Acquafun2 LN is the open chamber water heater that is quick and easy to install without electrical connections because the power supply comes from a battery. It is available in two models: 11 and 14 litres. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for indoor installation
- User interface with backlit display, intuitive control keys and battery replacement LED
- Auto-adaptive system with thermostatic device
- Automatic ignition using the battery; 2 batteries supplied (1.5 Volt size D)
- The continuous flame modulation allows the selected temperature to remain constant when the water pressure ad output varies optimising the combination at the mechanical and thermostatic mixers
- Good flame stability
- Temperature probe on the water outlet
- Thanks to its particularly compact dimensions it can be installed in confined areas of the home

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Code
VERSION WITH ROOM-SEALED WITH NATURAL DRAFT - AUTOMATIC E	BATTERY IGNITION				
ACQUAFUN ² 11 LN	19.4-22.0	11.0	NG	A	20149827
ACQUAFUN ² 11 LN	18.3-21.0	11.0	LPG	А	20149831
ACQUAFUN ² 14 LN	24.4-28.0	14.0	NG	А	20149833
ACQUAFUN ² 14 LN	24.7-28.0	14.0	LPG	А	20149834

Room sealed low N0x instantaneous gas water heater



Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 LN	642	340	237	19
RIELLO MINI 13 LN	642	340	237	19
RIELLO MINI 17 LN	640	400	246	21

RIELLO MINI LN



- Natural gas and LPG
- Room-sealed
- Electronic ignition
- Reduced N0x emissions

Riello Mini is a small boiler intended specifically to generate domestic hot water. It is available in models with 11, 13 and 17 litres per minute. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for indoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate I/min.	Fuel	Energy efficiency class	Notes	Code
VERSION WITH FORCED DRAFT CONVENTIONAL FLUE -	- ELECTRONIC IGNITI	ON				
RIELLO MINI 11 LN	19.9-22.2	11.0	NG	А	(1)(2)	20143047
RIELLO MINI 11 LN	19.9-22.2	11.0	LPG	А	(1)(2)	20143048
RIELLO MINI 13 LN	22.5-25.0	13.0	NG	А	(1)(2)	20143049
RIELLO MINI 13 LN	22.5-25.0	13.0	LPG	А	(1)(2)	20143050
RIELLO MINI 17 LN	27.6-30.0	17.0	NG	Α	(1)(2)	20143051
RIELLO MINI 17 LN	27.6-30.0	17.0	LPG	Α	(1)(2)	20143052

For low temperature installation (down to -10 °C), the anti-freeze resistors kit is available (code 20148036)

The water heater can be installed also outdoors in a partially protected place, where it is not exposed directly to the elements. For these installations we recommend using anti-freeze systems that can adequately protect the appliance from the risk of freezing. Contact the pre-sales service for clarification or support.

ACCESSORIES

Accessories	
Description	Code
ELECTRICAL ACCESSORIES	
Anti-freeze resistors kit	20148036
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624



FLUE OPTION SYSTEMS	
FOR CONDENSING	158
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TERMINAL UNITS

METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material	Family (1)	Family Aqua Condens	Residence (1)	Start (1)	Start Aqua Condens	Start AR	Code
	Ø80 mm twin system kit	Met	•	•	•	•	•	•	20162456
	Flue adapter Ø80 mm with air inlet	Met	•	•	•	•	•		20162448
	45° Ø80 mm bend	Met	•	•	•	•	•	•	20162295
	90° Ø80 mm bend	Met	•	•	•	•	•	•	20162296
	Extension 50 cm Ø80 mm	Met	•	•	•	•	•	•	20162298
	Extension 100 cm Ø80 mm	Met	•	•	•	•	•	•	20162299
	Horizontal flue terminal Ø80 mm	Met	•	•	•	•	•	•	20162442
_	Spacers for pipe Ø80 mm	Met	•	•	•	•	•	•	20137532
	90° bend with inspection door Ø80 mm	Met	•	•	•	•	•	•	20162297

(1) For boiler start-up, see the section on the flue 60/100 and only afterwords switch to diameter 80/125.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length.

PLASTIC Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Drawing	Description	Material (*)					S		Notes	Code
							Start Aqua Condens			
				dna	e e		la Co			
			li y	Family Aqua Condens	Residence	_	t Aqu	t AR		
			Family	Fam	Resi	Start	Star	Start		
	Adjustable splitter device kit from Ø60/100 mm to Ø80/-80 mm	PP	•		•	•			(1)	20134830
				-						
	Compact swelling kit Ø60/100 - Ø80/80	PP	•		•	•			(1)	20190475
9	Fixed twin system Ø80 mm kit	PP	•		•	•			(1)	20129765
	Splitter device kit B23 Ø80 mm for in-wall installation box	PP	•		•	•			(1)	20129768
	Twin system Ø80 mm kit	PP	•		•				(1)	20137501
	Ø80 mm twin system kit	PP		•				•	(1)	20137523
	Flue gas exhaust kit B23 Ø80 mm	PP	•		•	•			(1)	20129769
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(1)	20137503
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(1)	20137506
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	20137508
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	20137509
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(1)	20137511
	Horizontal flue collector Ø80 mm	PP	•	•	•	•	•	•	(1)	20137517
	Horizontal air inlet collector Ø80 mm	PP	•	•	•	•	•	•	(1)	20137515
	Ø80 mm clapet with condensate trap	PP	•	•	•	•	•	•	(1)	20164664

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/Met Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Drawing	Description	Material (*)	Family Aqua Condens	Start Aqua Condens	Notes	Code
	45° Ø60/100 mm concentric bend	PP/Met	•	•	(1)(2)	20142823
	90° Ø60/100 mm concentric bend	PP/Met	•	•	(1)(2)	20142825
	Concentric extension 50 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	20142829
	Concentric extension 100 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	20142830
	Concentric extension 200 cm, Ø60/100 mm	PP/Met	•	•	(1)(2)	20142831
	Ø60/100 mm horizontal flue terminal	PP/Met	•	•	(1)(2)	20142836
	Ø60/100 mm vertical flue terminal	PP/Met	•	•	(1)(2)	20142839
	Ø60/100 mm inspection extension	PP/Met	•	•	(1)(2)	20142835
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	(1)(2)	20142828
□□□	Flat roof tile	Nylon	•	•		20135579
	Pitched roof tile	Nylon	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).

(1) P1 pressure level according to EN 1443.

(2) Until stocks are exhausted.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60/100 mm concentric bend	PP/PP	•	•	•	•	•	•	(1)	20132012
	90° boiler start bend kit Ø60/100 mm	PP/PP	•		•	•		•	(1)	20129172
	90° Ø60/100 mm concentric bend	PP/PP		•			•		(1)	20132013
	Concentric extension 50 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	20132043
	Concentric extension 100 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	20132044
	Concentric extension 200 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(1)	20132045
01 33°	Wall collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	20129175
	Telescopic wall collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	20129176
de Ti	Ø60/100 mm horizontal flue terminal	PP/PP		•			•		(1)	20132018
	Vertical collector Ø60/100 mm	PP/PP	•		•	•		•	(1)	20129177
	Ø60/100 mm vertical flue terminal – Ø125 mm external straight pipe	PP/PP		•			•		(1)	20132020
	Vertical connection Ø60/100 mm	PP/PP	•		•	•		•	(1)	20129174
	Ø60/100 mm inspection extension	PP/PP	•	•	•	•	•	•	(1)	20132015
	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).
(1) H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

PP/Met Ø80/125 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS - H1 CLASS (*)

Di	Description	N4-4:-1 (*)							Notes	C- 1-
Drawing	Description	Material (*)		Family Aqua Condens	Residence (**)	Start (**)	Start Aqua Condens	Start AR	Notes	Code
			Б	<u>Б</u> 8	Re	Şţ	St	St		
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(1)	20164651
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(1)	20164653
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164657
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164659
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164660
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164655
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164661
	Ø80/125 mm vertical flue terminal	PP/Met	•	•	•	•	•	•	(1)	20164669
	Ø80/125 mm horizontal flue terminal	PP/Met	•	•	•	•	•	•	(1)	20164673
\bigcirc	Spacers Ø80-125 mm (5 pcs)	Met	•	•	•	•	•	•		20164665
	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164666
	Flue adapter from Ø60/100 mm to Ø80/125 mm	PP/Met	•	•	•	•	•	•	(1)	20164666
	Ø80/125 mm clapet with condensate trap	PP/Met	•	•	•	•	•	•	(1)	20164662
Д	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 – High Positive pressure (max 5,000 Pa). (**) 60/100 boiler connection kit (cod. 20129174) and 60/100 to 80/125 adapter (cod. 20164666) are mandatory.

^(**) BO/100 boller connection kit (cod. 20129114) and bo/100 to Bo/123 adapter (cod. 20104000) are managed y.

(1) H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

PLASTIC (PP) Ø80 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING **BOILERS - H1 CLASS (*)**

Drawing	Description	Material (*)		ens			SI		Notes	Code
				Family Aqua Condens			Start Aqua Condens			
				dna (e e		la Co			
			ij	ily A	Residence		t Aqı	Start AR		
			Family	Fam	Resi	Start	Star	Star		
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	2016457
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	2016457
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	2016457
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	2016457
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	2016457
	Ø80/125 mm chimney adapter	PP	•	•	•	•	•	•	(2)	2013252
ß	T connection Ø60 mm	PP	•	•	•	•	•	•	(2)	2016458
	Ø60/80 mm adapter	PP	•	•	•	•	•	•	(2)	2016458
	Chimney support kit Ø80 mm	PP	•	•	•	•	•	•	(2)	2013250
***	Pipe spacers	PP	•	•	•	•	•	•		2013250
	Ø80 mm inspection extension	PP	•	•	•	•	•	•	(2)	2013250
	Ø80 mm roof tile	PP	•	•	•	•	•	•	(2)	2013250
	Ø80 mm flexible extension (12,5m) with 8 spacers	PP	•	•	•	•	•	•	(2)	2013250
	Rigid/flexible connection Ø80 mm M	PP	•	•	•	•	•	•	(2)	2013251
	Flexible/rigid connection Ø80 mm F	PP	•	•	•	•	•	•	(2)	2013251
	Syphon kit	PP	•	•	•	•	•	•		2004678
	T connection Ø80 mm	PP	•	•	•	•	•	•	(1)	2016301
귵	Condensate trap cap for T-connection Ø80 mm	PP	•	•	•	•	•	•	(1)	2016301
	Shelf support kit for condensate trap	Met	•	•	•	•	•	•		2014588
	Flue cover panel kit		•	•	•	•	•	•		2014588

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa).

⁽¹⁾ PI pressure level according to EN 1443.
(2) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443). NOTE: please, refer to boiler installation manual for maximum flue line length.

TERMINAL UNITS

PLASTIC (PP) Ø60 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING **BOILERS - H1 CLASS (*)**

Drawing	Description	Material (*)		S				Notes	Code
			Family	Family Aqua Condens	Residence	Start Aqua Condens	Start AR		
	45° Ø60 mm bend	PP	•	•	•	•	•	(1)	20145877
	90° Ø60 mm bend	PP	•	•	•	•	•	(1)	20145876
	Extension 50 cm Ø60 mm	PP	•	•	•	•	•	(1)	20145879
	Extension 100 cm Ø60 mm	PP	•	•	•	•	•	(1)	20145882
	Extension 200 cm Ø60 mm	PP	•	•	•	•	•	(1)	20145883
	Ø60/100 mm vertical flue terminal – Ø100 mm external straight pipe	PP/PP	•	•	•	•	•	(1)	20145884
	3 spacers kit for inside-chimney Ø60 mm	PP	•	•	•	•	•		20145886
	Shelf support kit for inside-chimney	PP	•	•	•	•	•		20145888
	Chimney front cover kit	PP	•	•	•	•	•		20145889
	5 hose clamps kit Ø60 mm	PP	•	•	•	•	•		20145890
	Chimney connection kit Ø80-60 mm with bend 90° Ø60 mm	PP	•	•	•	•	•	(1)	20145892
	T-connection Ø60 mm with condensate trap	PP	•	•	•	•	•	(1)	20145894
	Syphon kit	PP	•	•	•	•	•		20046782
	Flue reduction kit 80-60 mm	PP	•	•	•	•	•	(1)	20145897

^(*) PP material: colour may change over time because of sun's rays exposure. Class H1 - High Positive pressure (max 5,000 Pa). (1) H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.



METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material				Notes	Code			
			Family	Start	Fastech					
	Ø80 mm twin system kit	Met	•	•		(1)	20162667			
	Air box twin system kit	Met	•	•	•	(1)	20162666			
	45° bend Ø80 mm with gasket	Met	•	•	•	(1)	20162295			
	90° bend Ø80 mm with gasket	Met	•	•	•	(1)	20162296			
	Ø80 mm extension 100 cm with gasket	Met	•	•	•	(1)	20162299			
	Ø80 mm extension 50 cm with gasket	Met	•	•	•	(1)	20162298			
	Ø80 mm extension 195 cm with gasket	Met	•	•	•	(1)	20162300			
	Air intake collector	Met	•	•	•	(1)	20162665			
	Flue collector horizontal	Met	•	•	•	(1)	20162664			
0	Spacers for Ø80 mm pipe (10 pcs)	Met	•	•	•		20137532			
	Ø80 mm condensate trap horizontal	Met	•	•	•	(1)	20162662			
	Ø80 mm condensate trap vertical	Met	• • •			(1)	20162663			
	Ø80 mm pipes terminal	Met	•	•	•	(1)	20162443			
	90° bend with inspection door Ø80 mm (Slovenia)	Met	•	•	•	(1)	20162297			

(1) P1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length



MET/MET Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material				Notes	Code
			<u>></u>		ch		
			Family	Start	Fastech		
П							
П	Ø60-100 mm vertical flue terminal - Ø125 mm external straight pipe	Met/Met	•	•	•	(1)	20163422
	Standard collector horizontal	Met/Met	•	•	•	(1)	20163408
H	Telescopic collector horizontal extensible from 43 to 73,5 cm	Met/Met	•	•	•	(1)	20163410
8	Concentric extension Ø60-100 mm (75 cm)	Met/Met	•	•	•	(1)	20163391
8	Concentric extension Ø60-100 mm (147 cm)	Met/Met	•	•	•	(1)	20163393
	90° bend Ø60-100 mm	Met/Met	•	•	•	(1)	20163333
<u> </u>	90° bend kit Ø60-100 mm for installation replacement	Met			•	(1)	20163388
	Jo Sand Magaa and Magaalan and Agaas					.,	
	45° bend Ø60-100	Met/Met	•	•	•	(1)	20163327
	Ø60-100 mm condensate trap vertical	Met/Met	•	•	•	(1)	20163403
	·						
Ä	dco 100 mm condensate trans having at the	M-+/M-+			•	(1)	201621.00
Ľ ,⊥ ⊮Ω	Ø60-100 mm condensate trap horizontal	Met/Met		ľ		(1)	20163400
	Clip kit H 45 mm with gasket Ø100 mm (4 pcs)		•	•	•		20163429
	Pipe spacers Ø100 mm (4 pcs)	Met	•	•	•		20135584
	Ø60-100 mm telescopic extension (from 165 to 220 mm)	Met/Met	•	•	•	(1)	20163396
	Ø60-100 mm 90° bend with inspection door	Met/Met	•	•	•	(1)	20163390
	200 100 mm 20 Dena with inspection door	Medimet	_			(1)	20103330
	Connection clip kit boiler-flue Ø60-100 mm		•		•		20163425
#=	connection clip kit boller-like you-loo lilli		_				20103423
	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050

(1) P1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.



MET/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material				Notes	Code
			Family	Start	Fastech		
	45° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20162785
	90° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20162786
	90° Ø60–100 mm concentric bend in Met/PPu – for boiler connection	Met/PP	•	•	•	(1)	20162791
	Concentric extension M-F Ø60-100 mm in Met/PPu (500 mm)	Met/PP	•	•	•	(1)	20162793
	Concentric extension M-F Ø60-100 mm in Met/PPu (1000 mm)	Met/PP	•	•	•	(1)	20162795
	Concentric extension M-F Ø60-100 mm in Met/PPu (2000 mm)	Met/PP	•	•	•	(1)	20162796
	Ø60-100 mm vertical flue terminal; Ø125 mm external straight pipe	Met/PP	•	•	•	(1)	20162797
	Ø60-100 mm concentric horizontal flue terminal in Met/PPu	Met/PP	•	•	•	(1)	20162798
	Ø60-100 mm telescopic horizontal flue terminal in Met/PPu (extensible from 500 mm to 800 mm)	Met/PP	•	•	•	(1)	20162799
□□□	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050

(1) P1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

TWIN FLUE GAS EXHAUST SYSTEM Ø80 mm MADE OF METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Twin system without flue gas analysis outlet	Met	(1)	1220329
6.6 8	Twin system connection kit	Met	(1)(3)	20162668
	Twin system connection kit	Met	(1)(4)	20162669
	Bend 45° Ø80 with gasket	Met	(1)	20162295
	Bend 90° with gasket	Met	(1)	1220079
	Extension 100 cm with gasket	Met	(1)	1220269
	Extension 50 cm with gasket	Met	(1)	1220149
	Extension 195 cm with gasket	Met	(1)	1220229
	Type B22 flue gas exhaust kit for open air installation	Met	(1)	20162455
	Air suction terminal	Met	(1)	1220109
	Flue gas exhaust terminal	Met	(1)	1220119
ф	Spacer ring/support for Ø80 pipes (4 pieces)			20137532
	Horizontal condensation collection kit	Met		1220039
	Vertical condensation collection kit	Met		1220049
	Terminal for Ø80 mm pipes	Met	(1)	20162443
	Bend 90° Ø80 mm with inspection	Met	(1)	20162297

P1 pressure level according to EN 1443

⁽¹⁾ Pt pressure level according to EN 1443
(2) H1 pressure level according to EN 1443
(3) For Mini 11-13 LN versions
(4) For Mini 17 LN version
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1

pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length

COAXIAL FLUE GAS EXHAUST SYSTEM Ø60/100 mm MADE OF PP/METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
Ħ I	Vertical discharge kit	Met/Met	(1)	20163422
CH CH	Coaxial discharge terminal kit	Met/Met	(1)	20163409
	Telescopic coaxial discharge terminal kit (from 430 to 735 mm)	Met/Met	(1)	20163412
В	Coaxial extension (75 cm)	Met/Met	(1)	20163392
в	Double coaxial extension (147 cm)	Met/Met	(1)	20163394
	Coaxial bend 90°	Met/Met	(1)	20163334
	Coaxial bend 45°	Met/Met	(1)	20163330
Д	Tile for flat roof	Nylon		20135579
	Universal lead tile	Nylon		20132050
	Vertical coaxial condensation collection kit	Met/Met		20163403
İ	Horizontal coaxial condensation collection kit	Met/Met		20163400
	Clamps kit H 45 mm with gasket Ø100 mm (4 pieces)			20163427
\$	Spacer ring/support for Ø100 pipes (10 pieces)			20135584
	Telescopic manifold 60-100 mm (from 165 to 220 mm)	Met/Met	(1)	20163396
	Combustion analysis sockets kit			20163430
	Bend 90° Ø60 -100 mm with inspection	Met/Met	(1)	20163390
60	Bend adaptor kit Ø60-100 mm (for replacing Mini 11 and 13 with rear flue gas exhaust)	Met/Met	(1)	20122792

(1) P1 pressure level according to EN 1443
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)
NOTE: please, refer to boiler installation manual for maximum flue line length



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SOLAR SYSTEMS

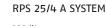


SYSTEMS FOR DHW PRODUCTION

FORCED CIRCULATION

FLAT PLATE SOLAR COLLECTOR

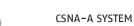
2 FITTINGS



200 liters 300 liters 430 liters 550 liters 800 liters 1000 liters

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NATURAL CIRCULATION





4 FITTINGS

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AUGUST 2024 EDITION



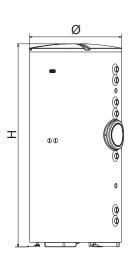


Forced circulation systems

RPS 25/4 A System

NEW





Domestic hot water production

Complete and integrated system for the production of domestic hot water, dedicated to household customers. It consists of all the elements necessary for the construction of the solar system and is designed for a simple and safe installation.

The system consists of:

- High-efficiency RPS 25/4 A solar collectors, thanks to the selective absorber TiNOx Energy Al.
- The RSS MRS hydraulic unit is complete with a modulating circulator, safety devices, load valves, non-return valve, delivery and return thermometers, pressure gauge and EVOSOL control unit for solar system management.
- RBS 2S heater, in dual coil steel, internally glazed to ensure hygiene and facilitate cleaning of limescale deposits; with excellent aesthetic finishes (in embossed ABS) and energy performance.
- Expansion reservoir, designed to withstand high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible fluid.
- 3/4" thermostatic mixer to optimize the system.
- 5-year warranty on both collectors and heater.
- Wide selection of bracket kits to meet all installation needs.

For more details on heater and solar panel please refer to the dedicated product pages.

TECHNICAL DATA

Description	Solar c	ollectors	Glycol	Expansion	Number		Solar	Notes	Code		
	Number	Gross area m²	quantity kg	vessel liters	of people	Capacity liters	H mm	ø mm	Energy efficiency class		
RPS 25/4 A 200	1	2,5	10	18	2-3	208	1338	604	В	(1)	20218084
RPS 25/4 A 300	2	5	10	18	4-5	301	1838	604	В	(1)	20218085
RPS 25/4 A 430	3	7,5	15	24	6-7	430	1644	755	В	(1)	20218086
RPS 25/4 A 550	4	10	20	35	8-9	551	1988	755	В	(1)	20218087
RPS 25/4 A 800	5	12,5	20	50	10-11	731	1846	1000	В	(1)(2)	20218088
RPS 25/4 A 1000	6	15	20	50	12-13	883	2171	1000	В	(1)(2)	20218090

Components provided in a single pallet. Heater supplied with insulation disassembled.

All solar systems include: solar collectors, bivalent solar tank with RSS hydraulic group with integrated EVOSOL solar regulator, glycol, expansion tank and thermostatic

RPS 25/4 A Systems Configurations

		20116675	20116335	20117339	20116587	20132268	20132269	20116166	20201316	20201047	20201317	4383085	4383059	4383052	4383053	4383054	4383256	20020778	20201448	20201449	20201450	20201451	20201453	20201454
Code	Description	RBS 200 2S	RBS 300 2S	RBS 430 2S	RBS 550 2S	RBS 800 2S	RBS 1000 2S	RSS MRS	RPS 25/4 A	RPS 25/4 A X2	RPS 25/4 A X5	Kit glicole 5 kg	Kit glicole 10 kg	18 It expansion vessel with bracket	24 It expansion vessel with bracket	35 It expansion vessel with bracket	50L expansion vessel	1" thermostatic mixing valve with 3/4" adapter	Hydraulic kit for 1 collector "A"	Hydraulic kit for 2 collector "A"	Hydraulic kit for 3 collector "A"	Hydraulic kit for 4 collector "A"	Hydraulic kit for 5 collector "A"	Hydraulic kit for 6 collector "A"
20218084	RPS 25/4 A 200	1						1	1				1	1				1	1					
20218085	RPS 25/4 A 300		1					1		1			1	1				1		1				
20218086	RPS 25/4 A 430			1				1	1	1		1	1		1			1			1			
20218087	RPS 25/4 A 550				1			1		2		1	1			1		1				1		
20218088	RPS 25/4 A 800					1		1			1		2				1	1					1	
20218090	RPS 25/4 A 1000						1	1	1		1		2				1	1						1

For further information on available accessories, see the dedicated section

TERMINAL UNITS

ACCESSORIES FOR RPS 25/4 A - VERTICAL INSTALLATION

Denominazione commerciale	Notes	Codice n.
HYDRAULIC ACCESSORIES		
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/stainless steel pipe DN16)	(1)	20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/stainless steel pipe DN16)		20132220
Manual solar air vent kit	(2)	20026577
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(1)	4383255
FLOW RATE REGULATORS		
Flow rate regulator 12 (DN20; 2-12 l/min; kvs=2,2 m³/h)		20011536
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m³/h)		20011538
Manual solar air vent kit		20026577
ACCESSORIES FOR FLAT ROOF WITH 30-45° INCLINATION		
Brackets 1 COLL. 2,5m ² "A" FR 30-45°		20201443
Extension +1 COLL. 2,5m ² "A" FR 30-45°		20201444
ACCESSORIES FOR INCLINED ROOF		
Brackets 1 COLL. 2-2,5 "A" under tile IR		20201446
Brackets 2 COLL. 2-2,5 "A" under tile IR		20201447
Extension +1 COLL. 2-2,5 "A" under tile IR		20201611
Kit 4 hooks for IR - COLL. "A"		20201445
Kit 6 hooks for IR - COLL. "A"		20202639
HYDRAULIC KIT FOR SOLAR COLLECTORS TYPE "A"		
Hydraulic kit for 1 collector "A"		20201448
Hydraulic kit for 2 collectors "A"		20201449
Hydraulic kit for 3 collectors "A"		20201450
Hydraulic kit for 4 collectors "A"		20201451
Hydraulic kit for 5 collectors "A"		20201453
Hydraulic kit for 6 collectors "A"		20201454
Hydraulic kit for 7 collectors "A"		20201455
Hydraulic kit for 8 collectors "A"		20201457
Hydraulic kit for 9 collectors "A"		20201458
Hydraulic kit for 10 collectors "A"		20201459

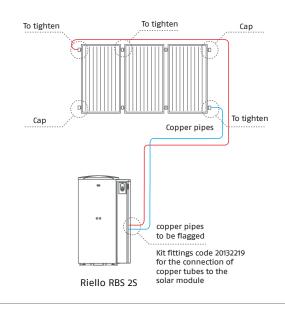
⁽¹⁾ Fittings kit to be ordered with the stainless steel flexible pipe. (2) Stainless steel flexible pipe, insulated, without fittings.

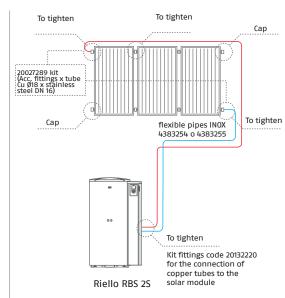
For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the catalog.

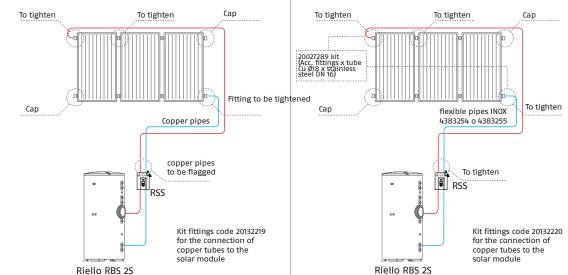
SOLAR SYSTEMS CONNECTION DIAGRAMS

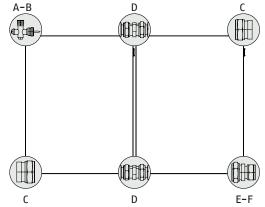
DN22 copper pipes connections

DN16 stainless steel pipes connections









- A T-joint with inspection chamber and vent valve (ø 22x18 mm)
- B Hot water from the manifold to the heat exchange circuit
- C Cap (ø 22 mm)

- D Joint fitting (ø 22x22 mm)
- E Inlet fitting (ø 22x18 mm)
- ${\sf F}$ Cold water to the manifold from the heat exchange circuit

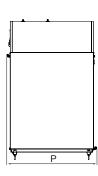
Solar system-Natural circulation system

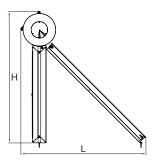
CSNA-A System

NEW

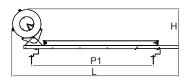


- Domesti hot water production
- Solar keymark certificate









Description	H mm	L mm	P mm	Net weight kg
CSNA-A 160/2,5 45°	2006	1903	1314	93,4
CSNA-A 200/2,5 45°	2006	1903	1526	108,4
CSNA-A 200/4 45°	1727	1626	2578	131,3
CSNA-A 300/4 45°	1727	1626	2578	154,3
CSNA-A 300/5 45°	2006	1903	2524	166,8
CSNA-A 160/2,5 0°	689	2936	1314	93,4
CSNA-A 200/2,5 0°	689	2936	1526	108,4
CSNA-A 200/4 0°	689	2948	2498	131,3
CSNA-A 300/4 0°	689	2948	2498	154,3
CSNA-A 300/5 0°	689	2948	2498	166,8

Plant solutions dedicated to the production of domestic hot water for residential applications, even in climate areas that are not particularly favorable.

They are made up of pre-assembled elements and do not require a pump or electronic controls, thus ensuring simple and quick installation.

The supply consists of:

- High efficiency, well insulated solar collector with highly selective aluminum absorber.
- Enamelled cylinder with polyurethane insulation and magnesium anode.
- Brackets for the installation parallel to the roof or inclined at 45° on flat surfaces.
- Supplementary single-phase electric resistance (can also be used as antifreeze) already present in the cylinder.
- Antifreeze liquid.
- Solar Keymark certified solar panels.
- Solar Keymark certified solar system.
- 5 year warranty on the system.

TECHNICAL DATA

Description	Solar co	ollectors	Glicol	Number of	Capacity liters	Notes	Code			
	Number	Gross area m²	kg	people	inters					
KIT FOR FLAT ROOF WITH 45° OF INCLINA	KIT FOR FLAT ROOF WITH 45° OF INCLINATION									
CSNA-A 160/2,5 45°	1	2,49	2	3	151	(2)	20202369			
CSNA-A 200/2,5 45°	1	2,49	3	3-4	192	(2)	20202374			
CSNA-A 200/4 45°	2	2	3	4	192	(2)	20202377			
CSNA-A 300/4 45°	2	2	4	4-5	295	(2)	20202378			
CSNA-A 300/5 45°	2	2,49	4	5	295	(2)	20202409			
KIT FOR INCLINED ROOF										
CSNA-A 160/2,5 0°	1	2,49	2	3	151	(1)	20202184			
CSNA-A 200/2,5 0°	1	2,49	3	3-4	192	(1)	20202185			
CSNA-A 200/4 0°	2	2	3	4	192	(1)	20202225			
CSNA-A 300/4 0°	2	2	4	4-5	295	(1)	20202226			
CSNA-A 300/5 0°	2	2,49	4	5	295	(1)	20202227			

ACCESSORIES

Description			
DIVERTER VALVES AND THERMOSTATIC VALVES			
1" thermostatic mixing valve with 3/4" adapter	20020778		
EXPANSION VESSELS			
18 It expansion vessel with bracket	4383052		
24 It expansion vessel	4383053		

SOLAR THERMAL ACCESSORIES

Description	Notes	Code
FITTINGS AND STAINLESS STEEL PIPES		
2 straight fittings kit to be tightened to connect the solar collectors with DN18 copper pipes		20027281
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		20055236
Kit of two fittings to tighten terminals	(2)	20094627
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/stainless steel pipe DN16)		20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		20132220
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe	(1)	20132143
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383255
FLOW RATE REGULATORS		
Flow rate regulator 12 (DN20; 2-12 I/min; kvs=2,2 m³/h)		20011536
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m³/h)		20011538
Manual solar air vent kit		20026577
GLYCOL		
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383085
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383059
20 kg pre-mixed glycol for CSV R (ready-to-use heat transfer liquid, suitable for vacuum collectors, frost-protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
EXPANSION VESSELS		
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383052
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383053
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383054
50L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383256
100L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383257
150L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383258
300L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383259
OTHER ACCESSORIES		
³¼" thermostatic mixing valve kit		20020778
Differential electronic thermostat		20039694

⁽¹⁾ Fittings kit to be ordered with the stainless steel flexible pipe. (2) Stainless steel flexible pipe, insulated, without fittings.

SOLAR COLLECTORS





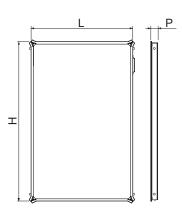






Vertical flat solar panels

RPS 25/4 A



•	4 Hydraulic compression
	fittings of 22mm
	Descibility of connecting

- Possibility of connecting in series up to 10 collectors vertically
- Solar Keymark certificate
- 5-year warranty for solar panel

Description	H mm	L mm	P mm	Net weight kg
RPS 25/4 A	2020	1235	85	35
RPS 25/4 A X2	2020	1235	85	35
RPS 25/4 A X5	2020	1235	85	35
RPS 25/4 A X7	2020	1235	85	35

NEW

The solar collector RPS 25/4 A can be used for vertical installations. It is equipped with an aluminum absorber plate with high selective finishing in TiNOx Energy AI that allows 95% energy absorption on the surface and reduce its emission to 4%.

On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs.

The high transparency sun glass guarantees high transmissivity.

Along with the glass wool insulation, that is 30 mm thickness, guarantees high efficiency even in case of bad weather conditions. It is possible to connect in series up to 10 panels in vertical installations. A wide range of accessories and fixing systems is available to ensure maximum installation flexibility.

The solar collector complies with EN 12975, ISO 9806 and is Solar Keymark certified.

5 year warranty.

TECHNICAL DATA

Description	Solar	collectors		Absorber data		Stagnation		
	Gross area m²	Absorbed area m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C	Notes	Code
RPS 25/4 A	2,49	2,38	0,76	2,990	0,027	180	(1)	20201316
RPS 25/4 A X2	4,98	4,76	0,76	2,990	0,027	180	(2)	20201047
RPS 25/4 A X5	12,45	11,9	0,76	2,990	0,027	180	(2)	20201317
RPS 25/4 A X7	17,43	16,66	0,76	2,990	0,027	180	(2)	20201754

 $\eta 0$ = optical efficiency.

a1, a2 = heat loss coefficients.
(1) One single collector in one package
(2) Collectors supplied in pallet of 2, 5 or 7 pcs

ACCESSORIES FOR RPS 25/4 A - VERTICAL INSTALLATION

Denominazione commerciale	Codice n.
ACCESSORIES FOR FLAT ROOF WITH 30-45° INCLINATION	
Brackets 1 COLL. 2,5m ² "A" FR 30-45°	20201443
Extension +1 COLL. 2,5m ² "A" FR 30-45°	20201444
ACCESSORIES FOR INCLINED ROOF	
Brackets 1 COLL. 2-2,5 "A" under tile IR	20201446
Brackets 2 COLL. 2-2,5 "A" under tile IR	20201447
Extension +1 COLL. 2-2,5 "A" under tile IR	20201611
Kit 4 hooks for IR - COLL. "A"	20201445
Kit 6 hooks for IR - COLL. "A"	20202639
HYDRAULIC KIT FOR SOLAR COLLECTORS TYPE "A"	
Hydraulic kit for 1 collector "A"	20201448
Hydraulic kit for 2 collectors "A"	20201449
Hydraulic kit for 3 collectors "A"	20201450
Hydraulic kit for 4 collectors "A"	20201451
Hydraulic kit for 5 collectors "A"	20201453
Hydraulic kit for 6 collectors "A"	20201454
Hydraulic kit for 7 collectors "A"	20201455
Hydraulic kit for 8 collectors "A"	20201457
Hydraulic kit for 9 collectors "A"	20201458
Hydraulic kit for 10 collectors "A"	20201459
HYDRAULIC ACCESSORIES	
2-fittings kit for the connection between DN18 copper pipe and hydraulic group	20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/ stainless steel pipe DN16)	20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/stainless steel pipe DN16)	20132220
Manual solar air vent kit	20026577
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	4383255

Note: The above-mentioned accessories do not include the collector probe, which is included in the EVOSOL accessory code 20120499 or can be purchased separately through the SOLAR COLLECTOR PROBE KIT code 20008787.

For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the catalog.

COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR RPS 25/4 A COLLECTORS

	20201443	20201444	20201448	20201449	20201450	20201451	20201453	20201454	20201455	20201457	20201458	20201459
	Brackets 1 COLL. 2,5m² "A" FR 30-45	Extension +1 COLL. 2,5m² "A" FR 30-45	Hydraulic Kit for 1 collector "A"	Hydraulic kit for 2 collectors "A"	Hydraulic Kit for 3 collectors "A"	Hydraulic kit for 4 collectors "A"	Hydraulic kit for 5 collectors "A"	Hydraulic kit for 6 collectors "A"	Hydraulic Kit for 7 collectors "A"	Hydraulic kit for 8 collectors "A"	Hydraulic kit for 9 collectors "A"	Hydraulic Kit for 10 collectors "A"
Kit for 1 COLL. 2,5M ² TP 30-45°	1		1									
Kit for 2 COLL. 2,5M2 TP 30-45°	1	1		1								
Kit for 3 COLL. 2,5M ² TP 30-45°	1	2			1							
Kit for 4 COLL. 2,5M ² TP 30-45°	1	3				1						
Kit for 5 COLL. 2,5M ² TP 30-45°	1	4					1					
Kit for 6 COLL. 2,5M ² TP 30-45°	1	5						1				
Kit for 7 COLL. 2,5M ² TP 30-45°	1	6							1			
Kit for 8 COLL. 2,5M ² TP 30-45°	1	7								1		
Kit for 9 COLL. 2,5M ² TP 30-45°	1	8									1	
Kit for 10 COLL. 2,5M2 TP 30-45°	1	9										1

COMPONENTS FOR VERTICAL INSTALLATIONS ON INCLINED ROOF WITH UNDER-TILE MOUNTING FOR RPS 20/4 A AND RPS 25/4 A COLLECTORS.

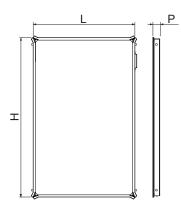
	20201446	20201447	20201611	20201445	20202639	20201448	20201449	20201450	20201451	20201453	20201454	20201455	20201457	20201458	20201459
	7	7	7	7	7	7	7	7	Ñ	7	7	7	Ñ	2	7
	Brackets 1 COLL. 2-2,5 "A" under tile IR	Brackets 2 COLL. 2-2,5 "A" under tile IR	Extension + 1 COLL. 2-2,5 "A" under tile IR	Kit 4 hooks for IR – COLL. "A"	Kit 6 hooks for IR – COLL. "A"	Kit 6 hooks for IR – COLL. "A"	Hydraulic kit for 2 collectors "A"	Hydraulic kit for 3 collectors "A"	Hydraulic kit for 4 collectors "A"	Hydraulic kit for 5 collectors "A"	Hydraulic kit for 6 collectors "A"	Hydraulic kit for 7 collectors "A"	Hydraulic kit for 8 collectors "A"	Hydraulic kit for 9 collectors "A"	Hydraulic kit for 10 collectors a
Kit for 1 COLL. 2-2,5M ² TI	1			1		1									
Kit for 2 COLL. 2-2,5M ² TI		1			1		1								
Kit for 3 COLL. 2-2,5M ² TI		1	1	1	1			1							
Kit for 4 COLL. 2-2,5M ² TI		1	2	2	1				1						
Kit for 5 COLL. 2-2,5M ² TI		1	3	3	1					1					
Kit for 6 COLL. 2-2,5M ² TI		1	4	4	1						1				
Kit for 7 COLL. 2-2,5M ² TI		1	5	5	1							1			
Kit for 8 COLL. 2-2,5M ² TI		1	6	6	1								1		
Kit for 9 COLL. 2-2,5M ² TI		1	7	7	1									1	
Kit for 10 COLL. 2-2,5M ² TI		1	8	8	1										1



Vertical flat solar panels

RPS 20/4 A

NEW



- 4 Hydraulic compression fittings of 22mm
- Possibility of connecting in series up to 10 collectors vertically
- Solar Keymark certified
- 5-year warranty for solar panel

Description	H mm	L mm	P mm	Net weight kg
RPS 20/4 A	1625	1235	85	29
RPS 20/4 A X2	1625	1235	85	29
RPS 20/4 A X7	1625	1235	85	29

The solar collector RPS 20/4 A can be used for vertical installations.

It is equipped with an aluminum absorber plate with high selective finishing in TiNOx Energy Al that allows 95% energy absorption on the surface and reduce its emission to 4%.

On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs.

The high transparency sun glass guarantees high transmissivity.

Along with the glass wool insulation, that is 30 mm thickness, guarantees high efficiency even in case of bad weather conditions. It is possible to connect in series up to 10 panels in vertical installations.

A wide range of accessories and fixing systems is available to ensure maximum installation flexibility.

The solar collector complies with EN 12975, ISO 9806 and is Solar Keymark certified.

5 year warranty.

TECHNICAL DATA

Description	Solar collectors			Absorber data		Stagnation			
	Gross area m²	Absorbed area m²	ηο	a1 W/m²K	a2 W/m²K²	temperature °C	Notes	Code	
RPS 20/4 A	2	1,9	0,76	2,990	0,027	180	(1)	20201319	
RPS 20/4 A X2	4	3,8	0,76	2,990	0,027	180	(2)	20201320	
RPS 20/4 A X7	14	13,3	0,76	2,990	0,027	180	(2)	20201321	

 $\eta 0$ = optical efficiency. a1, a2 = heat loss coefficients.

(1) One single collector in one package

(2) Collectors supplied in pallet of 2 or 7 pcs

TERMINAL UNITS

ACCESSORIES FOR RPS 20/4 A - VERTICAL INSTALLATION

Denominazione commerciale	Codice n.
ACCESSORIES FOR FLAT ROOF WITH 30-45° INCLINATION	
Brackets 1 COLL. 2m ² "A" FR 30-45	20201441
Extension +1 COLL. 2m ² "A" FR 30-45	20201442
ACCESSORIES FOR INCLINED ROOF	
Brackets 1 COLL. 2-2,5 "A" under tile IR	20201446
Brackets 2 COLL. 2-2,5 "A" under tile IR	20201447
Extension +1 COLL. 2-2,5 "A" under tile IR	20201611
Kit 4 hooks for IR - COLL. "A"	20201445
Kit 6 hooks for IR - COLL. "A"	20202639
HYDRAULIC KIT FOR SOLAR COLLECTORS TYPE "A"	
Hydraulic kit for 1 collector "A"	20201448
Hydraulic kit for 2 collectors "A"	20201449
Hydraulic kit for 3 collectors "A"	20201450
Hydraulic kit for 4 collectors "A"	20201451
Hydraulic kit for 5 collectors "A"	20201453
Hydraulic kit for 6 collectors "A"	20201454
Hydraulic kit for 7 collectors "A"	20201455
Hydraulic kit for 8 collectors "A"	20201457
Hydraulic kit for 9 collectors "A"	20201458
Hydraulic kit for 10 collectors "A"	20201459
HYDRAULIC ACCESSORIES	
2-fittings kit for the connection between DN18 copper pipe and hydraulic group	20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/ stainless steel pipe DN16)	20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/stainless steel pipe DN16)	20132220
Manual solar air vent kit	20026577
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	4383255

Note: The above-mentioned accessories do not include the collector probe, which is included in the EVOSOL accessory code 20120499 or can be purchased separately through the SOLAR COLLECTOR PROBE KIT code 20008787.

For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the catalog.

COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR RPS 20/4 A COLLECTORS

	20201441	20201442	20201448	20201449	20201450	20201451	20201453	20201454	20201455	20201457	20201458	20201459
	Brackets 1 coll. 2m² "A" FR 30-45	Extension +1 coll. 2m² "A" FR 30-45	Hydraulic kit for 1 collector "A"	Hydraulic kit for 2 collectors "A"	Hydraulic kit for 3 collectors "A"	Hydraulic kit for 4 collectors "A"	Hydraulic kit for 5 collectors "A"	Hydraulic kit for 6 collectors "A"	Hydraulic kit for 7 collectors "A"	Hydraulic kit for 8 collectors "A"	Hydraulic kit for 9 collectors "A"	Hydraulic kit for 10 collectors "A"
Kit per 1 COLL. 2M ² TP 30-45°	1		1									
Kit per 2 COLL. 2M ² TP 30-45°	1	1		1								
Kit per 3 COLL. 2M ² TP 30-45°	1	2			1							
Kit per 4 COLL. 2M ² TP 30-45°	1	3				1						
Kit per 5 COLL. 2M ² TP 30-45°	1	4					1					
Kit per 6 COLL. 2M ² TP 30-45°	1	5						1				
Kit per 7 COLL. 2M ² TP 30-45°	1	6							1			
Kit per 8 COLL. 2M ² TP 30-45°	1	7								1		
Kit per 9 COLL. 2M ² TP 30-45°	1	8									1	
Kit per 10 COLL. 2M ² TP 30-45°	1	9										1

COMPONENTS FOR VERTICAL INSTALLATIONS ON INCLINED ROOF WITH UNDER-TILE MOUNTING FOR RPS 20/4 A AND RPS 25/4 A COLLECTORS.

	20201446	20201447	20201611	20201445	20202639	20201448	20201449	20201450	20201451	20201453	20201454	20201455	20201457	20201458	20201459
	Brackets 1 COLL. 2-2,5 "A" under tile IR	Brackets 2 COLL. 2-2,5 "A" under tile IR	Extension + 1 COLL. 2-2,5 "A" under tile IR	Kit 4 hooks for IR – COLL. "A"	Kit 6 hooks for IR – COLL. "A"	Kit 6 hooks for IR – COLL. "A"	Hydraulic kit for 2 collectors "A"	Hydraulic kit for 3 collectors "A"	Hydraulic kit for 4 collectors "A"	Hydraulic kit for 5 collectors "A"	Hydraulic kit for 6 collectors "A"	Hydraulic kit for 7 collectors "A"	Hydraulic kit for 8 collectors "A"	Hydraulic kit for 9 collectors "A"	Hydraulic kit for 10 collectors a
Kit for 1 COLL. 2-2,5M ² TI	1			1		1									
Kit for 2 COLL. 2–2,5M ² TI		1			1		1								
Kit for 3 COLL. 2-2,5M ² TI		1	1	1	1			1							
Kit for 4 COLL. 2-2,5M ² TI		1	2	2	1				1						
Kit for 5 COLL. 2-2,5M ² TI		1	3	3	1					1					
Kit for 6 COLL. 2-2,5M ² TI		1	4	4	1						1				
Kit for 7 COLL. 2-2,5M ² TI		1	5	5	1							1			
Kit for 8 COLL. 2-2,5M ² TI		1	6	6	1								1		
Kit for 9 COLL. 2-2,5M ² TI		1	7	7	1									1	
Kit for 10 COLL. 2-2,5M ² TI		1	8	8	1										1

SOLAR DHW AND STORAGE CYLINDERS



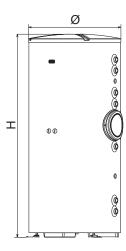
HEAT -EXCHANGERS (COILS)

	O COIL	1 COILS	2 COILS	FLANGES*
		RBC HP S 150-200-300 litres 500-800 litres 1000 litres page 193		7200/3F HV PLUS 800-1000-1500 2000-3000 liters page 191
DHW SOLAR CYLINDER		7200 HP 300-500 800 liters	RBS 2S 200-300-430-550 800-1000 liters	
DHW		page 197	page 189	
			7200/2 HV PLUS 1500-2000 liters	
			page 191	
DHW PUFFER		7200 KOMBI PLUS 550-800 1000 liters	7200 KOMBISOLAR ²⁵ 430-500 1000 liters	
Ð		page 200	page 199	
PUFFER		7000/S 1000-1500 liters		7000/F* 2000-3000 5000 liters
		page 201		page 201
HOT/COLD PUFFER	7000 ACI PLUS 60-120-200-300 400-500-800 1000-1500 2000 liters page 203			

^{*} Flanges for the insertion of heat-exchangers (coils).

Double-coil solar cylinders

RBS 2S



Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	146
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

- (*) Dimensions with insulation
- (**) Insulation thikness



- Double-coil solar cylinder
- Domestic hot water production
- Erp Ready Energy efficiency class B

Steel double coil solar cylinders of high energy efficiency (all models are class B) and internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits. The RBS cylinders, with embossed ABS finish, are provided with a thick insulation obtained by direct foaming method for models up to 550 liters and made of removable shells for models 800 and 1000 (to be assembled).

The cylinder and the elliptic coils have been carefully designed to reach the best performance in terms of heat exchange, recovery time and stratification. The hydraulic connections are arranged on a single row, as well as the inspection flange between the two coils, in order to facilitate cleaning and to insert an additional electric resistance.

Through a specific kit, RBS 2S can operate in parallel with one RBS 2S Ready-i of the same capacity up to 550 liters (RBS 2S Ready-i + RBS 2S + installation kit in parallel). Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
RBS 200 2S	208	99	10	62	В		20116675
RBS 300 2S	301	99	10	69	В		20116335
RBS 430 2S	430	99	10	75	В		20117339
RBS 550 2S	551	99	10	85	В		20116587
RBS 800 2S	731	99	7	94	В	(1)	20132268
RBS 1000 2S	883	99	7	101	В	(1)	20132269

1) Insulation to be assembled.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S	3.5	0.7	400	16.1	10	(1)
RBS 300 2S	4.0	0.8	572	23.0	10	(1)
RBS 430 2S	5.0	1.0	774	31.4	10	(1)
RBS 550 2S	5.0	1.0	774	31.4	10	(1)
RBS 800 2S	8.0	1.6	1240	50.0	7	(1)
RBS 1000 2S	8.0	1.6	1240	50.0	7	(1)

⁽¹⁾ According to DIN 4708 with $\Delta T = 20$ °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

	Description	Water content liters	Exchange surface m²	Max operation pressure bar
RBS 200 2S		3.5	0.7	10
RBS 300 2S		5.0	1.0	10
RBS 430 2S		7.0	1.4	10
RBS 550 2S		9.0	1.8	10
RBS 800 2S		11.5	2.3	7
RBS 1000 2S		13.5	2.7	7

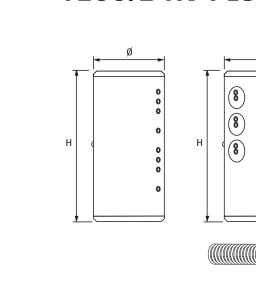
ACCESSORIES

Description	Code
Electric anode with plug	20055206
Curve for electronic anode kit	20123851
Thermometer kit	20123850
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	20119911
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	20119912
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	20119913
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	20119914
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	20131670

NOTE: for installation in parallel please consult the "RBS 2S Ready-i" page.

Flanged and double-coil DHW cylinders

7200/3F HV PLUS 7200/2 HV PLUS



Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight kg
7200/2 - 1500 HV PLUS	2185	1200	100	325
7200/2 - 2000 HV PLUS	2470	1300	100	540
7200/3F - 800 HV PLUS	1875	990	100	150
7200/3F - 1000 HV PLUS	2105	990	100	190
7200/3F - 1500 HV PLUS	2185	1200	100	305
7200/3F - 2000 HV PLUS	2470	1300	100	325
7200/3F - 3000 HV PLUS	2730	1450	100	543

- Dimensions with insulation
- (*) Dimensions with (**) Insulation thikness

Vertical steel double-coil solar cylinders, with internal double-layer enamel (according to DIN 4753) bacteriologically inert to ensure the absolute hygiene of water, to avoid limestone deposits and make cleaning easier.

The outer coating made of hard plastic provides a better aesthetic and a high solidity of the product, without compromising the installation in terms of ease of use and flexibility.

The cylinders, are already provided with CFC-free polyurethane hard and soft removable insulation (thickness of 100 mm) to make the installation easier; insulation supplied separately for the 2000-liters model. The care taken to study the geometry of solar cylinder and coils provides the best stratification, heat exchange and recovery time.

Easy maintenance thanks to the lateral flange for inspection, anticorrosion anodic protection. It is possible to use additional electrical resistance.

TECHNICAL DATA

ERP

• Flanged and double-coil DHW cylinders • Domestic hot water Production

separately according to the capacity

• Heat exchanger coil kit for 7200/3F to be ordered

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200/2 - 1500 HV PLUS	1390	99	8	162	С		20136237
7200/2 - 2000 HV PLUS	1950	99	8	186	С		20136239
7200/3F - 800 HV PLUS	749	99	10	130	С	(1)	20136273
7200/3F - 1000 HV PLUS	955	99	10	142	С	(1)	20136274
7200/3F - 1500 HV PLUS	1430	99	8	162	С	(1)	20136275
7200/3F - 2000 HV PLUS	1990	99	8	186	С	(1)	20136277
7200/3F - 3000 HV PLUS	2959	99	8	344	_	(1)	20052788

(1) Flanged solar cylinder supplied without coils, to be ordered separately NOTE: flanged solar cylinder supplied without coils, to be ordered separately.

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UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	10.4	1.8	1200	47	110	10	(1)
7200/2 - 2000 HV PLUS	16.9	2.8	1800	73	110	10	(1)

⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	19.4	3.4	2200	88	110	10	(1)
7200/2 - 2000 HV PLUS	28.1	4.6	2900	120	110	10	(1)

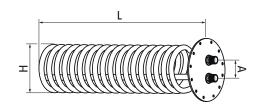
⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

ACCESSORIES

Description	Notes	Code
Three-phase electrical resistence 3.8 kW of 1" ½		20020707
Tin coated copper coil kit 2.63 m² - 1.74 l - 10 bar	(1)	20055205
Tin coated copper coil kit 4.54 m² - 3.56 l - 10 bar	(1)	4383089
Tin coated copper coil kit 6.34 m² - 5.10 l - 10 bar	(1)(2)	4383087
Electric anode with plug		20055206

HEAT EXCHANGER COIL

Description	L	Н	Α	Net weight
	mm	mm	mm	kg
Tin coated copper coil kit 2,63 m²	580	DN200	80	14.9
Tin coated copper coil kit 4,54 m²	750	DN200	80	22.6
Tin coated copper coil kit 6,34 m ²	980	DN200	80	29.0



TECHNICAL DATA

Description	Water exchanger surface m ²	Absorbed power (*) kW	Necessary capacity heat exchanger (*) m³/h	DHW output (*) m³/h	Pressure loss mbar	Maximum operating pressure of coil bar	Pipe diameter mm	Pipe's number	Water capacity I
Tin coated copper coil kit 2,63 m ²	2.63	53	2.3	1.3	748	10	18x1	1	1.74
Tin coated copper coil kit 4,54 m ²	4.54	91	3.9	2.2	720	10	18x1	2	3.56
Tin coated copper coil kit 6,34 m ²	6.34	127	5.5	3.1	2017	10	18x1	2	5.10

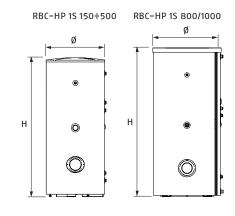
According to DIN 4708, to get domestic hot water with ΔT 35 °C (10/45 °C) and ΔT 20 °C (80/60 °C) on the heat-exchanger, please observe the values showed in the datasheet concerning absorbed power and necessary capacity heat-exchanger.

⁽¹⁾ Only for 7200/3F HV PLUS.
(2) Not suitable for 7200/3F 800 HV Plus and 7200/3F 1000 HV Plus.
Pump stations and differential controller are available at page 206. Other available accessories at page 212.

Single coil DHW cylinders

RBC-HP1S







- Vertical cylinder in enamelled steel with one coil
- Domestic hot water production
- Suitable for use with boilers or heat pumps

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
RBC-HP 150 1S	1138	604	52	62
RBC-HP 200 1S	1354	604	52	78
RBC-HP 300 1S	1838	604	52	103
RBC-HP 500 1S	1793	755	52	150
RBC-HP 800 1S	1835	974	92	203
RBC-HP 1000 1S	2155	974	92	225

- (*) Dimensions and weight with insulation (**) Insulation thikness

The RBC-HP 1S range guarantees excellent versatility as it can work in conjunction with both boilers and heat pumps. Vertical cylinder in enamelled steel with one coil DHW cylinder, internally glazed (as per DIN 4753) to ensure hygiene and limescale cleaning. The range includes 6 models from 150 to 1000 (ErP Ready – Energy class B) while the shape of the tank and the elliptical cross-section of the exchanger enable excellent heat exchange performance (minimal heat dispersion) and rapid restore times. Option to add an extractable coil for use with a solar thermal system. Option to add a back-up heating element.

TECHNICAL DATA

Description	Cylinder capacity I	Coil exchange surface m ²	Coil exchange power with heat pump (*) kW	Coil exchange power with boiler (**) kW	Maximum temperature °C	Maximum pressure bar	Thermal losses (***) W	Energy efficiency class	Notes	Code
RBC-HP 150 1S	170	0,85	6,3	27	99	10	55	В		20202962
RBC-HP 200 1S	210	1,38	8,8	39	99	10	58	В		20203095
RBC-HP 300 1S	305	1,7	12,4	49	99	10	68	В		20201786
RBC-HP 500 1S	500	2,2	15,8	57	99	10	84	В		20201984
RBC-HP 800 1S	735	2,5	18,5	69	99	7	94	-	(1)	20202273
RBC-HP 1000 1S	890	2,9	24,9	75	99	7	101	-	(1)	20202861

- With ΔT = 5 °C and coil outlet temperature of 50 °C.
-) With $\Delta T = 20$ °C and coil outlet temperature of 80 °C. *) According to EN 12897:2006, $\Delta t = 45$ °C (outdoor temperature 20 °C, storage temperature 65 °C).

Insulation to be assembled.

ACCESSORIES

RIELLO

Description	Note	Code
Electronic anode with plug		20055206
Curve for electronic anode kit		20123851
Thermometer kit		20123850
Single-phase electrical resistance 1.5 kW (150-500 lt) on flange	(1)	20119911
Single-phase electrical resistance 2.2 kW (150-500 lt) on flange	(1)	20119912
Single-phase electrical resistance 3.0 kW (150-500 lt) on flange	(1)	20119913
Three-phase electrical resistance 3.8 kW (150-500 lt) on flange	(1)	20119914
Single-phase electrical resistance 1.5 kW (800-1000 lt) on flange	(1)	20131666
Single-phase electrical resistance 2.2 kW (800-1000 lt) on flange	(1)	20131667
Single-phase electrical resistance 3.0 kW (800-1000 lt) on flange	(1)	20131669
Three-phase electrical resistance 3.8 kW (800-1000 lt) on flange	(1)	20131670
1.5 kW single-phase electric heater kit (150-300 lt) on 1"1/2 hole		4383270
2.2 kW single-phase electric heater kit (300-500 lt) on 1"1/2 hole		4383271
3.0 kW single-phase electric heater kit (500 lt) on 1"1/2 hole		4383272
3.8 kW three-phase electric heater kit (500-800-1000 lt) on 1"1/2 hole		20020707
6.0 kW single-phase electric heater kit (1000 lt) on 1"1/2 hole		20079908
Solar exchanger 0,8 m² for RBC-HP 150-300	(1)	20203248
Solar exchanger 1,2 m² for RBC-HP 500	(1)	20203246
Solar exchanger 1,9 m² for RBC-HP 800-1000	(1)	20203245

⁽¹⁾ The flange electrical resistance kit is not available with the solar heat exchanger kit. If you install the solar heat exchanger kit on the flange, you can't fix the flange electrical resistance kit.

RECOMMENDED COMBINATIONS - BOILER AND HEAT PUMP

Cylinder							NXHM	1 Heat p	umps					
Description	Code	004	006	008	010	012	014	016	012T	014T	016T	018T	022T	026T
		20203404	20203407	20203409	20203410	20203649	20203650	20203651	20203652	20203653	20203655	20194140	20194141	20194142
RBC-HP 150 1S	20202962	•	•											
RBC-HP 200 1S	20203095	•	•	•										
RBC-HP 300 1S	20201786	•	•	•	•	•			•					
RBC-HP 500 1S	20201984			•	•	•	•	•	•	•	•			
RBC-HP 800 1S	20202273					•	•	•	•	•	•	•		
RBC-HP 1000 1S	20202861							•			•	•	•	•

For correct cylinder sizing, see the technical data given on the product technical sheets.

Cylinder	·	FAMILY SPRINT Heat pumps									
Description	Code	4 M	6 M	8 M	10 M	12 M	14 M	16 M	12 T	14 T	16 T
		20205753	20205755	20205757	20205760	20205766	20205769	20205773	20205778	20205780	20205782
RBC-HP 150 1S	20202962	•	•								
RBC-HP 200 1S	20203095	•	•	•							
RBC-HP 300 1S	20201786	•	•	•	•	•			•		
RBC-HP 500 1S	20201984			•	•	•	•	•	•	•	•
RBC-HP 800 1S	20202273					•	•	•	•	•	•
RBC-HP 1000 1S	20202861							•			•

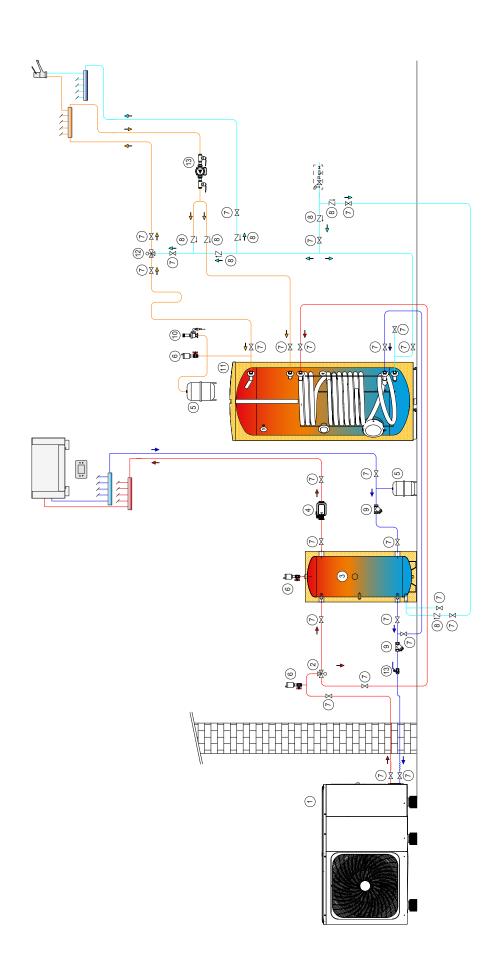
For correct cylinder sizing, see the technical data given on the product technical sheets.

Cylinder		FAMILY ES Heat pumps									
Description	Code	5M	7M	9M	12M	15M	12T	15T	18T		
		20204781	20204782	20204783	20204784	20204785	20204786	20204787	20204788		
RBC-HP 150 1S	20202962	•									
RBC-HP 200 1S	20203095	•	•								
RBC-HP 300 1S	20201786	•	•	•							
RBC-HP 500 1S	20201984		•	•	•	•	•				
RBC-HP 800 1S	20202273			•	•	•	•	•			
RBC-HP 1000 1S	20202861								•		

For correct cylinder sizing, see the technical data given on the product technical sheets.

EXAMPLES OF SYSTEM

MONOVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP



13 13

DHW heater DHW mixer DHW recirculation pump

Monobloc heat pump DHW diverting valve Storage tank Zone pump Expansion reservoir

Shut-off valve Non-return valve

Deaerator

Safety valve

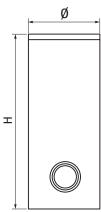
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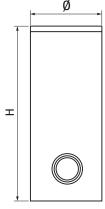
6 8 9 10

7 4 7 5

DHW solar cylinder

7200 HP







- Cylinder for heat pump
- Domestic hot water production

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	220

- (*) Dimensions and weight with insulation (**) Insulation thikness

DHW steel cylinders for vertical installation, protected by inner enamel and equipped with a coil (with a large exchange surface) for a suitable combination with a heat pump and with a flange in the bottom part to allow the insertion of an exchanger (optional) for the combination with the solar thermal. Specifically designed for the application in systems with heat pumps, they allow a high heat transfer thanks to the wide exchange surface.

They are complete with sockets, a magnesium anode and with a 1"1/2 connection for the insertion of an electrical resistance (optional). The insulation is made of rigid polyurethane for the sizes 300 and 500 and soft polyurethane for size 800.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 300 HP	263	99	10	85	С	(1)	4383500
7200 500 HP	470	99	10	112	С	(2)	4383501
7200 800 HP	702	99	10	130	С		20136293

- To combine with heat-pump Family ES and NHX.
- To combine with heat-pump Family ES and NHX.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200 300 HP	23.0	4	500	19	110	10	(1)
7200 500 HP	51.5	6	800	31	110	10	(1)
7200 800 HP	60.0	7	900	38	110	10	(1)

(1) According to DIN 4708 with ΔT =10 °C (60/50 °C) on exchanger.

ACCESSORIES

RIELLO

Description	Code
Single-phase electrical resistance 1,5 kW of 1" 1/2	4383270
Three-phase electrical resistence 3,8 kW of 1" ½	20020707
0,8 m² solar heat exchanger (for HP 300 model)	4383504
1,2 m² solar heat exchanger (for HP 500-800 models)	4383505
Electronic anode with plug	20055206

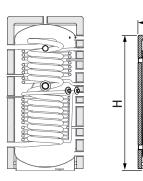
Other available accessories at page 212.

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Combined solar storage tanks

7200 KombiSolar^{2S}







- Combined storage tank
- Instantaneous production of domestic hot water and heating supplement

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200 KOMBISOLAR 430 2S	1635	755	50	155
7200 KOMBISOLAR 550 2S	1985	755	50	177
7200 KOMBISOLAR 750 2S	1845	1000	100	218
7200 KOMBISOLAR 1000 2S	2170	1000	100	248

- (*) Dimensions and we (**) Insulation thikness Dimensions and weight with insulation

7200 KombiSolar²⁵ is a combi storage tank designed for the instantaneous production of domestic hot water and the heating supplement. It contains three coils: one at the bottom for the solar circuit, one at the top for the heating circuit and one in stainless steel for the production of domestic hot water.

The rapid-exchange corrugated coil in stainless steel AISI 316L, for the production of domestic hot water (bacteriologically inert), ensures the absolute hygiene of water, while preventing bacteria from reproducing and limestone deposits from occurring, together with providing a fast, efficient and comfortable domestic hot water production.

The storage tank is specifically designed to enhance flexibility in installation through the synergetic and organic combination of thermal solar systems, traditional or biomass generators (also with open vessel) and heat pumps.

The presence of an integrated diffusion tube permits a high stratification of temperature along the solar tank height.

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 KOMBISOLAR 430 2S	415	99	3	78	В		20088789
7200 KOMBISOLAR 550 2S	528	99	3	85	В		20088790
7200 KOMBISOLAR 750 2S	742	99	5	93	В	(1)(2)	20145329
7200 KOMBISOLAR 1000 2S	908	99	5	98	В	(1)	20145332

- Supplied with insulation removed.
- Progressively available when the corresponding previous model runs out.

ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	4383272
Three-phase electrical resistance 3,8 kW of 1" ½	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F 3/4" connection pipe, 110 mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F 3/4", 800 mm, not insulated)	20011797

Other available accessories at page 212.

AUGUST 2024 EDITION

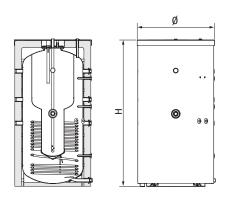
Combined solar storage tanks

7200 Kombi Plus





- Combined storage tank
- Production of domestic hot water and heating supplement



Description	H	Ø (*)	IT (**)	Net weight
	mm	mm	mm	kg
7200.550 Kombi Plus	2055	755	50	192
7200.800 Kombi Plus	1870	990	100	210
7200.1000 Kombi Plus	2196	990	100	265

- (*) Dimensions with insulation
- (**) Insulation thikness

7200 Kombi Plus is a combi storage tank (tank-in-tank technology) designed for the production of domestic hot water and the heating supplement. The completely enamelled internal tank (bacteriologically inert) is suitable to contain domestic hot water as it ensures the absolute hygiene of the water, while avoiding limestone deposits and making cleanliness easier.

The storage tank is specifically designed to enhance flexibility of installation through the synergetic and organic integration with thermal solar systems, heat generators and heat pumps.

The exchange surfaces and the geometry of tank provide the best performance in terms of stratification, heat exchange, recovery time and domestic hot water production (up to 2700 liters/hour).

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier. Anticorrosion anodic protection.

Easy maintenance thanks to the lateral flange for inspection. It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	DHW capacity liters	Maximum temperature °C	Maximum pressure of inertial storage cylinder bar	Thermal losses W	Energy efficiency class <u>≅</u>	Code
7200.550 Kombi Plus	388	160	99	3	95	С	20090256
7200.800 Kombi Plus	560	240	99	3	123	С	20145308
7200.1000 Kombi Plus	695	285	99	3	143	С	20145313

ACCESSORIES

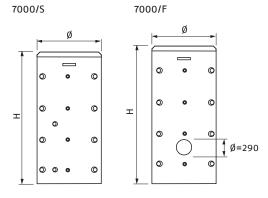
Description	Code
Single-phase electrical resistance 1,5 kW of 1" ½	4383270
Single-phase electrical resistance 2,2 kW of 1" ½	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	4383272
Three-phase electrical resistance 3,8 kW of 1" ½	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F ¾" connection pipe, 110mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F ¾", 800mm, not insulated)	20011797

Other available accessories at page 212.

Puffers

7000 Puffer







• Inertial storage for heating supplement

Description	H (*) mm	ø (*) mm	IT (**) mm	Net weight (*) kg
7000.1000/S	2190	990	100	172
7000.1500/S	2165	1200	100	239
7000.2000/F	2489	1300	100	330
7000.3000/F	2720	1450	100	415
7000.5000/F	2870	1800	100	570

- Dimensions and weight with insulation
- Insulation thikness

Storage tanks 7000 Puffer can be easily integrated into solar systems and are designed for heating supplement (not for DHW production or storage). The care taken to study the geometry of the tank (also provided with inner diaphragm) and coil (only for IS models) provides the best performance in terms of stratification, heat exchange and recovery time.

The connection at various heights permits the use of different heat generators and avoids affecting stratification.

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier (/F models).

The use of the flange (only for /F models) makes maintenance easier and allows to connect an additional exchanger.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity I	Coil surface (m²)	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Notes	Energy efficiency class <u>≅</u>	Code
INERTIAL PUFFER WITH SOLAR	EXCHANGER CO	IL						
7000.300/S	270	1.8	95	3	93	(1)(D)	С	20182681
7000.500/S	476	1.8	95	3	110	(1)(D)	С	20182682
7000.1000/S	920	2.6	99	3	143	(1)(D)	С	20136260
7000.1500/S	1410	3.8	99	3	167	(1)(D)	С	20136261
INERTIAL PUFFER WITH ONE F	LANGE							
7000.2000/F	2010	-	99	3	190	(2)(D)	С	20136256
7000.3000/F	2959	_	99	3	344	(2)(D)	-	4383411
7000.5000/F	5055		99	3	646		-	4383412

- (1) (2) (D) (*) Supplied with assembled insulation.
- Supplied with separated insulation.
- Availability of the material at our warehouse: 20 working days from the date of the order's validation. Discharges according to EN 12897:2006 (ΔT=45 °C, ambient 20 °C and storage at 65 °C).

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production I/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7000.1000/S	14,6	2,6	2900	68	110	6	(1)
7000.1500/S	21,6	3,8	4200	99	110	6	(1)

⁽¹⁾ According to DIN 4708 with ΔT =20 °C (80/60 °C) on exchanger.

ACCESSORIES

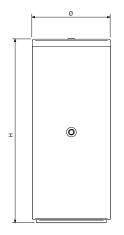
RIELLO

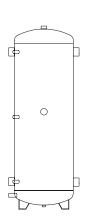
Description	Notes	Code
4,54 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 91 kW)	(1)	4383089
6,34 m² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 127 kW)	(1)	4383087
Electronic anode with plug		20055206

⁽¹⁾ To use only with 7000.2000/F, 7000.3000/F and 7000.5000/F models. Other available accessories at page 212.

Puffers

7000 ACI Plus







Description	H(*) mm	Ø(*) mm	Weight (empty) kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55
7000 ACI 400 PLUS	1540	700	95
7000 ACI 500 PLUS	1840	700	100
7000 ACI 800 PLUS	1800	990	115
7000 ACI 1000 PLUS	2050	990	170
7000 ACI 1500 PLUS	2165	1200	185
7000 ACI 2000 PLUS	2480	1300	305

^(*) Dimensions with insulation.

Storage tanks 7000 ACI Plus can be easily integrated both into traditional systems (heat generators) and into systems using renewable sources (chillers, heat pumps). Therefore it is necessary to cope with the lack of time balance between demand and supply of energy with the help of suitable storage systems.

This product, which is supplied in a single package, is provided with a closed-cell insulation made of CFC-and-HCFC-free polyurethane and is suitable for heating/cooling systems as it provides particularly excellent performances in terms of low heat losses (according to UNI TS 11300).

The care taken to study the geometry of the tank provides the best stratification, heat exchange and recovery time.

New hydraulic connections, having a larger diameter, allow the reduction of head losses when operating with reduced ΔT ; their positioning at various heights permits the use of different heat generators at the same time without affecting stratification. Ease of use is ensured by reduced weights and dimensions.

It is possible to use additional electrical resistances.

TECHNICAL DATA

RIELLO

Description	Cylinder capacity liters	Thermal losses W	Maximum temperature °C	Maximum pressure bar	Energy efficiency class <u>≅</u>	Code
7000 ACI 60 PLUS	57	34	99	6	В	20090056
7000 ACI 120 PLUS	123	50	99	6	В	20082450
7000 ACI 200 PLUS	203	68	99	6	С	20028093
7000 ACI 300 PLUS	277	82	99	6	С	20028094
7000 ACI 400 PLUS	390	105	99	6	С	20028095
7000 ACI 500 PLUS	473	114	99	6	С	20028096
7000 ACI 800 PLUS	732	131	99	6	С	20137619
7000 ACI 1000 PLUS	855	139	99	6	С	20137620
7000 ACI 1500 PLUS	1420	168	99	6	С	20137622
7000 ACI 2000 PLUS	2013	190	99	6	С	20137624

ACCESSORIES

Description	Notes	Code
Single-phase electrical resistance 1,5 kW of 1" ½	(1)	4383270
Single-phase electrical resistance 2,2 kW of 1" ½	(1)	4383271
Single-phase electrical resistance 3,0 kW of 1" ½	(1)	4383272
Three-phase electrical resistence 3,8 kW of 1" ½	(1)	20020707
Electronic anode with plug		20055206

(1) Not compatible with 7000 ACI 60 Plus Other available accessories at page 212.

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Pump stations and differential controllers

RSS & EVOSOL





- Pump station RSS
- Differential controller EVOSOL

Description	H mm	L mm	P mm	Net weight kg
RSS MRS	418	313	185	5,0
RSS MR	418	313	185	4,7
RSS R	364	228	183	4,1
RSS MR 14 MT	290	390	250	0,8
EVOSOL	170	106	52	0,3

EVOSOL is a solar regulation able to manage 9 kinds of plant layouts and meet all different domestic and professional requirements. EVOSOL is able to manage a modulating solar circulator with constant ΔT regulation between solar collector and cylinder, thus allowing the operation of the system even in case of low radiation.

The user-friendly menu and the display allow to control easily the available functions and the selected layout. The frontal access to components eases the electrical wiring; the wide range of accessories allows to customize any system.

RSS is a solar pump station available in four versions: flow and return with differential controller EVOSOL assembled on the system (MRS), flow and return (MR) and only return (R).

The pump stations RSS MRS and MR are provided with circulator pump with PWM controlling, safety devices, filling taps, non-return valve, flow and return temperature gauge. RSS R is provided with circulator pump both for ON/OFF and PWM controlling, safety devices, filling taps, flow regulator and flow meter, non-return valve and temperature gauge.

TECHNICAL DATA

Description	Connection and ball valve	Net area connectable collectors m ²	Notes	Code
RSS MRS	Flow/Return	55	(1)	20116166
RSS MR	Flow/Return	55	(2)	20116167
RSS R	Only return	20	(3)	20116168
RSS MR 14 MT	Flow/Return	30	(2)(4)	20156553

- Equipped with differential controller EVOSOL.
- Suitable only for PWM controlling.
- Suitable for PWM or ON/OFF controlling.
- Equipped with modulating circulator pump with PWM controlling (a wall mount solar controller has to be installed separately).

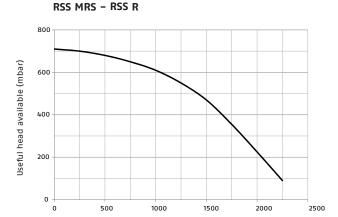
TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe nr.	Configured schemes nr.	Code
EVOSOL	2	4	1x collector + 2x cylinders	9	20120499

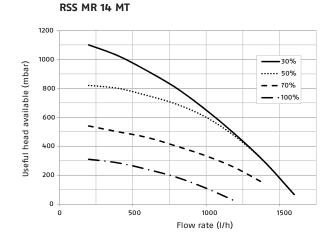
INTERNATIONAL PRODUCT CATALOGUE

USEFUL HEAD AVAILABLE

Solar delivery and return station. Values referred to a mix of water and 30% glycol.



Flow rate (I/h)



ACCESSORIES

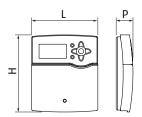
Description	Notes	Code
Electronic anode	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415
Additional temperature probe kit for solar collector		20125097
Additional temperature probe kit for cylinder		20123856

- Suitable for pump station with differential controller (MRS type). Suitable for pump station without differential controller (R and MR type).

Solar differential controller

Sun Pro







• Solar controller Sun Pro

Description	H mm	L mm	P mm
SUN 5 PRO 5 RS	227	156	62
SUN 14 PRO 14 RS	260	216	64

SUN PRO is a solar controller able to meet all different domestic and professional requirements, able to manage several system schemes. The design is simple and stylish and suits all environments.

The menu is user-friendly, the display allows the user to easily control the functions and the selected scheme.

Easy access to the electrical wiring from the front side.

Wide range of accessories to customize any system.

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe (*) (for flat collector) nr.	Configured schemes nr.	Code
SUN 5 PRO 5 RS	5	9	2x collector + 3x cylinders	7 (+variants)	20099595
SUN 14 PRO 14 RS	14	12	2x collector + 4x cylinders	9 (+variants)	20099607

(*) Specific probes for flat collectors

ACCESSORIES

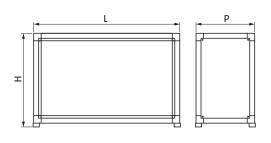
Description	Notes	Code
Electronic anode to be wired with differential controller	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415

Suitable for pump station with differential controller (MRS type). Suitable for pump station without differential controller (R and MR type).

Complementary items

Riello SC Sun Riello SC Acs







- Solar heat exchange units
- DHW heat exchange units
- High efficiency pump

Description	H mm	L mm	P mm	Net weight kg
SC SUN 50	600	400	260	22.8
SC SUN 120	835	475	195	32
SC SUN 120 ACS	835	475	195	32
SC SUN 300	1140	1000	500	155
SC ACS 25	600	400	250	16.1
SC ACS 35	600	400	250	19.1
SC ACS 40	600	400	250	19.2
SC ACS 80	835	475	226	30
SC ACS 160	1100	1000	500	158
SC ACS 225	1100	1000	500	176

Riello offers complete and ready-to-install solutions when using puffer storage tanks, while optimizing stratification: heat exchange units both on the solar and the DHW sides.

Riello SC Sun is the solar heat exchanger designed for puffer storage tanks. Its components are sized and managed to transfer the heat with maximum efficiency. The range offers three sizes: up to 50, 120 and 300 m2 of exposed area.

There is also a heat-exchanger that produces directly istantaneous DHW; it can work up to 120 m² of exposed area.

Riello SC ACS is the heat exchanger for the instantaneous production of domestic hot water.

It is designed to be connected with puffer storage tanks and ensures maximum hygiene of the treated water.

The range offers five sizes: 25, 40, 80, 160 and 225 l/min.

TECHNICAL DATA

Description	Exchanged power (*) kW	Max primary output I/h	Temperature Primary min-max °C	Exchange surface m²	Max pressure primary/ secondary bar	NoteS	Code	
HEAT EXCHANGER FOR SOLAR CIRCUIT								
SC SUN 50	32	1.500	2/110	0.9	6/3	(D)	20156326	
SC SUN 120	52	2.400	2/110	3.0	6/6	(D)	20156327	
SC SUN 300	129	6.000	2-110	-	10/10		20156330	
DHW HEAT EXCHANGER								
SC SUN 120 ACS	52	2.400	2/110	3.0	6/6	(D)	20156331	

- (*) Referred to ΔT =20 °C and 30% glicol.
- D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

TECHNICAL DATA

RIELLO

Description	DHW production I/min	Min DHW production output I/min	DHW temperature set °C	Max primary delivery output I/h	Plate exchange surface m ²	Max. operating pressure bar	Notes	Code	
FOR TECHNICAL WATER-I	FOR TECHNICAL WATER-DOMESTIC WATER HEAT EXCHANGE								
SC ACS 25	19	2,5	4055	1.200	0.9	10	(D)	20156322	
SC ACS 35	28	2,5	4055	1.700	1.8	10	(D)	20156324	
SC ACS 40	38	2	3090	1.850	1.8	6	(1)	20156325	
SC ACS 80	60	5	3090	3.600	3	6	(D)(1)	20182669	
SC ACS 160	100	10	3085	8.000	_	10	(D)(1)	20176021	
SC ACS 225	150	10	3085	10.500	-	10	(D)(1)	20156329	

- DHW production at 45 °C, with water inlet at 10 °C and storage tank temperature at 55 °C.
- Max primary/secondary pressure.

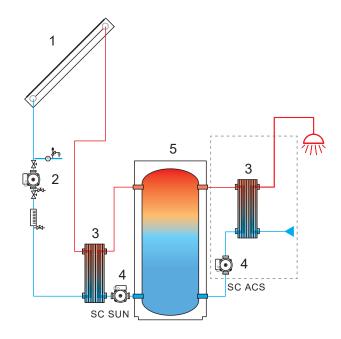
 Availability of the material at our warehouse: 25 working days from the date of the order's validation.
- Heat exchange module that can be assembled in cascade with the appropriate accessories (see accessories).

ACCESSORIES

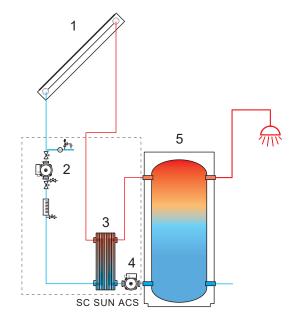
Description	Notes	Code
Thermostatic sanitary recirculation kit (for SC ACS 25-35)	(D)	20083502
Electronic DHW recirculation kit (only for SC ACS 40)		20182673
2 modules cascade connection kit (only for SC ACS 40)		20182674
3 modules cascade connection kit (only for SC ACS 40)	(D)	20182675
Recirculation kit (only for SC ACS 80)	(D)	20182676
2 modules cascade connection kit (only for SC ACS 80)	(D)	20182677
3 modules cascade connection kit (only for SC ACS 80)	(D)	20182678

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation. Other available accessories at page 212.

PRINCIPLE EXEMPLARY SCHEME



- Riello solar collector
- High efficiency solar circulator 2.
- Plate heat-exchanger 3.
- High efficiency circulator 4.
- 7000 Puffer



- Riello solar collector
- High efficiency solar circulator 2.
- Plate heat-exchanger 3.
- High efficiency circulator 4.
- 7200/3F HV PLUS 5.

ACCESSORIES



TERMINAL UNITS

SOLAR THERMAL ACCESSORIES

Description	Notes	Code	
FITTINGS AND STAINLESS STEEL PIPES			
2 straight fittings kit to be tightened to connect the solar collectors with DN18 copper pipes		20027281	
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		20055236	
Kit of two fittings to tighten terminals	(2)	20094627	
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219	
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/stainless steel pipe DN16)		20027289	
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		20132220	
Fittings kit to be welded		20132142	
Fittings kit for stainless steel pipe	(1)	20132143	
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383254	
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383255	
FLOW RATE REGULATORS			
Flow rate regulator 12 (DN20; 2-12 I/min; kvs=2,2 m³/h)		20011536	
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m³/h)		20011538	
Manual solar air vent kit		20026577	
GLYCOL			
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat- plate collectors)		4383085	
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat- plate collectors)		4383059	
20 kg pre-mixed glycol for CSV R (ready-to-use heat transfer liquid, suitable for vacuum collectors, frost-protection up to -28 °C)		4383118	
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030	
EXPANSION VESSELS			
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383052	
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383053	
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383054	
50L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383256	
100L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383257	
150L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383258	
300L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383259	
OTHER ACCESSORIES			
³¼" thermostatic mixing valve kit		20020778	
Differential electronic thermostat		20039694	

⁽¹⁾ Fittings kit to be ordered with the stainless steel flexible pipe. (2) Stainless steel flexible pipe, insulated, without fittings.



CENTRALIZED HEATING	Ø
WALL-HUNG MODULAR SYSTEM	218
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FLOOR-STANDING BOILERS	267
STEEL JET BURNER BOILERS GAS/OIL	290
CONTROL PANELS AND THERMOREGULATIONS	339
FLUE OPTIONS SYSTEM	349

WALL-HANG/FLOOR-STANDING CONDENSATION MODULES

0



- Provided with kit for outdoor installation.
 The output data are referred to the min-max (80°/60 °C) of cascade applications.

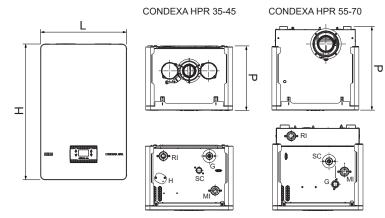
TERMINAL UNITS

RIELLO

Indoor wall-hung gas condensing modules

Condexa HPR





MI - FLOW Ø G 1" ½ M RI - RETURN Ø G 1" ½ M SC - CONDENSATE DISCHARGE Ø

25 mm G - GAS Ø G 1" M



- In conformity with Directive 2009/125/EC
- Condensing thermal modules for indoor use
- Possible cascade up to 280 kW
- · Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)

Description	H mm	L mm	P mm	ø mm	Net weight kg
CONDEXA HPR 35	740	470	350	60/100	39
CONDEXA HPR 45	740	470	350	60/100	39
CONDEXA HPR 55	740	470	453	80/125	53
CONDEXA HPR 70	740	470	453	80/125	53

Condexa HPR is the wall-hung modular condensing system which make the compactness the primary point of strenght. The primary stainless steel heat exchanger with horizontal envelope,

with a combustion chamber with frontal access, ensure high performances in terms of efficiency and reliability in times.

The range is composed by 4 models in only heating configuration, with thermal modules from 34,9 up to 70 kW.

Condexa HPR can be installed as stand alone either indoor or outdoor in partially covered environment, while the cascade can be installed indoor up to 4 modules,

both in FRONT and BACK-to-BACK configurations.

The management of the cascade is ensured by the new electronic system manager, ease and user friendly which can also manage, parametrize and visualize up to 4 modules in cascade as well as manage up to 6 indipendent zones.

- Designed to operate with natural gas and hydrogen mixtures, up to a maximum of 20% of hydrogen.
- 8:1 turndown ratio in stand alone installation, up to 32:1 in cascade.
- Modulating circulator with high hydraulic head and low consumption.
- Maximum operating pressure: 5 bar.
- Ease of installation.
- Wide range of accessories to complete both the stand alone and the cascade installation, both in FRONT and BACK-to-BACK configuration.

TECHNICAL DATA

Description		Output k\	N		Efficiency - %	,	Energy	Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	efficiency class		
								IT/EN	20190064
								FR/NL/DE	20202709
ONDEXA HPR 35	22.00	27.21	F 2 24 0	07.4	106.0	100.3	Α	ES/PT	20202710
UNDEXA HPR 35	33,99	37,31	5,2-34,9	97,4	106,9	108,2	A /	RU/UA	20202711
								PL/HU/RO	20202712
								SK/SR/GR/SI/HR	20202714
								IT/EN	20190066
								FR/NL/DE	20202715
ONDEXA HPR 45	4.2.00	1.7.20	F 2 4 F 0	07.5	105.1	107.0		ES/PT	20202716
UNDEXA HPR 45	43,88	47,30	5,2-45,0	97,5	105,1	107,9	A	RU/UA	20202717
								PL/HU/RO	20202718
								SK/SR/GR/SI/HR	20202720
								IT/EN	20190067
								FR/NL/DE	20202721
CONDEVA LIDD FF	F2.60	E0.3E	0.2 55.0	07.5	105.0	107.6		ES/PT	20202722
ONDEXA HPR 55	53,60	58,25	8,2-55,0	97,5	105,9	107,6	Α	RU/UA	20202723
								PL/HU/RO	20202724
								SK/SR/GR/SI/HR	20202725
								IT/EN	20190068
								FR/NL/DE	20202726
CONDEVA LIDD =0	60.22	71. 10	0 2 70 0	07.5	106.6	107.5		ES/PT	20202727
CONDEXA HPR 70	68,22	74,19	8,2-70,0	97,5	106,0	107,5	Α	RU/UA	20202728
								PL/HU/RO	20202730
								SK/SR/GR/SI/HR	20202732

ACCESSORIES - STAND ALONE INSTALLATION

Description	Notes	Code	
HYDRAULIC ACCESSORIES			
Hydraulic separator/plate heat exchanger connection	(1)	20195886	
Horizontal hydraulic separator		20195884	
Brazed plate heat exchanger kit for stand alone boiler (20 plates)	(2)	20195888	
Brazed plate heat exchanger kit for stand alone boiler (30 plates)	(2)	20197360	
Internal 3 way valve kit	(3)	20195889	
External 3 way valve kit	(4)	20195890	
Delivery/return connection for direct installation		20195891	
SAFETY ACCESSORIES			
Safety kit manifold	(5)	20195883	
Safety valve 4,5 bar FF 3/4"x1"	(6)	20199254	
MECHANICAL ACCESSORIES			
Cover for safety kit/hydraulic separator		20195885	
Cover for plate heat exchanger		20195887	
Spacer kit for fixing to wall (7)			
ELECTRICAL ACCESSORIES			
REC10MH remote control	(8)	20193921	

- (1) Suitable for the combination with safety valve cod.20199254.
 (2) To be installed mandatory with cod.20196701.
 (3) Suitable for 35-45 kW models.
 (4) Suitable with the plate heat exchanger kit for stand alone boiler for the DHW production.
 (5) Contains: thermometer, pressure gauge, safety valve, pressure switch and fuel shut-off valve.
 (6) For Italian market: suitable only for 35 kW model.
 (7) Kit required for rear wall concentric discharge for 55-70 kW models.
 (8) Allows the management of: solar thermal and up to 3 direct/mixed independent zones.

AUGUST 2024 EDITION

RIELLO

ACCESSORIES - CASCADE INSTALLATION

Description	Notes	Code			
HYDRAULIC ACCESSORIES					
Ramps with shut-off	(1)(2)	20197002			
Ramps with shut-off - B2B	(1)(2)	20197004			
Ramps without shut-off	(1)(2)	20197005			
Ramps without shut-off - B2B	(1)(2)	20197006			
Gas ramp kit for cascade installation 35-45 kW	(1)	20197634			
Gas ramp kit for cascade installation 55-70 kW	(1)	20197635			
Gas ramp kit for cascade installation 35-45 kW - B2B	(1)	20197639			
Gas ramp kit for cascade installation 55-70 kW - B2B	(1)	20197640			
2" 1/2 manifolds for 2 boiler cascade		20197007			
2" 1/2 manifolds for 1 boiler cascade		20197362			
Flange 2" 1/2 PN6		20197366			
Blind flanges 2''1/2 PN6		20197367			
Condensate discharge kit for cascade		20197364			
Manifold kit for 2" 1/2 safety devices housing		20196449			
2"1/2 hydraulic separator kit		20197642			
DN65/DN50 connection kit (HEATGATE DN50)	(3)	20196494			
Heat exchanger SP 35-DN50 21 (21) N	(11)	20200611			
Heat exchanger SP 35-DN50 27 (27) N	(11)	20200613			
Heat exchanger SP 35-DN50 33 (33) N	(11)	20200614			
Heat exchanger SP 35-DN50 41 (41) N	(11)	20200615			
Heat exchanger SP 35-DN50 49 (49) N	(11)	20200616			
Heat exchanger SP 35-DN50 53 (53) N	(11)	20200618			
Heat exchanger SP 35-DN50 61 (61) N (11)					
SAFETY ACCESSORIES					
Safety devices kit	(4)	20071190			
Safety valve up to 400 kW (4,5 bar)		20197368			
Fuel shut-off valve kit (VIC) - ØG.1"	(5)(8)	20009486			
Fuel shut-off valve kit (VIC) - ØG.1" ½	(6)(8)	20009482			
Fuel shut-off valve kit (VIC) - ØG.2"	(7)(8)	20009483			
MECHANICAL ACCESSORIES	, , , , ,				
Manifolds and ramps cover for stand alone boiler		20197363			
Ground fixing kit (SP 35-40 models)	(9)	20120282			
FLUE DISCHARGE(*)					
Fixed split system kit Ø80 mm		20129765			
Adapter Ø80 to Ø110 mm		20197070			
Ø80/110 mm - Rainproof vertical adapter		20196319			
90° Ø80 mm bend		20137506			
Air-intake kit B23		20137538			
Cascade terminal Ø160 mm with condensate drain		20062338			
Collector Ø160 mm for 1 boiler		20197583			
Collector Ø200 mm for 1 boiler		20197584			
Adapter Ø160 to Ø200 mm		20132391			
Y-fitting Ø160/160 mm		20197582			
ELECTRICAL ACCESSORIES					
Cascade and zone remote control	(10)	20199623			
2010 1011010 10111010	(10)	,,,,,,,,			

- (1) To be ordered for each boiler of the cascade system (qty = no. boiler). (2) Without gas ramp.
- (3) To be ordered with the "Ground fixing kit (SP35-40 models) cod. 20120282.
- (4) Safety and fuel-shut-off valve are not included.
 (5) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (6) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
 (7) Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
 (7) Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
 (8) Intervention temperature 97 °C Capillary length 5 m.
 (9) Allows the plate exchanger to be fixed to the structure contained in the cod.20196494.
 (10) Allows the management of: solar thermal and up to 6 direct/mixed independent zones.
 (11) Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.
 (*) Specific codes for the flue discharge/air intake in case of cascade installation.

- NOTE: to calculate the maximum admissible output of the fuel shut-off valves, with supply pressures other than 20 mbar, contact the pre-sales service. For the flue gas system, refer to the current catalog.

ACCESSORIES TO COMPLETE THE SYSTEM

Description	Notes	Code
HYDRAULIC ACCESSORIES	·	
1''1/2 MF shut-off cock		20190221
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer HN2 (up to 280 kW)	(1)	4031811
MECHANICAL ACCESSORIES		
Support frame	(2)	20196701
Support frame rig	(3)	20196699
ELECTRICAL ACCESSORIES		
Board BE09 with double multi-function relay		20192808
1st direct/mixed area control	(4)	20132795
Control of 2nd and 3rd direct/mixed zone	(4)	20132796
External probe		1220559
Immersion probe	(5)	1220599
Solar thermal unit interface kit		20168672
LPG TRANSFORMATION ACCESSORIES		
LPG transformation kit (35/45 kW)		20201490
LPG transformation kit (55/70 kW)		20201489

(1) Equipped with extraction pumps.
 (2) Frame required in case of either cascade installation or stand alone installation with plate heat exchanger.
 (3) Necessary in case of back-to-back cascade configuration.
 (4) In combination with cod.20193921 in stand alone installation or with cod.20199623 in cascade installation for the management of direct/mixed zones.
 (5) Usable as: primary probe, secondary probe, cylinder probe.

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

Description		Safety devi	ces	Fra	ime		Heat exc	changers	
	Only saf	ety valve	Safety devices						
		M FOTO				ΔT primary/sec	70°C 50°C	ΔT primary/sec	75°C 60°C
	Hydraulic separator/plate heat exchanger connection	Safety valve 4,5 bar FF 3/4"x1"	Safety kit manifold	Support frame	Support frame rig	Brazed plate heat exchanger kit for stand alone boiler (20 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)	Brazed plate heat exchanger kit for stand alone boiler (20 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)
	20195886	20199254	20195883	20196701	20196699	20195888	20197360	20195888	20197360
CONDEXA HPR 35	•	•		•	• (*)	•		•	
CONDEXA HPR 45	•	•	•	•	• (*)	•		•	
CONDEXA HPR 55	•	•	•	•	• (*)		•		•
CONDEXA HPR 70	•	•	•	•	• (*)		•		•

To be used in case where the frame is not bound to the wall.

TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70			
Boiler heat output kW	34,9	45	55	70			
No. boilers		TOTAL CASCADE OUTPUT/DIAMETER H ₂ O COLLECTORS					
2	70/ 2" ½	90/ 2" ½	11/ 2" ½	140/ 2" ½			
3	105/ 2" ½	135/ 2" ½	165/ 2" ½	210/ 2" ½			
4	140/ 2" ½	180/ 2" ½	220/ 2" ½	280/ 2" ½			

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70			
Boiler heat output kW	34,9	45	55	70			
No. boilers		SELECTION OF COLLECTOR CODES FOR FRONT CONFIGURATION					
2	1x 20197007	1x 20197007	1x 20197007	1x 20197007			
3	1x 20197007 1x 20197362	1x 20197007 1x 20197362	1x 20197007 1x 20197362	1x 20197007 1x 20197362			
4	2x 20197007	2x 20197007	2x 20197007	2x 20197007			

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70				
Boiler heat output kW	34,9	45	55	70				
No. boilers	SEL	SELECTION OF COLLECTOR CODES FOR BACK TO BACK CONFIGURATION						
2	1x 20197362	1x 20197362	1x 20197362	1x 20197362				
3	1x 20197007	1x 20197007	1x 20197007	1x 20197007				
4	1x 20197007	1x 20197007	1x 20197007	1x 20197007				

TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70		
Boiler heat output kW	34,9	45	55	70		
No. boilers	FLUE COLLECTORS DIAMETER					
1a	Ø160	Ø160	Ø160	Ø160		
2a	Ø160	Ø160	Ø160	Ø160		
За	Ø160	Ø160	Ø160	Ø160		
4a	Ø160	Ø160	Ø160	Ø200		

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN FRONT CONFIGURATION

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70
Boiler heat output kW	34,9	45	55	70
No. boilers		TOTAL CASCADE OUTPUT/D	IAMETER H ₂ O COLLECTORS	
2	2x 20129765 4x 20137506 2x 20137538 2x 20197070 1x 20062338 2x 20197583	2x 20129765 4x 20137506 2x 20137538 2x 20197070 1x 20062338 2x 20197583	2x 20196319 1x 20062338 2x 20197583	2x 20196319 1x 20062338 2x 20197583
3	3x 20129765 6x 20137506 3x 20137538 3x 20197070 1x 20062338 3x 20197583	3x 20129765 6x 20137506 3x 20137538 3x 20197070 1x 20062338 3x 20197583	3x 20196319 1x 20062338 3x 20197583	3x 20196319 1x 20062338 3x 20197583
4	4x 20129765 8x 20137506 4x 20137538 4x 20197070 1x 20062338 4x 20197583	4x 20129765 8x 20137506 4x 20137538 4x 20197070 1x 20062338 4x 20197583	4x 20196319 1x 20062338 4x 20197583	4x 20196319 1x 20062338 1x 20132391 3x 20197583 1x 20197584

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN BACK TO BACK CONFIGURATION

Model	CONDEXA HPR 35	CONDEXA HPR 45	CONDEXA HPR 55	CONDEXA HPR 70				
Boiler heat output kW	34,9	45	55	70				
No. boilers	SELECTION	OF FLUE GASES COLLECTOR CO	CODES FOR BACK TO BACK CONFIGURATIONS					
2	2x 20129765 4x 20137506 2x 20137538 2x 20197070 2x 20062338 1x 20197582 2x 20197583	2x 20129765 4x 20137506 2x 20137538 2x 20197070 2x 20062338 1x 20197582 2x 20197583	2x 20196319 2x 20062338 1x 20197582 2x 20197583	2x 20196319 2x 20062338 1x 20197582 2x 20197583				
3	3x 20129765 6x 20137506 3x 20137538 3x 20197070 2x 20062338 1x 20197582 3x 20197583	3x 20129765 6x 20137506 3x 20137538 3x 20197070 2x 20062338 1x 20197582 3x 20197583	3x 20196319 2x 20062338 1x 20197582 3x 20197583	3x 20196319 2x 20062338 1x 20197582 3x 20197583				
4	4x 20129765 8x 20137506 4x 20137538 4x 20197070 2x 20062338 1x 20197582 4x 20197583	4x 20129765 8x 20137506 4x 20137538 4x 20197070 2x 20062338 1x 20197582 4x 20197583	4x 20196319 2x 20062338 1x 20197582 4x 20197583	4x 20196319 2x 20062338 1x 20137538 4x 20197583				

WATER-HEATERS

Indoor wall-hung gas condensing modules

Condexa Pro

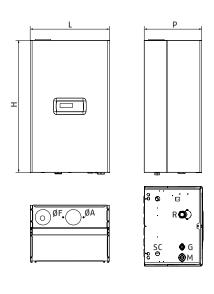








- Condensing thermal modules for indoor use (for outdoors with optional kit)
- Possible cascade up to 1120 kW
- · Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)



M-FLOW G 1" 1/2 G-GAS G 1 R-RETURN G 1" 1/2 SC-CONDENSATE DISCHARGE Ø24 mm ØA-AIR (opz)

Description	H mm	L mm	P mm	ø mm	Net weight kg
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84
CONDEXA PRO 135	1170	600	435	110	90

The Condexa Pro System is the new Riello high performance wall-hung condensing modular system that can cover a vast range of applications, and which can be installed indoors or outdoors, with an open or sealed combustion chamber, with a single boiler or in cascade up to 1120 kW.

The range consists of 6 models with thermal modules from 57 to 131 kW.

Each thermal module has a new heat exchanger, with patented structures, composed of two smooth concentric stainless steel pipes, having respectively an internal pentagonal section and a circular outside section, designed to maximise the heat exchange surface and provide maximum resistance to corrosion.

The primary circuit pump with modulating adjustment allows you top operate with a settable consent ΔT , thereby reducing the system's steady state times and maximising the condensation. The standard electronics includes climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol. Included as standard are: boiler discharge tap, LPG conversion kit and wall support.

Completing the system are accessories specifically designed for modular and cascade applications, with the possibility of working with various hydraulic management logics, namely thermal modules with circulators or no shut-off.

With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones. The optimal management of the combustion and the high modulation ratios, up to 1 to 50 for the version with 10 thermal modules, provide high levels of efficiency and low levels of polluting emissions (Class 6 UNI EN 15502).

- Continuity of service is guaranteed by system modularity: even in the event of fault of a module, overall operation shall not be compromised
- The anti-freeze and anti-seizing functions ensure it operates in all weather conditions
- A wide range of accessories is available to ensure the installation is simple, fast and complete with cascade
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description		Power - k	:W		Efficiency - %	,	Energy	Language	Code
	0utput useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	efficiency class		
								IT/EN	20115223
								FR/DE	20150685
								ES/PT	20151706
CONDEXA PRO 57 P	55.7	61.9	14.0-57.0	98.3	108.6	109.2	Α	RU/UA	20151726
								PL/RO	20151754
								SK/CZ/GR/SI/CR	20151824
								CH/BE/HU	20192124
								IT/EN	20115224
								FR/DE	20150686
								ES/PT	20151707
CONDEXA PRO 70 P	67.0	73.9	14.0-68.0	97.9	108.1	108.8	Α	RU/UA	20151727
								SK/CZ/GR/SI/CR	20151756
								PL/RO	20151825
								CH/BE/HU	20192125
								IT/EN	20115225
								FR/DE	20150687
								ES/PT	20151709
CONDEXA PRO 90	88.3	97.4	19.4-90.0	98.0	108.3	108.9	_	RU/UA	20151728
								SK/CZ/GR/SI/CR	20151759
								PL/RO	20151826
								CH/BE/HU	20192126
								IT/EN	20115226
								FR/DE	20150688
								ES/PT	20151721
CONDEXA PRO 100	95.3	105.1	19.4-97.0	97.9	108.2	108.8	-	RU/UA	20151730
								SK/CZ/GR/SI/CR	20151762
								PL/RO	20151827
								CH/BE/HU	20192127
								IT/EN	20115228
								FR/DE	20150689
								ES/PT	20151722
CONDEXA PRO 115	109.8	121.1	22.4-112.0	98.3	108.6	108.8	_	RU/UA	20151731
								SK/CZ/GR/SI/CR	20151767
								PL/RO	20151828
								CH/BE/HU	20192128
								IT/EN	20115229
								FR/DE	20150690
								ES/PT	20151723
CONDEXA PRO 135	129.0	142.1	26.2-131.0	97.9	108.3	108.9	_	RU/UA	20151732
								SK/CZ/GR/SI/CR	20151768
								PL/RO	20151829
								CH/BE/HU	20192129

STAND ALONE BOILER CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. STAND ALONE BOILER CONFIGURATION
- 2. ACCESSORIES TO COMPLETE THE SYSTEM
- 3. OPTIONAL ACCESSORIES
- 3.1 Shunt pumps
- 3.2 Additional safety devices
- 3.3 Hydraulic separator or plate heat exchanger*
- 3.4 Secondary circuit management
- 3.5 Indoor/outdoor installation
- 3.6 Sealed chamber conversion kit
- 3.7 Flue system
- 3.8 Treatment systems for condensate neutralization

1. STAND ALONE BOILER CONFIGURATION

Powers obtainable with stand alone installation

Model	CONDEXA PRO 57 P	ONDEXA PRO 57 P CONDEXA PRO 70 P		CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135	
Thermal flow kW	57	68	90	97	112	131	

2. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Notes	Code
External probe		20132778
Condensate drain kit for stand alone boiler	(1)	20133102

⁽¹⁾ Mandatory on all models.

3. OPTIONAL ACCESSORIES

3.1 Shunt pumps (only for 90-135 kW)

and the second s		
Description	Notes	Code
Injection pump kit (90-115 kW)	(1)(2)	20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)(3)	20125035
Injection pump kit with high residual head (135 kW)	(1)(4)	20125040

On the models Condexa Pro 57-70 P the shunt pump is already onboard.

^(*) Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.

This shunt pump, that can be fitted within the boiler, offers a high residual head on Condexa Pro 90 - 100 and with these boilers it can be combined with the (optional) plate heat exchanger; if used with Condexa Pro 115, it can be combined with the (optional) hydraulic separator but not with the plate heat exchanger.

If combined with Condexa Pro 135, this shunt pump can be fitted within the boiler and offers a very low residual head (10 mbar); It has to be used ONLY in case of combination with horizontal hydraulic separator code: 20131897.

This shunt pump cannot be fitted within the boiler, it has to be installed under the gas fired boiler.

3.2 Additional safety devices

Description	Notes	Code
SA installation kit for stand-alone boiler	(1)(2)	20142219
Manifold kit with safety devices (INAIL) for stand alone boiler	(3)	20131898
Manifold kit with safety devices for stand alone boiler	(4)(5)	20189780
Safety valve 5.4 bar ØG.¾'' FF		20143981
Kit with connection pipe to hydraulic separator for stand alone boiler		20131899
Shut-off cock		20190221

- This kit is necessary for the stand-alone installation. It contains: connection pipe kit (1x code 20131899), hydraulic separator kit for stand alone boiler (1x code 20131897), condensate drain syphone (1x code 20133102), safety valve 5.4 bar (1x code 20143981) and 2 ball valves.

 Condensate drain syphone (code 20133102) is not included in the boilers.

 Includes all the safety devices, including safety valve and VIC mandatory for the Italian market.

 Includes pressure gauge, thermometer and 3 bar safety valve (3/4 "FF). Coupled with the under boiler cover kits (20145587 or 20133224) it allows the display of temperature and pressure values

 If an operating pressure> 3 bar is required, it can be combined with the safety valve code 20143981. (3) (4)

3.3 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Horizontal hydraulic separator kit for stand alone boiler		20131897
Frame kit for front cascades	(1)	20131663
Frame conversion kit for B2B cascades		20131664
2/3 way valve kit	(2)	20125037
Brazed plate heat exchanger kit for stand alone boiler (20 plates)	(3)	20132368
Brazed plate heat exchanger kit for stand alone boiler (30 plates)	(3)	20132369
Brazed plate heat exchanger kit for stand alone boiler (40 plates)	(3)	20132370
Brazed plate heat exchanger kit for stand alone boiler (50 plates)	(3)	20132371
Brazed plate heat exchanger kit for stand alone boiler (60 plates)	(3)(4)	20132372
Delivery/return line fittings kit for direct installation (57–135 kW)		20136823
Cover for plate heat exchanger		20145587
Cover for safety kit/hydraulic separator unit for stand alone boiler		20133224

- The frame is necessary in the case of installation with plate heat exchanger. Kit combinable with plate heat exchanger kits for stand alone boiler for DHW production.
- To be installed mandatory with code 20131663.
 To be mandatory combined with the circulator code 20125040.

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

Description		9	Safety devices	1	Fra	ime		Pumps		Plate heat exchangers							
	S	afety de	vices	INAIL													
		€ De				\$		ß		80			dary °C 60°C	ΔT primary/s = 7.2			
	Kit with connection pipe to hydraulic separator for stand alone boiler	Safety valve 5.4 bar ØG.¾" FF	Manifold kit with safety devices for stand alone boiler	Manifold kit with INAIL safety devices for stand alone boiler	Frame kit for front cascades	Frame conversion kit for B2B cascades	Injection pump kit (90-115 kW)	Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	Injection pump kit with high residual head (135 kW)	Brazed plate heat exchanger kit for stand alone boiler (20 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)	Brazed plate heat exchanger kit for stand alone boiler (40 plates)	Brazed plate heat exchanger kit for stand alone boiler (60 plates)	Brazed plate heat exchanger kit for stand alone boiler (30 plates)	Brazed plate heat exchanger kit for stand alone boiler (40 plates)	Brazed plate heat exchanger kit for stand alone boiler (50 plates)	Brazed plate heat exchanger kit for stand alone boiler (60 plates)
	20131899	20143981	20189780	20131898	20131663	20131664	20125034	20125035	20125040	20132368	20132369	20132370	20132372	20132369	20132370	20132371	20132372
CONDEXA PRO 57 P	•	•	•	•	•	• (*)	•			•				•			
CONDEXA PRO 70 P	•	•	•	•	•	• (*)	•			•				•			
CONDEXA PRO 90	•	•	•	•	•	• (*)	•				•				•		
CONDEXA PRO 100	•	•	•	•	•	• (*)	•				•				•		
CONDEXA PRO 115	•	•	•	•	•	• (*)		•				•				•	
CONDEXA PRO 135	•	•	•	•	•	• (*)			•				•				•

^(*) To be used in case where the frame is not bound to the wall.

3.4 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
Electronic kit for managing additional direct or mixed zone	(2)	20130811

3.5 Outdoor installation

Description						
IPX5D kit for outdoor installation (57–70 kW)	20132365					
IPX5D kit for outdoor installation (90–135 kW)	20128135					

3.6 Sealed chamber conversion kit (C type)

Description	Code
Conversion kit C type (57–70 kW)	20131665
Conversion kit C type (90–135 kW)	20131668

3.7 Flue system

Description	Notes	Code
Spacer kit for fixing to wall	(1)	20131270

(1) Kit required for rear wall concentric discharge

NOTE: for each type check the maximum equivalent lengths by consulting the technical data sheet and/or contacting the pre-sales service. For the flue gas system, refer to page 349.

3.8 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 280 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810

⁽¹⁾ Equipped with extraction pumps.

Utilized for the management of secondary/tank circuit. The maximum number of kits that can be installed is 16

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats on page 420.

BOILERS CASCADE CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. BOILERS CASCADE CONFIGURATION
- 2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK
- 3. ACCESSORIES TO COMPLETE THE SYSTEM
- 4. ACCESSORIES
- 4.1 Support frame
- 4.2 Shunt pumps
- 4.3 Connection pipes
- 4.4 Water collectors (delivery/return) -gas-condensate
- 4.5 Additional safety devices
- 4.6 Hydraulic separator or plate heat exchanger*
- 4.7 Secondary circuit management
- 4.8 Sealed chamber conversion kit
- 4.9 Flue gas exhaust systems
- 4.10 Treatment systems for condensate neutralization
- (*) Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.

1. BOILERS CASCADE CONFIGURATION

Powers obtainable with cascade system installation

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Nr. boilers			TOTAL	POWER		
2	114	136	180	194	224	262
3	171	204	270	291	336	393
4	228	272	360	388	448	524
5	285	340	450	485	560	655
6	342	408	540	582	672	786
7	399	476	630	679	784	917
8	456	544	720	776	896	1048
9	513	612	810	873	1008	ND
10	570	680	900	970	1120	ND

Key to lay-out

ND

Solution that provides the least number of boilers

A solution that provides, with the same power, a greater number of boilers and therefore a greater modulation ratio

Solution that provides, with the same power mdi, the maximum modulation ratio

Solution not available

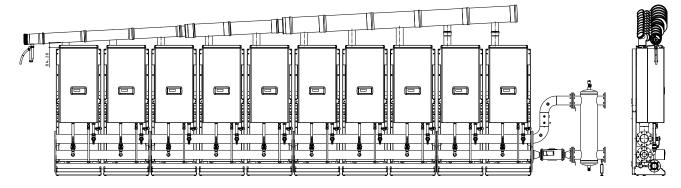
AUGUST 2024 EDITION

TERMINAL UNITS

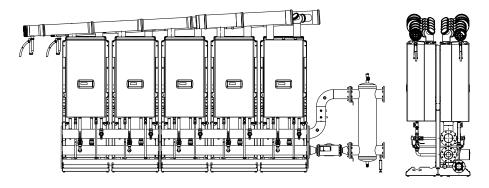
2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK, In relation to the space available

FRONT configuration

RIELLO



BACK-TO-BACK configuration



3. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Language	Notes	Code
Condensate drain kit for cascade boiler		(1)	20131267
External probe		(2)	20132778
Primary probe	IT/EN (2)(3)	20175714
Set of manuals for the CONDEXA PRO CASCADE	FR/NL/DE		20150950
Set of manuals for the CONDEXA PRO CASCADE	ES/PT		20151280
Set of manuals for the CONDEXA PRO CASCADE	RU/UA		20151282
Set of manuals for the CONDEXA PRO CASCADE	PL/HU/RO		20151281
Set of manuals for the CONDEXA PRO CASCADE	SK/CZ/GR/SI/CR		20151949

- To be ordered for each boiler of the cascade system (q.ty = no. boilers)
 One probe for each system in cascade, to be connected to the master boiler
 It must be associated mandatorly with the appropriate "Set of manuals for the CONDEXA PRO CASCADE".

4. ACCESSORIES

4.1 Support frame

Description		
Frame kit for front cascades	20131663	
Frame conversion kit for B2B cascades	20131664	

	FRONT	BACK-T	O-BACK
No. boilers	20131663 Q.ty frame	20131663 Q.ty frame	20131664 Q.ty conversion kit
2	2	1	1
3	3	2	2
4	4	2	2
5	5	3	3
6	6	3	3
7	7	4	4
8	8	4	4
9	9	5	5
10	10	5	5

4.2 Shunt pumps for single boiler (only for 90-135 kW)

Description	Notes	Code
Injection pump kit (90-115 kW)	(1)	20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)	20125035
Injection pump kit with high residual head (135 kW)	(2)	20125040

- To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed inside the boiler. To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed outside the boiler.

4.3 Connection pipes

Description	Notes	Code
FRONT CONFIGURATION		
Pipes without shut-off (57-135 kW)	(1)	20130658
Pipes with shut-off (57-135 kW)	(1)	20131124
Pipes without shut-off (135 kW) (external pump)	(2)	20131121
Pipes with shut-off (135 kW) (external pump)	(2)	20131125
BACK-TO-BACK CONFIGURATION		
Pipes without shut-off (57-135 kW)	(3)	20130658
Pipes with shut-off (57-135 kW)	(3)	20131124
Pipes without shut-off (135 kW) (external pump)	(4)	20131121
Pipes with shut-off (135 kW) (external pump)	(4)	20131125
Pipes without shut-off (57-135 kW) (B2B)	(5)	20131787
Pipes with shut-off (35-135 kW) (B2B)	(5)	20131791
Pipes without shut-off (135 kW) (external pump) (B2B)	(6)	20131788
Pipes with shut-off (135 kW) (external pump) (B2B)	(6)	20131792

- To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed inside the boiler. (1) (2) (3) (4) (5) (6)
- To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed outside the boiler. To be ordered for each boiler on collectors side with pump or valve installed inside the boiler.

 To be ordered for each boiler on collectors side with pump or valve installed inside the boiler.

 To be ordered for each boiler on collectors side with pump or valve installed outside the boiler.

 To be ordered for each boiler on the side opposite the collectors with pump or valve installed inside the boiler.

 To be ordered for each boiler on the side opposite the collectors with pump or valve installed outside the boiler.

4.4 Water collectors (delivery/return) - gas - condensate

Description	Notes	Code
3" collectors kit for cascades for 1 boiler	(1)	20133220
3" collectors kit for cascades for 2 boilers	(2)	20130220
3" collectors kit for cascades for 3 boilers	(2)	20130221
5" collectors kit for cascades for 2 boilers	(3)	20130222
5" collectors kit for cascades for 3 boilers	(3)	20130223
3" closing plugs kit		20070903
3" through-flanges kit		20082190
5" closing plugs kit		20070907
5" through-flanges kit		20082191
Cover with insulation for cascade collectors/pipes		20132377

- To be used for the BACK TO BACK configuration with 2 boilers; includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector. (1)
- (2) (3) To be used with a maximum output of up to 485 kW. Includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector. To be used with a maximum output of over 485 kW. Includes 5" flanged deliver/return collectors DN125, 3" threaded gas collector DN80, condensate drain

TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers		TO	TAL CASCADE OUTPUT/D	IAMETER H ₂ O COLLECTO	RS	
2	114/3"	136/3"	180/3"	194/3"	224/3"	262/3"
3	171/3"	204/3"	270/3"	291/3"	336/3"	393/3"
4	228/3"	272/3"	360/3"	388/3"	448/3"	524/5"
5	285/3"	340/3"	450/3"	485/3"	560/5"	655/5"
6	342/3"	408/3"	540/5"	582/5"	672/5"	786/5"
7	399/3"	476/3"	630/5"	679/5"	784/5"	917/5"
8	456/3"	544/5"	720/5"	776/5"	896/5"	1048/5"
9	513/5"	612/5"	810/5"	873/5"	1008/5"	-
10	570/5"	680/5"	970/5"	970/5"	1120/5"	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers		SELECTI	ON OF COLLECTOR CODE	ES FOR FRONT CONFIGU	RATION	
2	1 x 20130220					
3	1 x 20130221					
4	2 x 20130220	2 x 20130222				
5	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223			
6	2 x 20130221	2 x 20130221	2 x 20130223	2 x 20130223	2 x 20130223	2 x 20130223
7	2 x 20130220 1 x 20130221	2 x 20130220 1 x 20130221	2 x 20130222 1 x 20130223			
8	1 x 20130220 2 x 20130221	1 x 20130222 2 x 20130223				
9	3 x 20130223	-				
10	2 x 20130222 2 x 20130223	-				

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100 CONDEXA PRO 115		CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers		SELECTION OF	H20 COLLECTOR CODES	FOR BACK TO BACK COM	NFIGURATIONS	
2	1 x 20133220	1 x 20133220	0133220 1 x 20133220 1 x 20133220 1 x 20133220		1 x 20133220	
3	1 x 20130220	1 x 20130220	1 x 20130220		1 x 20130220	
4	1 x 20130220	1 x 20130220	20130220 1 x 20130220 1 x 20130220 1 x 20130220		1 x 20130220	1 x 20130222
5	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221		1 x 20130223
6	1 x 20130221	1 x 20130221	0221 1 x 20130223 1 x 20130223 1 x 20130223		1 x 20130223	
7	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
8	2 x 20130220	220 2 x 20130222 2 x 20130222 2 x 20130222 2 x 20130222		2 x 20130222		
9	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223			-	
10	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	-

4.5 Additional safety devices

Description	Notes	Code
Manifold kit for 3" safety devices housing		20070910
Manifold kit for 5" safety devices housing		20070912
Safety devices kit	(1)	20071190
Safety valve up to 460 kW (5,4 bar ØG.¾" F)		20023104
Safety valve up to 580 kW (5,4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(2)(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(3)(6)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(6)	20061640
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve	(7)	20161191

- Does not include safety valve and VIC.
- Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (2) (3) (4) (5) (6)
- Recommended up to a maximum output of 1150 kW, calculated taking into consideration the gas supply pressure = 20 mbar. Intervention temperature 97 °C Capillary length 5 m.

 To be istalled in combiantion with flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve code 20061640.

NOTE: to calculate the maximum admissible output of the VIC, with supply pressures other than 20 mbar, contact the pre-sales service.

TABLE FOR SELECTING THE SAFETY VALVES

	Total cascade heat output (kW)	0-460	461-580	581-920	921-1160
-	(No.) Diameter	1 x ³/₄"	1 x 1"	2 x ³/₄"	2 x 1"
	safety valve	1 x code 20023104	1 x code 20023106	2 x code 20023104	2 x code 20023106

4.6 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Hydraulic separator kit 5"-up to 485 kW	(1)	20009467
Hydraulic separator kit 10"-up to 580 kW	(2)	20069073
Hydraulic separator kit 10"-up to 1120 kW	(3)	20069074
Fittings kit for plate heat exchanger (DN80 collectors side – 3"/DN50 plate heat exchanger side)	(4)	20132373
Fittings kit for plate heat exchanger (DN125 collectors side – 5"/DN65 plate heat exchanger side)	(4)	20203733
Fittings kit for plate heat exchanger (DN125 collectors side – 5"/DN100 plate heat exchanger side)	(5)	20132376
Ground fixing kit (SP 35-40 models)		20120282
Ground fixing kit (SP 60 models)		20120284

- To be used with a maximum output of up to 485 kW in combination with 3" collectors.
- To be used with a maximum output of up to 485 kW in Combination with 3" collectors.

 To be used with a maximum output of over 485 and up to 580 kW in combination with 5" collectors.

 To be used with a maximum output of over 580 kW and up to 1120 kW in combination with 5" collectors.

 To be mandatory ordered with "Ground fixing kit SP 35-40" code 20120282.

 To be mandatory ordered with "Ground fixing kit SP 60" code 20120284.
- (1) (2) (3) (4) (5)

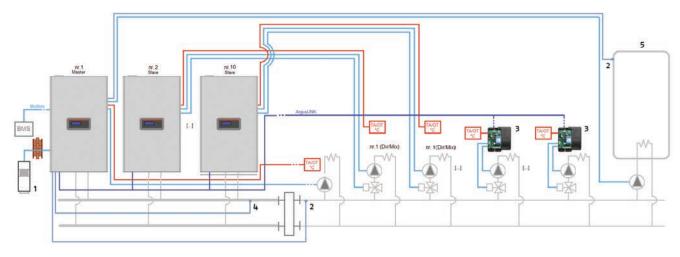
TERMINAL UNITS

4.7 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	(2)	20130811

- Utilized for the management of secondary/tank circuit.
- Kit required whenever the number of the heating zones, direct or mixed, is higher than the number of slave boilers.

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats.



Key to layout

- 1. External probe code 20132778
- 2. Immersion probe code 1220599
- 3. Electronic kit for managing additional direct or mixed zone (max 16) code 20130811
- 4. Primary probe code 20175714
- 5. DHW cylinder

4.8 Sealed chamber conversion kit

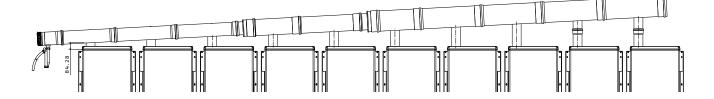
Description	Code
Conversion kit C type (57–70 kW)	20131665
Conversion kit C type (90-135 kW)	20131668

4.9 Flue gas exhaust systems

Description	Notes	Code
Adaptor Ø80/110	(1)	20131238
Cascade terminal Ø160 with condensate drain		20062338
Collector Ø160 for 1 boiler		20131266
Eccentric adaptor Ø160/200		20132391
Collector Ø200 for 1 boiler		20131901
Eccentric adaptor Ø200/250		20132393
Collector Ø250 for 1 boiler		20131903
Y-fitting Ø160/160		20132381
Y-fitting Ø160/200		20132384
Y-fitting Ø160/250		20132385
Y-fitting Ø200/250		20132386

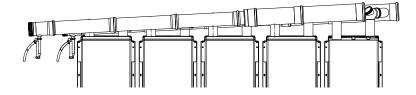
(1) Mandatory only for models 57-70.

FRONT configuration - max 10 boilers

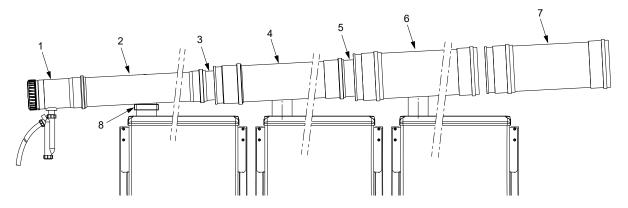


BACK-TO-BACK configuration - max 5 + 5 boilers

NOTE: the BACK TO BACK configuration has separate lines for each row of boilers, collectors side and the opposite side.



FLUE CONFIGURATION LAY-OUT



- 1 Code 20062338 Cascade terminal ø160 with condensate drain
- 2 Code 20131266 Collector ø160 for 1 boiler
- 3 Code 20132391 Eccentric adaptor ø160/200
- 4 Code 20131901 Collector Ø200 for 1 boiler
- 5 Code 20132393 Eccentric adaptor ø200/250
- 6 Code 20131903 Collector ø250 for 1 boiler

- 7 Only for BACK TO BACK layout
 - Code 20132381 Y-fitting ø160/160
- Code 20132384 Y-fitting ø160/200
- Code 20132385 Y-fitting Ø160/250
- Code 20132386 Y-fitting ø200/250
- 8 Code 20131238 Adaptor ø80/110 (only for models 57-70)

TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers			FLUE GASES/A	IR DIAMETERS		
1 ^a	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160
2ª	160	160	160	160	160	160
3ª	160	160	160	160	160	160
4ª	160	160	160	160	160	200
5ª	160	160	200	200	200	200
6ª	160	160	200	200	200	250
7ª	160	200	200	200	250	250
8ª	200	200	250	250	250	250
9ª	200	200	250	250	250	-
10ª	200	200	250	250	250	-

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN FRONT CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 90 CONDEXA PRO 100 CONDEXA PRO 115		CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers		SELECTION OF	FLUE GASES COLLECTOF	R CODES FOR FRONT CO	NFIGURATIONS	
2	2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266
3	3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266
4	4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	1 X 20062338		1 x 20062338 3 x 20131266 1 x 20132391 1 x 20131901	
5	5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	B 4 X 20131266 4 X 20131266 4 X 20131266 1 x 20132391 1 x 20132391 1 x 20132391		1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901	
6	6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903
7	7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903
8	8 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 1 x 20131901	8 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903
9	9 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 2 x 20131901	9 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903	nd
10	10 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 3 x 20131901	10 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 4 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 4 x 20131903	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	57	68	90	97	112	131
No. boilers		SELECTION OF FLUE	GASES COLLECTOR CO	DES FOR BACK TO BACK	K CONFIGURATIONS	
2	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381
3	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381
4	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132384
5	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	2 x 20062338 5 x 20131266 1 x 20132384			
6	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132385
7	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132385	2 x 20062338 5 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
8	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 6 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
9	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd
10	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

4.10 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 280 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450-1500 kW)		4031812
Condensate neutralizer HN3 (280-750 kW)	(1)(D)	4031813

(1) Equipped with extraction pumps.

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

ERP

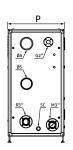
TERMINAL UNITS

Floor-standing gas condensing units for indoor use

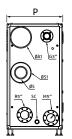
Steel Pro Power











G = GAS M = FLOW

M = FLOW

SC = CONDENSATE DISCHARGE

- In conformity with Directive 2009/125/EC
- Condensing modular thermal units for indoor applications (outdoor with optional kit) composed of painted technical cabinet, thermal modules from 57 kW up to 131 kW and system accessories
- Low polluting emissions, class 6 (UNI EN 15502)

Description	H mm	L mm	P mm	ØA mm	ØA1 mm	ØS mm	ØS1 mm	Net weight kg
STEEL PRO POWER 114-2	1800	900	890	160	_	160	-	270
STEEL PRO POWER 140-2	1800	900	890	160	_	160	-	270
STEEL PRO POWER 180-2	1800	900	890	160	_	160	-	280
STEEL PRO POWER 230-2	1800	900	890	160	_	160	-	300
STEEL PRO POWER 270-2	1800	900	890	-	300	160	300	350
STEEL PRO POWER 300-3	1800	1700	890	160	-	160	-	450
STEEL PRO POWER 345-3	1800	1700	890	160	-	160	-	490
STEEL PRO POWER 405-3	1800	1700	890	-	300	160	300	540
STEEL PRO POWER 460-4	1800	1700	890	160	_	160	-	560
STEEL PRO POWER 540-4	1800	1700	890	-	300	160	300	600

Steel Pro Power is the new Riello modular condensing system, specially designed and developed to achieve very high energy efficiency values, minimizing the space occupied.

The system, ready for a simple and quick installation, consists of technical cabinets designed according to the principles of modularity, consisting of an anodised aluminium frame assembly and painted panels.

The standard product is suitable for open chamber indoor installation and it can be transformed into sealed or outdoor installation version with the fitting of specific accessory kits. The cabinets are equipped with 2, 3 or 4 heating elements from 57 up to 131 kW, for a total heat input from 114 up to 524 kW and are available in the versions that associate to each thermal module low consumption circulators ("P" models) or 2-way valves ("V" models); the standard supply also includes electronic control, hydraulic supply and return, gas, fumes and condensate discharge manifolds.

The heat exchangers, with patented geometries, consist of two smooth concentric stainless steel pipes, having the pentagonal section of the inside and the circular section outside of the chamber; they have been specially designed to maximize the exchange surface, offering maximum corrosion resistance and minimum load losses. These features allow you to work with high ΔT , reducing the time of system start-up.

The models with 131 kW exchanger (270-405-540) are designed for side-by-side cascade installation, up to a maximum of 10 units and a power of 1310 kW in total. The control electronics, compatible with the MOD-BUS protocol, allow the climatic regulation with cascade management of the thermal modules, automatic summer/winter switching, possibility of remote management via 0..10V input and alarm output signal.

INTERNATIONAL PRODUCT CATALOGUE

The control system manages the heat distribution on the secondary circuit, controlling: one direct zone, one or more mixed zones (from 1 to 3 depending on the model) and the cylinder circuit.

Through special accessories there is also the possibility to manage additional mixed zones (up to max 16).

Optimal combustion management and high modulation ratios (up to 1:50) allow high efficiency and low pollutant emissions (Class 6 according to UNI EN 15502). The continuity of service is ensured by the system modularity: even in the event of a module failure, the overall operation is not compromised. The accessories designed to guarantee a simple, rapid and complete installation of the thermal power plant are also available. Maximum operating pressure 6 bar.

TECHNICAL DATA

Description		Power -	kW		Efficiency -	%	Notes	Language	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
STEEL PRO POWER 114–2 P	114,4	123,8	13,7-114	97,7	108,6	109,4	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138572 20162048 20162091 20162140 20162171 20162191 20192691
STEEL PRO POWER 140-2 P	134,0	147,8	13,7-136	98,5	108,1	109,3	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138573 20162051 20162092 20162141 20162172 20162192 20192692
STEEL PRO POWER 180-2 P	176,6	194,8	19,4-180	98,1	108,3	108,9	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138574 20162052 20162093 20162143 20162173 20162193 20192693
STEEL PRO POWER 230-2 P	219,6	242,2	22,4-223,2	98,4	108,6	108,9	(1)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138575 20162060 20162094 20162144 20162174 20162194 20192694
STEEL PRO POWER 270–2 P	258,0	284,2	26,3-262	98,5	108,3	109,4	(1)(4)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138576 20162063 20162095 20162145 20162175 20162195 20192695
STEEL PRO POWER 300–3 P	285,9	315,3	19,4-291	98,2	108,2	108,9	(2)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138577 20162064 20162097 20162146 20162176 20162196 20192696
STEEL PRO POWER 345–3 P	329,4	363,6	22,4-334,8	98,4	108,6	108,9	(2)	IT/EN FR/DE ES/PT RU/UA PL/RO GR/CR CH/BE/HU	20138578 20162065 20162098 20162148 20162177 20162197 20192697

Description		Power - I	c W		Efficiency -	%	Notes	Language	Code
	0utput useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
								IT/EN	20138579
								FR/DE	20162066
								ES/PT	20162101
STEEL PRO POWER 405-3 P	387,0	426,3	23,6-393	98,5	108,3	109,4	(2)(4)	RU/UA	20162151
								PL/RO	20162178
								GR/CR	20162198
								CH/BE/HU	20192698
								IT/EN	20138580
								FR/DE	20162074
								ES/PT	20162103
STEEL PRO POWER 460-4 P	439,2	484,4	22,4-446,4	98,4	108,6	108,9	(3)	RU/UA	20162152
								PL/RO	20162179
								GR/CR	20162199
								CH/BE/HU	20192699
								IT/EN	20138581
								FR/DE	20162077
								ES/PT	20162104
TEEL PRO POWER 540-4 P	516,0	568,4	26,3-524	98,5	108,3	109,4	(3)(4)	RU/UA	20162153
								PL/RO	20162180
								GR/CR	20162200
								CH/BE/HU	20192700

- (1) Model with 2 thermal elements.
- (2) Model with 3 thermal elements.(3) Model with 4 thermal elements.
- (3) Model with 4 thermal elements.(4) Models usable for cascaded systems.

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION



- 1. BOILER CONFIGURATION
- 2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)
- 3. HYDRAULIC INTERCEPTION OF THERMAL MODULES
- 4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
- 5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS*
- 6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX
- 7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION
- 8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES
- 9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION
- (*) Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.

1. BOILER CONFIGURATION

Choice of the type of installation:

A - Stand alone

B - Cascade

A - STAND ALONE HEAT INPUT

Description					STEEL PR	O POWER				
	114-2	140-2	180-2	230-2	270-2	300-3	345-3	405-3	460-4	540-4
Rated heat input kW	114	136	180	224	262	291	336	393	448	524

B - CASCADE SYSTEM HEAT INPUT

Description	Heat input kW	STEEL PRO POWER 270-2 P/270-2 V	STEEL PRO POWER 405-3 P/405-3 V	STEEL PRO POWER 540-4 P/540-4 V
			N. of units	•
STEEL PRO POWER SYSTEM 675	655	1	1	_
STEEL PRO POWER SYSTEM 810	786	1	-	1
STEEL PRO POWER SYSTEM 945	917	-	1	1
STEEL PRO POWER SYSTEM 1080	1048	-	-	2
STEEL PRO POWER SYSTEM 1215	1179	1	1	1
STEEL PRO POWER SYSTEM 1350	1310	1	-	2

2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)

Description	Code
Ø50/80 mm air adapter	20145144
Air hose kit for fan/collector connection Ø160 mm	20145141
Air hose kit for fan/manifold connection Ø300 mm	20145137
Air manifold for Ø160 mm models – for models with 2 thermal modules	20145185
Air manifold for Ø160 mm models – for models with ¾ thermal modules	20145186
Air manifold for Ø300 mm models – for models with 2 thermal modules	20145187
Air manifold for Ø300 mm models – for models with ¾ thermal modules	20145189

MATCHING TABLE OF SEALED TRANSFORMATION KIT CODES IN RELATION TO THE UNIT MODEL

Description			Kit	code/Quan	tity		
	20145144	20145141	20145137	20145185	20145186	20145187	20145189
STEEL PRO POWER 114-2	2x●	2x●		1x ●			
STEEL PRO POWER 140-2	2x●	2x ●		1x ●			
STEEL PRO POWER 180-2		2x●		1x ●			
STEEL PRO POWER 230-2		2x●		1x ●			
STEEL PRO POWER 270-2			2x ●			1x ●	
STEEL PRO POWER 300-3		3x●			1x ●		
STEEL PRO POWER 345-3		3x●			1x ●		
STEEL PRO POWER 405-3			3x ●				1x ●
STEEL PRO POWER 460-4		4x●			1x ●		
STEEL PRO POWER 540-4			4x ●				1x ●
STEEL PRO POWER SYSTEM 675			5x●			1x ●	1x ●
STEEL PRO POWER SYSTEM 810			бх●			1x ●	1x ●
STEEL PRO POWER SYSTEM 945			7x ●				2x ●
STEEL PRO POWER SYSTEM 1080			8x●				2x●
STEEL PRO POWER SYSTEM 1215			9x ●			1x ●	2x●
STEEL PRO POWER SYSTEM 1350			10x●			1x ●	2x●

3. HYDRAULIC INTERCEPTION OF THERMAL MODULES

Description	Notes	Code
2-way valve kit for hydraulic interception kit	(1)	20145169

⁽¹⁾ To be ordered in number equal to the number of modules in the system.

4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Junction kit for cascade (Fume Ø300 – Air Ø300 – Condensation Ø50)		20157593
Junction kit for cascade with spacer (150 mm)	(1)	20145237
Safety kit	(2)	20071190
Safety valve up to 460 kW (5.4 bar ØG.¾" F)		20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(3)(4)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(4)(5)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(4)(7)	20061640
Flanged reduction kit 3"/2" (DN80/DN50)		20145184
Flanged 2" DN50 PN6/threaded ØG.2" adapter kit for VIC valve		20094187
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve		20161191
2 "- 1" gas adapter for VIC valve		20147994
2 "- 1" ½ gas adapter for VIC valve		20147990
Adapter kit for VIC valve flanged from DN80 to threaded ØG.2 "		20146852
Flanged reduction kit 5"/3" (DN125/DN80)		20145183
3" closing plugs kit	(8)	20070903
5" closing plugs kit	(8)	20070907
Flange kit 3"		20082190
Flange kit 5"		20082191
Extension kit 3"	(9)(11)	20167872
Extension kit 5"	(10)(11)	20167873
Hydraulic flow manifold 3"		20145172
Hydraulic flow manifold 5"		20145177
Hydraulic return manifold 3"		20145181
Hydraulic return manifold 5"		20145182

- (D) (1)
- (2) (3) (4) (5) (6) (7) (8) (9)
- Availability of the material at our warehouse: 25 working days from the date of the order's validation. Includes connections H₂0 5" Gas 3" Fumes Ø300 Condensation Ø50.

 It does not include a safety valve and VIC.

 Recommended up to a maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.

 Operating temperature at 97 ° C Capillary tube 5 m.

 Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

 Kit to close the unused side.

- To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 485 kW.
- (10) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 1310 kW.
 (11) On the delivery pipe there are specific sleeves for housing safety kit devices.

NOTE: to calculate the maximum permissible power of the VICs, with different pressure supply from 20 mbar, contact the pre-sales service.

5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS*

Description	Notes	Code
3" hydraulic separator (up to 485 kW)		20145255
5" hydraulic separator (up to 1310 kW)		20145260
Left technical box with hydraulic separator (up to 485 kW)	(1)	20145252
Left technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145254
Right technical box with hydraulic separator (up to 485 kW)	(1)	20145247
Right technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145250
Connection kit for plate heat exchanger DN80/DN50		20146827
Connection kit for plate heat exchanger DN125/DN65		20203748
Connection kit for plate heat exchanger DN125/DN100		20146829
Left technical box for plate heat exchanger (up to 485 kW)		20146833
Left technical box for plate heat exchanger (up to 800 kW)	(D)	20203212
Left technical box for plate heat exchanger (up to 1310 kW)	(D)	20146836
Right technical box for plate heat exchanger (up to 485 kW)		20146830
Right technical box for plate heat exchanger (up to 800 kW)	(D)	20203211
Right technical box for plate heat exchanger (up to 1310 kW)	(D)	20146832
Right/left technical box or 3" extension kit (270/485 kW)	(D)(2)(3)	20158562
Right/left technical box or 5" extension kit (580/1310 kW)	(D)(2)(3)	20158564

- (D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
 (1) Contain the hydraulic separator within them.
 (2) Single or twin type pump.
 (3) They do not contain the circulator inside them.
 (*) Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.

MATCHING TABLE OF SAFETY DEVICES IN RELATION TO THE UNIT MODEL

Description	Safety kit		fety Ives					VIC valve	!S			
				TORY ACCE	SSORIES			ACCES	ACCESSORIES TO BE SELECTED ACCORDING TO INSTALLATION			
		ar					Ē.	With	out techn			nnical box
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.¾" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" ½	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3	3"/2" flanged reduction kit (DN80/DN50)	Flanged 2" DN50 PN6/ threaded ØG.2" adapter kit	Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit	3"/2" flanged reduction kit (DN80/DN50)	Flanged DN80/threaded ØG.2" adapter kit
	20071190	20023104	20023106	20009486	20009482	20009483	20061640	20145184	20094187	20161191	20145184	20146852
STEEL PRO POWER 114-2	1x ●	1x ●		1x ●					1x •			
STEEL PRO POWER 140-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 180-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 230-2	1x ●	1x ●			1x ●				1x ●			
STEEL PRO POWER 270-2	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●	
STEEL PRO POWER 300-3	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 345-3	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 405-3	1x ●	1x ●				1x ●		1x ●	1x ●		1x ●	
STEEL PRO POWER 460-4	1x ●	1x ●				1x ●			1x ●			
STEEL PRO POWER 540-4	1x ●		1x ●			1x ●		1x ●	1x •			1x ●
STEEL PRO POWER SYSTEM 675	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 810	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 945	1x ●	2x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1080	1x ●	3x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1215	1x ●	3x ●					1x ●			1x ●		
STEEL PRO POWER SYSTEM 1350	1x ●	3x ●					1x •			1x •		

MATCHING TABLE OF FLANGE, HYDRAULIC REDUCTION CODES IN RELATION TO THE UNIT MODEL

Description	Flanged reduction kit 5"/3" (DN125/DN80)	3" closing plugs kit	5" closing plugs kit	3" through-flanges kit	5" through-flanges kit
	20145183	20070903	20070907	20082190	20082191
STEEL PRO POWER 114-2		1x ●		2x•	
STEEL PRO POWER 140-2		1x ●		2x•	
STEEL PRO POWER 180-2		1x ●		2x•	
STEEL PRO POWER 230-2		1x ●		2x•	
STEEL PRO POWER 270-2	2x ●(*)		1x ●	2x•	
STEEL PRO POWER 300-3		1x ●		2x•	
STEEL PRO POWER 345-3		1x ●		2x•	
STEEL PRO POWER 405-3	2x ●(*)		1x ●	2x•	
STEEL PRO POWER 460-4		1x ●		2x•	
STEEL PRO POWER 540-4			1x ●		2x ●
STEEL PRO POWER SYSTEM 675			1x ●		2x •
STEEL PRO POWER SYSTEM 810			1x ●		2x ●
STEEL PRO POWER SYSTEM 945			1x ●		2x ●
STEEL PRO POWER SYSTEM 1080			1x ●		2x ●
STEEL PRO POWER SYSTEM 1215			1x ●		2x ●
STEEL PRO POWER SYSTEM 1350			1x ●		2x ●

^(*) Accessories necessary for the hydraulic connection to technical box.

EXTENSION KIT SELECTION TABLE

Description	With/without	technical box		With tech	nnical box	
	Extension kit 3"	Extension kit 5"	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit	2 "- 1" ½ gas adapter for VIC valve	2 "- 1" gas adapter for VIC valve
	20167872	20167873	20158562	20158564	20147990	20147994
STEEL PRO POWER 114-2	•		•		•	
STEEL PRO POWER 140-2	•		•			•
STEEL PRO POWER 180-2	•		•			•
STEEL PRO POWER 230-2	•		•			•
STEEL PRO POWER 270-2	•		•			
STEEL PRO POWER 300-3	•		•			
STEEL PRO POWER 345-3	•		•			
STEEL PRO POWER 405-3	•		•			
STEEL PRO POWER 460-4	•		•			
STEEL PRO POWER 540-4		•		•		
STEEL PRO POWER SYSTEM 675		•		•		
STEEL PRO POWER SYSTEM 810		•		•		
STEEL PRO POWER SYSTEM 945		•		•		
STEEL PRO POWER SYSTEM 1080		•		•		
STEEL PRO POWER SYSTEM 1215		•		•		
STEEL PRO POWER SYSTEM 1350		•		•		

TECHNICAL CABINET SELECTION TABLE FOR EXTENSION KIT HOUSING

Description	2 "- 1" gas adapter for VIC valve	2 "- 1" ½ gas adapter for VIC valve	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit
	20147994	20147990	20158562	20158564
STEEL PRO POWER 114-2	•		•	
STEEL PRO POWER 140-2		•	•	
STEEL PRO POWER 180-2		•	•	
STEEL PRO POWER 230-2		•	•	
STEEL PRO POWER 270-2			•	
STEEL PRO POWER 300-3			•	
STEEL PRO POWER 345-3			•	
STEEL PRO POWER 405-3			•	
STEEL PRO POWER 460-4			•	
STEEL PRO POWER 540-4				•
STEEL PRO POWER SYSTEM 675				•
STEEL PRO POWER SYSTEM 810				•
STEEL PRO POWER SYSTEM 945				•
STEEL PRO POWER SYSTEM 1080				•
STEEL PRO POWER SYSTEM 1215				•
STEEL PRO POWER SYSTEM 1350				•

MATCHING TABLE OF HYDRAULIC SEPARATOR AND ACCESSORIES IN RELATION TO THE UNIT MODEL

Description		Wi	thout te	chnical l	box		1	With tech	nnical bo	х
			Left/rig instal	ght side Ilation				side lation		t side Ilation
	3" connections up to 485 kW	5" connections up to 1310 kW	3" hydraulic flow manifold	5" hydraulic flow manifold	3" hydraulic return manifold	5" hydraulic return manifold	Left technical box for hydraulic separator up to 485 kW	Left technical box for hydraulic separator up to 1310 kW	Right technical box for hydraulic separator up to 485 kW	Right technical box for hydraulic separator up to 1310 kW
	20145255	20145260	20145172	20145177	20145181	20145182	20145252	20145254	20145247	20145250
STEEL PRO POWER 114-2	•		•		•		•		•	
STEEL PRO POWER 140-2	•		•		•		•		•	
STEEL PRO POWER 180-2	•		•		•		•		•	
STEEL PRO POWER 230-2	•		•		•		•		•	
STEEL PRO POWER 270-2	•		•		•		•		•	
STEEL PRO POWER 300-3	•		•		•		•		•	
STEEL PRO POWER 345-3	•		•		•		•		•	
STEEL PRO POWER 405-3	•		•		•		•		•	
STEEL PRO POWER 460-4	•		•		•		•		•	
STEEL PRO POWER 540-4		•		•		•		•		•
STEEL PRO POWER SYSTEM 675		•		•		•		•		•
STEEL PRO POWER SYSTEM 810		•		•		•		•		•
STEEL PRO POWER SYSTEM 945		•		•		•		•		•
STEEL PRO POWER SYSTEM 1080		•		•		•		•		•
STEEL PRO POWER SYSTEM 1215		•		•		•		•		•
STEEL PRO POWER SYSTEM 1350		•		•		•		•		•

MATCHING TABLE OF HYDRAULIC ACCESSORIES FOR HEAT EXCHANGER INSTALLATION IN RELATION TO THE UNIT MODEL

Description	Withou	ıt techni	cal box	With technical box							
				Left si	de insta	lation	Right s	ide insta	Illation		
	Connection kit for plate heat exchanger DN80 (Ø3")/DN50	Connection kit for plate heat exchanger DN125 (Ø5")/DN65	Connection kit for plate heat exchanger DN125 (Ø5")/DN100	Left technical box for plate heat exchanger up to 485 kW	Left technical box for plate heat exchanger up to 800 kW	Left technical box for plate heat exchanger up to 1310 kW	Right technical box for plate heat exchanger up to 485 kW	Right technical box for plate heat exchanger up to 800 kW	Right technical box for plate heat exchanger up to 1310 kW		
	20146827	20203748	20146829	20146833	20203212	20146836	20146830	20203211	20146832		
STEEL PRO POWER 114-2	•			•			•				
STEEL PRO POWER 140-2	•			•			•				
STEEL PRO POWER 180-2	•			•			•				
STEEL PRO POWER 230-2	•			•			•				
STEEL PRO POWER 270-2	•			•			•				
STEEL PRO POWER 300-3	•			•			•				
STEEL PRO POWER 345-3	•			•			•				
STEEL PRO POWER 405-3	•			•			•				
STEEL PRO POWER 460-4	•			•			•				
STEEL PRO POWER 540-4		•			•			•			
STEEL PRO POWER SYSTEM 675		•			•			•			
STEEL PRO POWER SYSTEM 810		•			•			•			
STEEL PRO POWER SYSTEM 945			•			•			•		
STEEL PRO POWER SYSTEM 1080			•			•			•		
STEEL PRO POWER SYSTEM 1215			•			•			•		
STEEL PRO POWER SYSTEM 1350			•			•			•		

6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX

Description	Notes	Code
Air/flue manifold technical box Ø160 mm L = 900 mm	(1)	20147030
Air/flue manifold technical box Ø300 mm L = 900 mm	(1)	20147028
Air/flue manifold technical box Ø160 mm L = 1800 mm	(1)	20157595
Air/flue manifold technical box Ø300 mm L = 1800 mm	(1)	20157598
"S" flue manifold technical box Ø300 mm L = 1800 mm (SP60-DN100)	(1)	20157599
Bands for crane lifting handling		20146844
Handling wheels	(2)	20146845
Internal light emergency and service kit		20146846

To be used as indicated in the tables below. To be used during installation.

OPEN CHAMBER BOILER CONFIGURATION

Selection table	Exhaust flue side	Technical box side
Table A	Right	Right
Table A	Left	Left
Collectors not possessive	Left	Right
Collectors not necessary	Right	Left

ROOM SEALED BOILER CONFIGURATION

Selection table	Exhaust flue side	Air suction side	Technical box side
Table A	Right	Right	Right
Table A	Left	Left	Left
	Left	Right	Right
	Left	Right	Left
Table B	Right	Left	Right
	Right	Left	Left
	Left	Left	Right
Collectors not necessary	Right	Right	Left

LEFT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger



RIGHT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger



TABLE A

Code and number of the air/fume manifold		nical box (only "V"			fo	Techni r hydrauli		ator	Technical box for heat exchanger						
Chamber type	0pen c	hamber	Room	sealed	Open c	hamber	Room	sealed	0р	en cham	ber	Ro	om seal	led	
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599	
STEEL PRO POWER 114-2	1x ●		2x●		1x ●		2x●		1x ●			2x●			
STEEL PRO POWER 140-2	1x ●		2x●		1x ●		2x●		1x ●			2x•			
STEEL PRO POWER 180-2	1x ●		2x●		1x ●		2x●		1x ●			2x●			
STEEL PRO POWER 230-2	1x •		2x •		1x ●		2x•		1x ●			2x●			
STEEL PRO POWER 270-2 (*)	1x ●				1x ●				1x ●						
STEEL PRO POWER 300-3	1x ●		2x●		1x ●		2x●		1x ●			2x●			
STEEL PRO POWER 345-3	1x ●		2x●		1x ●		2x●		1x ●			2x●			
STEEL PRO POWER 405-3 (*)	1x ●				1x ●				1x ●						
STEEL PRO POWER 460-4	1x ●		2x●		1x ●		2x●		1x ●			2x●			
STEEL PRO POWER 540-4		1x ●		2x ●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER SYSTEM 675		1x ●		2x •		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER SYSTEM 810		1x ●		2x●		1x ●		2x●		1x ●			2x●		
STEEL PRO POWER SYSTEM 945		1x ●		2x ●		1x ●		2x●			1x ●			(**)	
STEEL PRO POWER SYSTEM 1080		1x ●		2x ●		1x ●		2x●			1x ●			(**)	
STEEL PRO POWER SYSTEM 1215		1x •		2x●		1x •		2x●			1x ●			(**)	
STEEL PRO POWER SYSTEM 1350		1x ●		2x●		1x •		2x●			1x ●			(**)	

NOTE: to be used only if the fume outlet side is the same as the hydraulic outlet side.

(*) Flue discharge/ air intake on the technical box side not available in case of sealed chamber, the air intake is mandatory on the boiler side.
(**) In case of a technical box with plate heat exchanger and sealed installation, the air intake must take place on the boiler side and not on the technical box side. In this case also for the pump technical box, if present, is necessary to adopt only one code 20147028.

TABLE B

Code and number of the air/fume manifold		nical box (only "V"			Tech	nical box sepa		raulic		Technical box for heat exchanger				
Chamber type	0pen c	hamber	Room	sealed	Open c	hamber	Room	sealed	0р	en cham	ber	Ro	om seal	ed
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 140-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 180-2	1x ●		1x ●		1x ●		1x •		1x ●			1x •		
STEEL PRO POWER 230-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 270-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 300-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 345-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 405-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 460-4	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 540-4		1x ●		1x ●		1x ●		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 675		1x ●		1x ●		1x ●		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 810		1x •		1x ●		1x •		1x •		1x ●			1x ●	
STEEL PRO POWER SYSTEM 945		1x ●		1x ●		1x ●		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1080		1x ●		1x ●		1x ●		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1215		1x •		1x •		1x •		1x •			1x ●			1x ●
STEEL PRO POWER SYSTEM 1350		1x ●		1x •		1x ●		1x ●			1x ●			1x •

7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION

Description	Code			
Kit IPX5D upper coverage for outdoor installation L = 900 mm	20146841			
Kit IPX5D upper coverage for outdoor installation L = 1800 mm	20146842			
Kit IPX5D display coverage	20146843			
Outdoor insulation kit for 3" blind flanges	20146953			
Outdoor insulation kit for 5" blind flanges				

 $\ensuremath{\mathsf{NOTE}}\xspace$ to be used only in the case of outdoor installation.

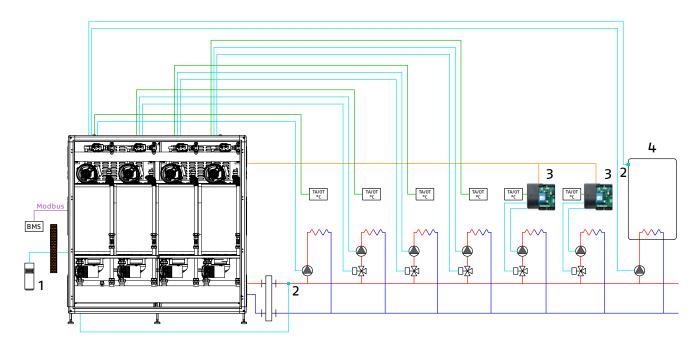
MATCHING TABLE OF BOX + DISPLAY COVERS SELECTION TABLE FOR OUTDOOR INSTALLATION

Description	Con	figuration for hyd		technica eparator		Configuration with technical box for plate heat exchanger					
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954	
STEEL PRO POWER 114-2 P	2x •		1x ●	1x •		1x •	1x •	1x •	1x •		
STEEL PRO POWER 140-2 P	2x •		1x ●	1x •		1x •	1x ●	1x •	1x •		
STEEL PRO POWER 180-2 P	2x •		1x ●	1x •		1x •	1x ●	1x •	1x •		
STEEL PRO POWER 230-2 P	2x •		1x ●	1x •		1x •	1x ●	1x •	1x •		
STEEL PRO POWER 270-2 P	2x ●		1x ●		1x •	1x ●	1x ●	1x ●		1x ●	
STEEL PRO POWER 300-3 P	1x ●	1x ●	1x ●	1x •			2x ●	1x ●	1x ●		
STEEL PRO POWER 345-3 P	1x ●	1x ●	1x ●	1x •			2x ●	1x ●	1x ●		
STEEL PRO POWER 405-3 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●	
STEEL PRO POWER 460-4 P	1x ●	1x ●	1x ●	1x •			2x ●	1x ●	1x ●		
STEEL PRO POWER 540-4 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●	
STEEL PRO POWER SYSTEM 675	2x •	1x ●	2x •		1x •	1x •	2x •	2x •		1x ●	
STEEL PRO POWER SYSTEM 810	2x ●	1x ●	2x ●		1x ●	1x ●	2x ●	2x ●		1x ●	
STEEL PRO POWER SYSTEM 945	1x ●	2x ●	2x ●		1x ●		3x ●	2x ●		1x ●	
STEEL PRO POWER SYSTEM 1080	1x ●	2x •	2x •		1x •		3x ●	2x •		1x ●	
STEEL PRO POWER SYSTEM 1215	2x ●	2x •	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●	
STEEL PRO POWER SYSTEM 1350	2x •	2x •	3x ●		1x ●	1x •	3x ●	3x ●		1x •	

8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES

Description	Notes	Code
External probe		20132778
Immersion probe	(1)	1220599
Electronic management kit for single direct or additional mixed zone (max 16)		20130811

Utilized for the management of secondary/tank circuit.



Key to layout

- 1. External probe code 20132778
- 2. Immersion probe code 1220599
- 3. Electronic kit for managing additional direct or mixed zone (max 16) code 20130811
- 4. DHW cylinder

9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450–1500 kW)	(D)	4031812
Condensate neutralizer HN2 (up to 280 kW)	(1)	4031811
Condensate neutralizer HN3 (280-750 kW)	(D)(1)	4031813

- Availability of the material at our warehouse: 30 working days from the date of the order's validation. Equipped with condensate pump.

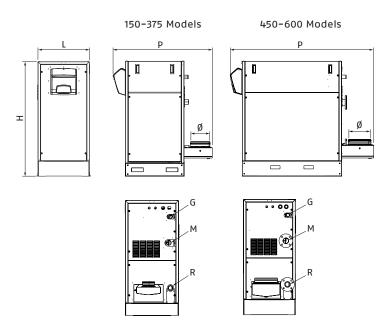
Modular condensing floor-standing boilers for indoor installation

Alu Pro Power





- In conformity with Directive 2009/125/EC
- Modular floor-standing condensing boilers, featuring a heat-exchanger made of a special aluminium and silicon alloy with a wide modulation range (up to 1:40) and extremely reduced dimensions



Description	H mm	L mm	P mm	ø mm	M/R Flow/Return connection	G Gas connection	Weight (empty) kg
ALU 115 PRO POWER	1534,5	690	1264	150	Ø 2" G	Ø 1" ½ G	240
ALU 150 PRO POWER	1534,5	690	1264	150	Ø 2" G	Ø 1" ½ G	240
ALU 225 PRO POWER	1534,5	690	1264	200	Ø 2" G	Ø 1" ½ G	310
ALU 300 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	395
ALU 349 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	470
ALU 375 PRO POWER	1534,5	690	1654	250	Ø 2" G	Ø 1" ½ G	470
ALU 450 PRO POWER	1534,5	690	2103	300	Flange PN10 DN65	Ø 1" ½ G	565
ALU 525 PRO POWER	1534,5	690	2103	300	Flange PN10 DN65	Ø 1" ½ G	640
ALU 600 PRO POWER	1534.5	690	2298	300	Flange PN10 DN65	Ø 1" ½ G	735

The heat-generator is composed by a cascade of independent 75-kW thermal modules, managed in cascade sequence, ensuring the best adaptation to the heat request and maximum reliability and peace of mind.

Continuous pre-mix burner in stainless steel ensures efficient, noiseless and high-efficiency combustion with low polluting emissions allowing to achieve Class 5 NOx (according to UNI EN 297). It is provided with thermoregulation suitable for the control of a modulating pump for the primary ring circuit.

The RIELLOtech regulation can control up to 8 boilers in a cascade application.

- Type of Appliance B23, B23P
- Low head losses
- Wide range of accessories for an easy, fast, flexible and complete installation
- Compact dimensions, reduced weight and the basement make the transport and the placement easier
- Maximum operating pressure: 6 bar.

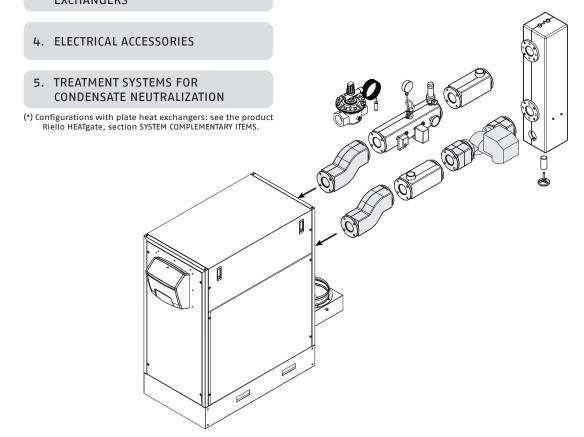
TECHNICAL DATA

RIELLO

Description		Power - kW			Efficiency - %		Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	
ALU 115 PRO POWER	112.1	119.6	15 - 115	97.5	104.0	108.0	20021781
ALU 150 PRO POWER	146.3	156.0	15 - 150	97.5	104.0	108.0	20020843
ALU 225 PRO POWER	219.4	234.0	15 - 225	97.8	104.0	108.0	20020844
ALU 300 PRO POWER	293.0	312.0	15 - 300	98.0	104.0	108.0	20020845
ALU 349 PRO POWER	340.3	363.0	15 - 349	98.3	104.0	108.0	20029287
ALU 375 PRO POWER	365.6	390.0	15 - 375	98.3	104.0	108.0	20020846
ALU 450 PRO POWER	438.8	468.0	15 - 450	98.3	104.0	108.0	20020847
ALU 525 PRO POWER	511.9	546.0	15 - 525	98.3	104.0	108.0	20020848
ALU 600 PRO POWER	585.0	624.0	15 - 600	98.3	104.0	108.0	20020849

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION

- 1. BOILER CONFIGURATION
- MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
- HYDRAULIC SEPARATORS/PLATE HEAT **EXCHANGERS***



RIELLO INTERNATIONAL PRODUCT CATALOGUE

1. BOILER CONFIGURATION

Choice of the type of installation:

- A Stand alone
- B Cascade

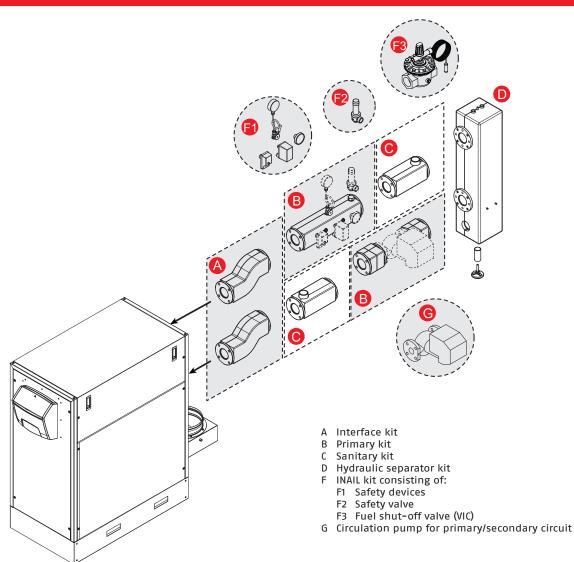
A - STAND ALONE HEAT INPUT

Description	ALU 115 PRO	ALU 150 PRO	ALU 225 PRO	ALU 300 PRO	ALU 349 PRO	ALU 375 PRO	ALU 450 PRO	ALU 525 PRO	ALU 600 PRO
	POWER								
Rated heat input kW	115.0	150.0	225.0	300.0	349.0	375.0	450.0	525.0	600.0

B - CASCADE SYSTEM HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER
Boiler heat output kW	115	150	225	300	349	375	450	525	600
No. boilers				T	OTAL POWE	2			
2	230	300	450	600	698	750	900	1050	1200
3	345	450	675	900	1047	1125	1350	1575	1800
4	460	600	900	1200	1396	1500	1800	2100	2400
5	575	750	1125	1500	1745	1875	2250	2625	3000
6	690	900	1350	1800	2094	2250	2700	3150	3600
7	805	1050	1575	2100	2443	2625	3150	3675	4200
8	920	1200	1800	2400	2792	3000	3600	4200	4800

PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT



AUGUST 2024 EDITION

2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Interface primary circuit kit up to 375 kW	(1)	20021753
Interface primary circuit kit up to 600 kW	(1)	20021752
Primary kit up to 300 kW	(2)	20021751
Primary kit up to 600 kW	(2)	20021750
Safety kit	(3)	4030091
Safety valve up to 460 kW (5.4 bar ØG.¾" F)	(4)	20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)	(4)	20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(5)(9)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(5)(10)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(5)(11)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(12)	20061640
Domestic water connection kit	(6)	20022521
Primary circuit pump MAGNA3 40–120 F	(8)	20183650
Primary circuit pump MAGNA3 65–120 F	(8)	20183652

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

- Accessory type A. Accessory type B.
- Accessory type F1. To be completed with safety valve (F2) and VIC fuel shut-off valve (F3).
- (3) (4)
- Accessory type F2.

 Accessory type F3. Tripping temperature at 97 °C Capillary length 5 m. (5)
- (6) (8) (9) (10) Accessory type C.
- Accessory type G.
- Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.

 Recommended up to a maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
- Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
- Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
Hydraulic separator (up to 300 kW)	(1)	20009385
Hydraulic separator (up to 600 kW)	(1)	20009431
Plate heat exchangers	(2)	*

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

- Accessory type D.

 Plate heat exchangers for physical separation of primary and secondary circuits. To be used as an alternative to the hydraulic separator.
- Configurations with plate heat exchangers: see the product Riello HEATgate, section SYSTEM COMPLEMENTARY ITEMS.

MATCHING TABLE FOR PRIMARY CIRCUIT MANAGMENT (A-B-C)

Description	Interface primary Primary kit Primary circuit pumps circuit kit						DHW connection kit
		OPTIONAL					
	Interface primary circuit kit up to 375 kW	Interface primary circuit kit up to 600 kW	Primary kit up to 300 kW	Primary kit up to 600 kW	Primary circuit pump MAGNA3 40-120 F	Primary circuit pump MAGNA3 65-120 F	Domestic water connection kit
	20021753	20021752	20021751	20021750	20183650	20183652	20022521
ALU 115 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 150 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 300 PRO POWER	1x ●		1x ●		1x ●		1x ●
ALU 349 PRO POWER	1x ●			1x ●		1x ●	1x •
ALU 375 PRO POWER	1x ●			1x ●		1x ●	1x ●
ALU 450 PRO POWER		1x ●		1x ●		1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●		1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●		1x ●	1x ●

MATCHING TABLE OF SAFETY DEVICES (F)

Description	Safety kit	Safety	valves		Fuel shut	t-off valve		
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.3/4" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) – ØG.1"	Fuel shut-off valve kit (VIC) – ØG.1" 1/2	Fuel shut-off valve kit (VIC) – ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"	
	4030091	20023104	20023106	20009486	20009482	20009483	20061640	
ALU 115 PRO POWER	1x ●	1x ●		1x ●				
ALU 150 PRO POWER	1x ●	1x ●			1x ●			
ALU 225 PRO POWER	1x ●	1x ●			1x ●			
ALU 300 PRO POWER	1x ●	1x ●				1x ●		
ALU 349 PRO POWER	1x ●	1x ●				1x ●		
ALU 375 PRO POWER	1x ●	1x ●				1x ●		
ALU 450 PRO POWER	1x ●	1x ●				1x ●		
ALU 525 PRO POWER	1x ●		1x ●			1x ●		
ALU 600 PRO POWER	1x ●	2x ●					1x ●	

TERMINAL UNITS

MATCHING TABLE OF HYDRAULIC SEPARATOR (D)

Description	Hydraulic	separators
	Hydraulic separator (up to 300 kW)	Hydraulic separator (up to 600 kW) kW
	20009385	20009431
ALU 115 PRO POWER	1x ●	
ALU 150 PRO POWER	1x ●	
ALU 225 PRO POWER	1x ●	
ALU 300 PRO POWER	1x ●	
ALU 349 PRO POWER		1x ●
ALU 375 PRO POWER		1x ●
ALU 450 PRO POWER		1x ●
ALU 525 PRO POWER		1x ●
ALU 600 PRO POWER		1x ●

4. ELECTRICAL ACCESSORIES

Description	Notes	Code
RIELLOtech CLIMA COMFORT		4031069
CLIMA COMFORT		20010903
CLIMA DISPLAY		20010906
RC3 remote control kit		20155028
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	(1)	20021674
NTC solar collector immersion probe (10kΩ)	(2)	4031913
NTC immersion probe (10kΩ) – 5 metres	(3)	20010068
NTC 0-ring probe ($10k\Omega$)	(4)	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	(5)	20010103

- Includes wiring and communication kit.
 Solar system probe.
 Primary probe (separator).
 Mixed zone probe.
 Storage tank probe.

- (1) (2) (3) (4) (5)

5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
N2 neutralisation kit (up to 450 kW)		4031810
HN2 neutralisation kit (up to 280 kW)		4031811
N3 neutraliser kit (from 450 to 1500 kW)		4031812
HN3 neutraliser kit (from 280 to 750 kW)	(1)	4031813

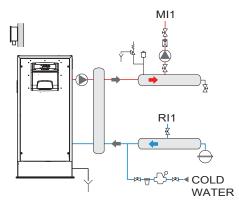
Equipped with extraction pumps.

POSSIBLE SYSTEM COMPOSITIONS

DIRECT SYSTEM BASE CONFIGURATION 1

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)

- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.

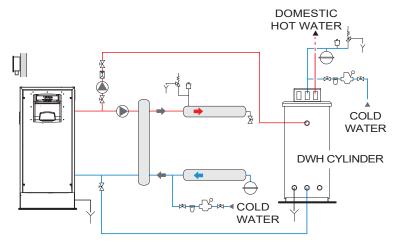


TERMINAL UNITS

DHW BASE CONFIGURATION WITH HEATER UPSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code	
ALU PRO POWER 115-600	1	(1)	
Interface primary circuit kit (375–600 kW)	1	(2)	
Primary kit (300-600 kW)	1	(2)	
Safety kit	1	4030091	
Safety valve (460-580 kW)	1	(2)	
Fuel shut-off valve kit (1"-3")	1	(2)	
Domestic water connection kit	1	20022521	
Sanitary kit (300-600 kW)	1	(2)	
Primary circuit pump	1	(2)	
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103	

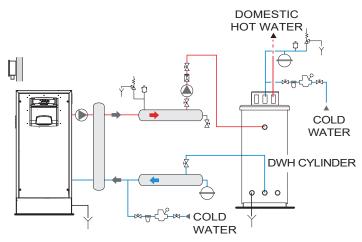
- Refer to table "A STAND ALONE HEAT INPUT".
- Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER DOWNSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code	
ALU PRO POWER 115-600	1	(1)	
Interface primary circuit kit (375–600 kW)	1	(2)	
Primary kit (300-600 kW)	1	(2)	
Safety kit	1	4030091	
Safety valve (460-580 kW)	1	(2)	
Fuel shut-off valve kit (1"-3")	1	(2)	
Sanitary kit (300-600 kW)	1	(2)	
Primary circuit pump	1	(2)	
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103	

- Refer to table "A STAND ALONE HEAT INPUT".
- Refer to the matching tables on the previous pages.

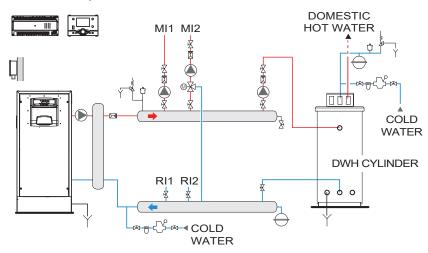


CONTROL PANEL SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

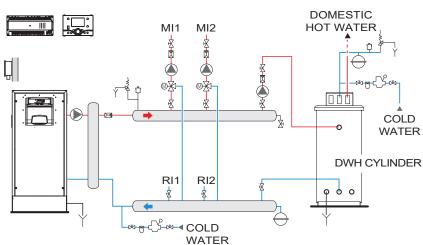
- (1) (2) (*) Refer to table "A - STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages. To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	2	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

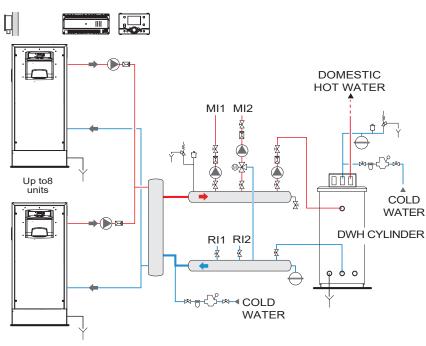
- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages. To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115-600	1-8	(1)
Interface primary circuit kit (375–600 kW)	1-8	(2)
Primary kit (300-600 kW)	1-8	(2)
Safety kit	1-8	4030091
Safety valve (460-580 kW)	1-8	(2)
Fuel shut-off valve kit (1"-3")	1-8	(2)
Primary circuit pump	1-8	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1-8	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

- Refer to table "B CASCADE SYSTEM HEAT INPUT". Refer to the matching tables on the previous pages. To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



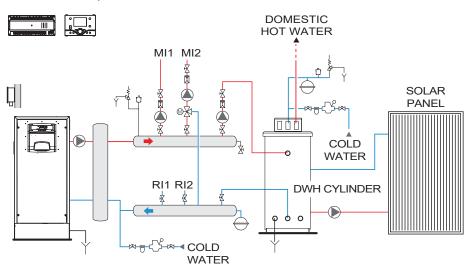
CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code	
ALU PRO POWER 115-600	1	(1)	
Interface primary circuit kit (375–600 kW)	1	(2)	
Primary kit (300-600 kW)	1	(2)	
Safety kit	1	4030091	
Safety valve (460-580 kW)	1	(2)	
Fuel shut-off valve kit (1"-3")	1	(2)	
Primary circuit pump	1	(2)	
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674	
CLIMA COMFORT	1	20010903	
CLIMA DISPLAY (*)	1	20010906	
NTC 0-ring probe (10kΩ)	1	20168680	
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103	
NTC immersion probe (10kΩ) – 5 metres	1	20010068	
NTC solar collector immersion probe ($10k\Omega$)	1	4031913	

Refer to table "A - STAND ALONE HEAT INPUT".

Refer to the matching tables on the previous pages.

To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.

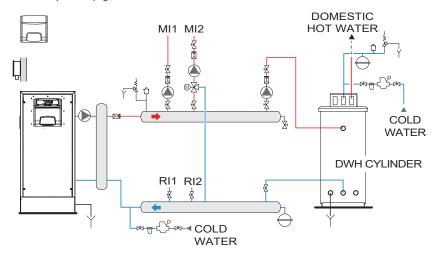


WALL MOUNTED SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.

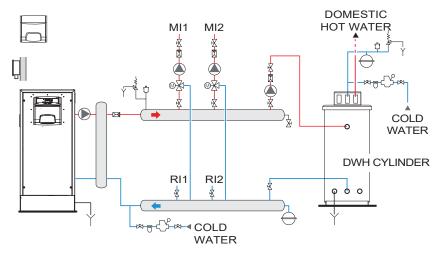


TERMINAL UNITS

CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	2	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068

Refer to table "A - STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.

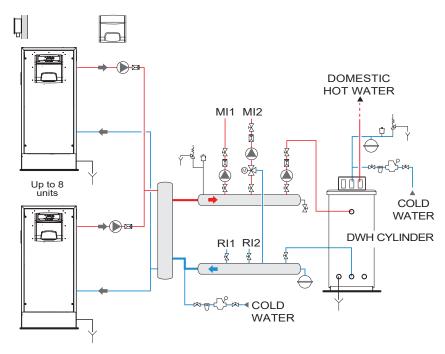


CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115-600	1-8	(1)
Interface primary circuit kit (375-600 kW)	1-8	(2)
Primary kit (300-600 kW)	1-8	(2)
Safety kit	1-8	4030091
Safety valve (460-580 kW)	1-8	(2)
Fuel shut-off valve kit (1"-3")	1-8	(2)
Primary circuit pump	1-8	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1-8	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

1) Refer to table "B - CASCADE SYSTEM HEAT INPUT".

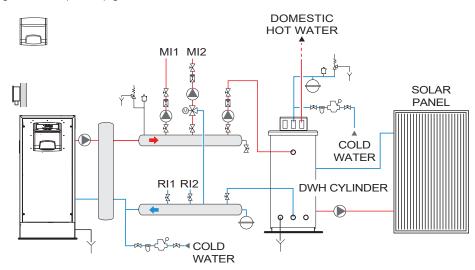
²⁾ Refer to the matching tables on the previous pages.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115-600	1	(1)
Interface primary circuit kit (375–600 kW)	1	(2)
Primary kit (300-600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460-580 kW)	1	(2)
Fuel shut-off valve kit (1"-3")	1	(2)
Primary circuit pump	1	(2)
Interface kit for bus comunication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10kΩ) – 5 metres	1	20010068
NTC solar collector immersion probe (10kΩ)	1	4031913

- Refer to table "A STAND ALONE HEAT INPUT". Refer to the matching tables on the previous pages.



FLOOR-STANDING BOILERS



RIELLO

GAS



TAU UNIT

TAU UNIT 35 (3,4-34,1 KW)** TAU UNIT 50 (4,9-48,7 KW)**
TAU UNIT 70 (6,7-68,6 KW)** TAU UNIT 100 (9,7-97,5 KW)** TAU UNIT 115 (11,2-111,7 KW)**
TAU UNIT 140 (13,9-138,9 KW)** TAU UNIT 190 (18,6-185,8 KW)**

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TAU N

TAU 115 N (78,4-112,4 kW)***
TAU 150 N (108,2-146,6 kW)*** TAU 210 N (1U82,2-146,6 kW)***
TAU 270 N (207,2-205,2 kW)***
TAU 350 N (266,4-342,7 kW)***
TAU 450 N (345,0-441,9 kW)***
TAU 450 N (443,3-589,2 kW)*** TAU 750 N (590,8-735,5 kW)***
TAU 800 N (590,8-785,6 kW)*** TAU 1000 N (787,4-982,0 kW)*** TAU 1150 N (984,3-1129,3 kW)*** TAU 1250 N (1131,8-1227,5 kW)*** TAU 1450 N (1229,7-1423,9 kW)*** TAU 1750 N (1424,0-1718,5 kW)*** TAU 2100 N (1721,2-2062,2 kW)***
TAU 2600 N (2065,3-2553,2 kW)*** TAU 3000 N (2056,8-2946,0 kW)***

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ONLY HEATING

TAU N PREMIX

TAU 115 N PREMIX (78,4-112,4 kW)*** TAU 150 N PREMIX (108,2-146,6 kW)***
TAU 210 N PREMIX (147,5-205,2 kW)*** TAU 270 N PREMIX (207,2-264,3 kW)***
TAU 270 N PREMIX LPG (207,2-264,3 kW)*** TAU 350 N PREMIX (266,4-342,7 kW)*** TAU 350 N PREMIX (266,4-342,7 kW)***
TAU 450 N PREMIX (345,0-441,9 kW)***
TAU 600 N PREMIX (443,3-589,2 kW)***
TAU 800 N PREMIX (590,8-785,6 kW)***
TAU 1000 N PREMIX (787,4-982,0 kW)*** TAU 1150 N PREMIX (984,3-1129,3 kW)***
TAU 1250 N PREMIX (1131,8-1227,5 kW)*** TAU 1450 N PREMIX (1229,7-1423,9 kW)***
TAU 1750 N PREMIX (1424,0-1718,5 kW)***
TAU 2100 N PREMIX (1721,2-2062,2 kW)*** TAU 2600 N PREMIX (2065,3-2553,2 kW)***
TAU 3000 N PREMIX (2056,8-2946,0 kW)***

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TAU N OIL

TAU 115 N OIL (80.0-112.2 kW)*** TAU 150 N OIL (108,2-146,4 kW)***
TAU 210 N OIL (147,5-205,2 kW)*** TAU 270 N OIL (207,3 -264,3 kW)*** TAU 350 N OIL (266,5-343,7 kW)***
TAU 450 N OIL (344,7-441,9 kW)*** TAU 600 N OIL (442,9-589,2 kW)***

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TAU N OIL PRO

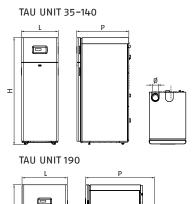
TAU 100 N OIL PRO (80,0-96,6 kW)***
TAU 115 N OIL PRO (80,0-112,2 kW)*** TAU 150 N OIL PRO (80,0-112,2 kW)***
TAU 150 N OIL PRO (108,2-146,4 kW)***
TAU 270 N OIL PRO (147,5-205,2 kW)***
TAU 270 N OIL PRO (207,3 -264,3 kW)***
TAU 350 N OIL PRO (266,5-343,7 kW)***
TAU 450 N OIL PRO (344,7-441,9 kW)*** TAU 600 N OIL PRO (442,9-589,2 kW)***
TAU 800 N OIL PRO (590,2-785,6 kW)*** TAU 1000 N OIL PRO (786,6-982,0 kW)***

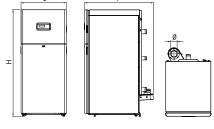
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- Min/max useful power 80/60 °C
- Max useful power 80/60 °C (approved power band)

TERMINAL UNITS

Floor standing gas condensing boilers





Description	H mm	L mm	P mm	ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245
TAU UNIT 140	1885	800	973	110	400
TAIL LINIT 190	1880	800	1250	160	450

Tau Unit



- In conformity with Regulation (EU) 2016/426
- Gas condensing boilers with a high water content titanium stabilised stainless steel body (AISI 316 "Ti" + AISI 444) and a low pollutant emission (Class 6 according to UNI EN 15502) modulating premix burner

The high water content body has a vertical smoke pipe, and has two return lines to provide the best possible operation in condensing mode. The water stratifies at a high temperature at the top of the body, while the cold water accumulates at the bottom where the condensation occurs.

The boiler board, which has an easy-to-use interface, allows you to optimise the combustion, manage a remote storage cylinder for the production of domestic hot water and the supply temperature in climatic mode. The basic electronics includes include climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.

With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones.

The optimal combustion management and the high modulation ratio of 1:10 (for models 35-115), provide a high performance and low polluting emissions (NOx in Class 6 according to UNI EN 15502). All models include the external probe. The range can operate with both methane gas and LPG (with the relative accessory).

- High quality and precision finishings
- 1:10 modulation ratio (up to model 115)
- Easy to maintain because all the internal components are fully accessible
- Smaller overall dimensions
- Maximum operating pressure: 5 bar.

TECHNICAL DATA

Description		Power - kV	I		Efficiency - %	5	Energy efficiency	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)	class	
TAU UNIT 35	34.0	37.0	3.5-34.8	97.7	106.3	107.7	A	20145133
TAU UNIT 50	48.5	54.5	4.9-49.0	97.1	109.2	108.9	A	20144105
TAU UNIT 70	68.0	76.5	6.9-69.9	97.3	109.4	108.5	А	20144106
TAU UNIT 100	97.5	106.5	10.0-100.0	97.5	109.2	108.6	-	20144107
TAU UNIT 115	112.0	125.4	11.5-115.0	97.4	109.0	108.8	-	20144108
TAU UNIT 140	136.8	152.3	14.0-140.0	97.8	108.6	108.8	-	20145135
TAU UNIT 190	185.8	205.2	38.0-190.0	97.8	108.0	108.4	-	20145136

ACCESSORIES

Description	Notes	Code
SAFETY ACCESSORIES	,	
Safety devices kit	(1)	20180519
Pressure gauge and safety valve set 4,5 bar	(2)	20181867
Pressure gauge and safety valve set 4 bar	(3)	20181010
Reduction fitting 2" - 1" ½	(4)	20182680
Reduction fitting 2"½ - 1"½	(5)	20154992
Fuel shut-off valve kit (VIC) - ØG.1"	(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(7)	20009482
DN15 flowmeter		20149998
DN20 flowmeter		20149996
DN25 flowmeter		20146343
DN32 flowmeter		20146345
HYDRAULIC ACCESSORIES		
Expansion vessel (only for TAU UNIT 35)		20154816
Circulation pump (only for TAU UNIT 35)		20154812
Condensate neutralizer HN2 (up to 280 kW)	(8)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450-1500 kW)		4031812
Condensate neutralizer HN3 (280-750 kW)	(8)(D)	4031813
LPG TRANSFORMATION KIT		
LPG transformation kit (TAU UNIT 35)		20145150
LPG transformation kit (TAU UNIT 50)		20144699
LPG transformation kit (TAU UNIT 70)		20144700
LPG transformation kit (TAU UNIT 100)		20144703
LPG transformation kit (TAU UNIT 115)		20144704
LPG transformation kit (TAU UNIT 140)		20206822
LPG transformation kit (TAU UNIT 190)		20194063
CASCADE CONFIGURATION, SECONDARY CIRCUIT AND ELECTRONIC ACCESSORIES		
External probe		20132778
Electronic kit for managing additional direct or mixed zone (max 16)	(9)	20130811
Immersion probe	(10)(11)	1220599
SEALED ROOM TRANSFORMATION KIT (TYPE C)		
Type C conversion kit (TAU UNIT 35-50)	(12)	20144759
Type C conversion kit (TAU UNIT 70)	(12)	20144760
Type C conversion kit (TAU UNIT 100-115)	(12)	20144761
Type C conversion kit (TAU UNIT 140)	(12)	20206220
Type C conversion kit (TAU UNIT 190)		20145154
FLUE DISCHARGE SYSTEM		
Conversion kit for back flue discharge (TAU UNIT 35)	(13)	20160064
Conversion kit for back flue discharge (TAU UNIT 50-70)	(13)	20147234
Conversion kit for back flue discharge (TAU UNIT 100-115)	(13)	20147235

Description	Notes	Code
PRIMARY CIRCUIT PUMPS FOR PLATE HEAT EXCHANGERS		
Primary circuit pump UPM3 FLEX AS 15-70 130 H6	(14)	20147597
Primary circuit pump UPML 32–105/180	(14)	20125034
Primary circuit pump UPM GEO 25-85/130	(14)	20147604
Primary circuit pump STRATOS PARA 30/1–12	(14)	20125040
Primary circuit pump MAGNA3 32–120 F	(14)	20183636
Primary circuit pump MAGNA3 40-120 F	(14)	20183650

- Availability of the material at our warehouse: 30 working days from the date of the order's validation.

 Includes stub pipe with safety kit, excluding: safety valve set + pressure gauge, fuel shut-off valves and flow meter set (to be ordered separately).
- To be provided for Tau Unit 50-70 models To be provided for Tau Unit 100-190 models
- (1) (2) (3) (4) (5) To be provided in case of safety kit installation for Tau Unit 100 and 115 models. To be provided in case of safety kit installation for Tau Unit 140 and 190 models.
- Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar. Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar. Equipped with extraction pumps.
- (6) (7) (8) (9) (10) For ambient temperature adjustment, use Riello thermostats and timed thermostats. Used for secondary and heater management.

- Used as primary probe for cascade system management.

 Accessories for split discharge, for concentric discharge, to complete the installation, for the flue gas system, refer to page 349.

 For each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service. For the flue gas system, refer to page 349.
- (14) To be paired with HEATgate plate heat exchangers, depending on the operating conditions (primary/secondary ΔT°).

NOTE: Tau Unit 140 and 190 do not require the accessory kit for LPG conversion.

COMBINATIONS SAFETY KIT ACCESSORIES

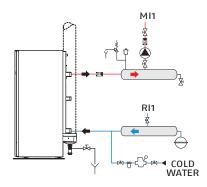
Description Safety basic kit	Safety basic kit	Hydrau	lic fitting		alve and e gauge		nut-off Ive						Flow	meter					
		(1)		ৃ															
			7	-					ΔT =	20 °C			ΔT =	15 °C			ΔT =	10 °C	
	20180519 Safety devices kit	20182680 Reduction fitting 2" - 1" 1/3	20154992 Reduction fitting 2"1/2 - 1"1/2	20181867 4,5 bar pressure gauge and safety valve set	Pressure gauge and safety valve set 4 bar	Gas shutting valve (VIC) – Ø6.1"	20009482 Fuel shut-off valve kit (VIC) - ØG.1" 1/2	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter	20149998 DN15 flowmeter	20149996 DN20 flowmeter	20146343 DN25 flowmeter	20146345 DN32 flowmeter
	201	201	201	201	201	200	200	201	201	201	201	201	201	201	201	201	201	201	201
TAU UNIT 50	•			•		•		•					•				•		
TAU UNIT 70	•			•		•			•				•					•	
TAU UNIT 100	•	•			•	•			•					•					•
TAU UNIT 115	•	•			•	•				•				•					•
TAU UNIT 140	•		•		•		•			•				•					•
TAU UNIT 190	•		•		•		•				•				•				•

POSSIBLE SYSTEM COMPOSITIONS

STANDARD CONFIGURATION 1 DIRECT SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50–190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Flowmeter (only for TAU UNIT 50–190)	1	(2)

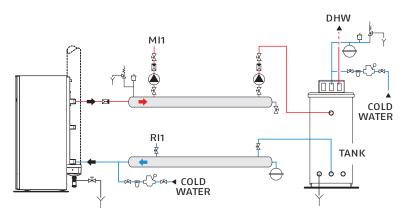
- (1) (2) Refer to the "TECHNICAL DATA" table.
 Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Immersion probe	1	1220599
Safety devices kit (only for TAU UNIT 50–190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Flowmeter (only for TAU UNIT 50–190)	1	(2)

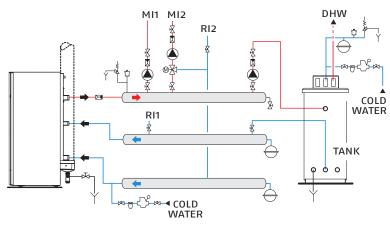
- Refer to the "TECHNICAL DATA" table.
- Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50–190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for TAU UNIT 50–190)	1	(2)

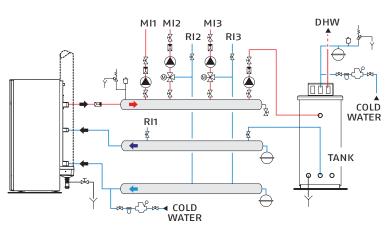
Refer to the "TECHNICAL DATA" table.
Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 2 MIXED + DHW SYSTEMS

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50-190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	2	20130811
Flowmeter (only for TAU UNIT 50-190)	1	(2)

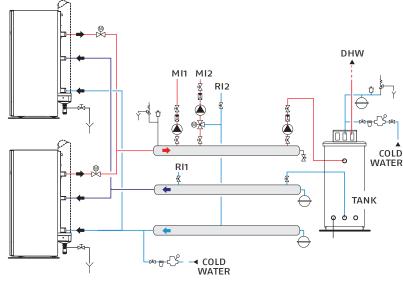
Refer to the "TECHNICAL DATA" table.
Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



CASCADE CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM (maximum 16 generators)

Description	Quantity	Code
TAU UNIT 35-190	2	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50–190)	2	20180519
Hydraulic fitting	2	(2)
Safety valve and pressure gauge	2	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Immersion probe	2	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (1 for each boiler; only for TAU UNIT 50-190)	2	(2)

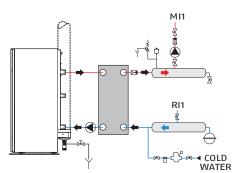
Refer to the "TECHNICAL DATA" table.
Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.



STANDARD CONFIGURATION 1 DIRECT SYSTEM WITH PLATE HEAT EXCHANGER

Description	Quantity	Code
TAU UNIT 35-190	1	(1)
External probe	1	20132778
Safety devices kit (only for TAU UNIT 50–190)	1	20180519
Hydraulic fitting	1	(2)
Safety valve and pressure gauge	1	(2)
Fuel shut-off valve (only for TAU UNIT 50-190)	1	20009486
Pump	1	(3)
Plate heat exchanger	1	(3)
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for TAU UNIT 50–190)	1	(2)

Refer to the "TECHNICAL DATA" table.
Refer to the "COMBINATIONS SAFETY KIT ACCESSORIES" table in the "ACCESSORIES" section.
Refer to the "COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS" table in the "ACCESSORIES" section.



ERP

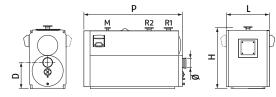
burners

RIELLO INTERNATIONAL PRODUCT CATALOGUE

Condensing three flue gas passes stainless steel jet burners boilers

Tau N

TAU 115-1250 N



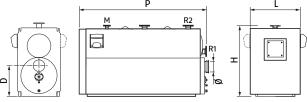


W.

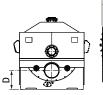
• In conformity with Directive 2009/125/EC

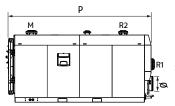
• Condensing boilers made of stainless steel

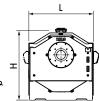
with three flue gas passes, with a high water content, suitable for the operation with gas jet











Description	Н		Р	D	Ø	М	R1	R2	Net weight
Description	mm	mm	mm	mm	mm	DN	DN	DN	kg
TAU 115 N	1315	740	1455	505	160	65	65	50	545
TAU 150 N	1315	740	1455	505	200	65	65	50	545
TAU 210 N	1315	740	1455	505	200	65	65	50	580
TAU 270 N	1450	850	1630	545	250	65	65	50	737
TAU 350 N	1450	850	1830	545	250	80	80	65	823
TAU 450 N	1630	900	2035	645	300	100	100	80	1185
TAU 600 N	1630	900	2235	645	300	100	100	80	1370
TAU 750 N	1910	1060	2560	680	350	125	125	80	2010
TAU 800 N	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N	1910	1060	2810	680	350	125	125	80	2245
TAU 1150 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1250 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1450 N	2180	1225	3175	805	450	150	150	100	3280
TAU 1750 N	1945	1750	3620	521	400	200	200	150	4265
TAU 2100 N	1945	1750	4020	521	400	200	200	150	4750
TAU 2600 N	2128	1850	4425	552	450	200	200	150	5550
TAU 3000 N	2170	1950	4640	600	450	200	200	150	6750

- Delivery. Low temperature return system. High temperature return system.

TAU N is a condensing floor standing boiler, with high water content for heating room installation; suitable for heating and domestic hot water production in combination with a proper water tank .

Three-pass boiler, in which all the components in contact with the flue gas smokes are in titanium-stabilized stainless steel, designed on the principle of heat stratification: the combustion chamber at the top and the tube bundle at the bottom (smooth pipes with removable turbulators), allow to optimize heat exchange and energy efficiency, so as to obtain high efficiency, thanks to the condensation technique. The generator has been designed with a structure capable of containing thermal expansions; particular attention has been paid to the thermal insulation of the boiler body, the painted steel panels and the door, with the use of high density glass wool mats.

Some models are also available in a modular version. The models up to 1450 kW are developed with a vertical structure with overlapping planes, to facilitate handling and make easier the introduction into the heating room.

The new 1750-3000 models are developed on a "square" structure with a single planking, to maintain the high water content and, at the same time, guarantee maximum efficiency.

To make easier the inspections, maintenance and cleaning of the internal parts, the front door and the closing of the smoke chamber can be fully opened.

- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with RIELLOtech control panels
- Built-in drain condensate
- Maximum operating pressure 6 bar.

TECHNICAL DATA

Description		Power - kW			Efficiency - %		Back-pressure	Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input max		Useful Pn (40°/30°) %	Useful 30% Pn (30°C)	in combustion chamber mbar		
TAU 115 N	112.1	123.1	115	97.5	107	108	2.2		20120144
TAU 150 N	146.3	159.7	150	97.5	106.5	108.5	2.0		4031860.0
TAU 210 N	205.2	223.6	210	97.7	106.5	109.3	2.7		4031861.0
TAU 270 N	265.1	290.2	270	98.2	107.5	109.2	3.2		4031862.0
TAU 350 N	344.1	375.2	349	98.3	107.5	108.5	4.6		4031863.0
TAU 450 N	442.4	481.5	450	98.3	107	108.5	5.0		4031864.0
TAU 600 N	589.8	642	600	98.3	107	108.5	5.5		4031865.0
TAU 750 N	735.5	804	749	98.2	107	108.7	5.6	(D)(T)	20217443
TAU 800 N	786.4	860	800	98.3	107	108.5	5.7	(D)(T)	4031866.0
TAU 1000 N	983	1070	1000	98.3	107	108.5	6.3	(D)(T)	4031867.0
TAU 1150 N	1129.3	1230.5	1150	98.3	107	108.5	6.6	(D)(T)	20136528
TAU 1250 N	1229.7	1337.5	1250	98.3	107	108.5	6.8	(D)(T)	4031868.0
TAU 1450 N	1425.6	1551.5	1450	98.3	107	108.5	7.4	(D)(T)	4031869.0
TAU 1750 N	1718.5	1881.2	1750	98.3	107.5	108.7	8.4	(D)(T)	20162157
TAU 2100 N	2062.2	2258.7	2100	98.3	107.5	108.7	9.6	(D)(T)	20162158
TAU 2600 N	2553.2	2796.5	2600	98.3	107.5	108.7	11.5	(D)(T)	20162159
TAU 3000 N	2946.0	3226.8	3000	98.3	107.5	108.7	11.6	(D)(T)	20162160

⁽D) Availability of the material at our warehouse: 30-40 working days from the date of the order's validation.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
HN2 neutralisation kit up to 280 kW	(1)	4031811
HN3 neutraliser kit from 280 to 750 kW	(1)(D)	4031813
MECHANICAL ACCESSORIES		
Burner flange		4031196
Burner flange		20178775
Burner flange		20163867

⁽¹⁾ Equipped with extraction pumps.

CONTROL PANELS

Description	Installation	Code
RIELLOtech CLIMA COMFORT	Vertical	4031069

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

⁽T) Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.

Maximum operating pressure 6 bar.

⁽D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

TERMINAL UNITS

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion									bur										ner nge	Con	
	chamber						Υ	ellov	v fla	me (Stan	dar	d)							.Bc	pu.	
	(mbar)				Two :	stag	е						Мо	dula [.]	ting							
												М	ech	anica	al ca	m						
										-					1			1				
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3784702	3785102	3785302	3785502	20068351	20068361	3788410	3785813	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4031069	20013035
TAU 450 N	5.0	•																			•	
1AU 450 N	5.0									•											•	•
TAU 600 N	5.5		•																		•	
IAU BUU N	5.5										•										•	•
TAU 750 N	5.6		•																		•	
140 750 N	5.6										•										•	•
TAU 800 N	5.7			•																	•	
	5.7											•									•	•
TAU 1000 N	6.3			•																	•	
IAU IUUU N	6.3											•									•	•
TAU 1150 N	6.6				•														•		•	
א טכוו טאו	6.6												•						•		•	•
TAU 1250 N	6.8				•														•		•	
1AU 1250 N	6.8												•						•		•	•
TAU 1450 N	7.4								•											•	•	
140 1450 N	7.4														•					•	•	•
Tall 4750 N	8.4								•												•	
TAU 1750 N	8.4													•							•	•
TAIL 2400 N	9.6							•													•	
TAU 2100 N	9.6															•					•	•
TALL DOOR N	11.5					•															•	
TAU 2600 N	11.5																•				•	•
	11.6						•														•	
TAU 3000 N	11.6																	•			•	•

Description	Back-pressure in combustion												D:		as b			١٥ ,													Bı acc	ırne				urne ang		Con par	
	chamber (mbar)	H											Blu		ame odu		ow N	10x)											_										
		_			1ech	nan	ical	ca	m								1116	E	lect	ron	ic c	am		_															
											-										_		trol			-	ntro ert		-										
																															e 3,0 kW	e 5,5 kW	e 7,5 kW	drive 11 kW				mfort	Ė
		BS3/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 68/M BLU TC	RS 55/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 68/E BLU	RS 310/F B111 FS1	RS 410/F B111 FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TC	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	-	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3897606	3788006		3910610	3897406	20038484	Н			3897632	\exists		\top	7	3897432	+	Τ.	+	+	١	20166002	20179072	\vdash		\dashv	20166004	\neg	_		20163071	20163074	20163093	4031196	Н	20163867	4031069	20013035
TAU 115 N	2.2	•	П		Г				П						T	T	T	T	T	T	T	Т		П	П											П		•	•
TAU 150 N	2.0	•																																				•	•
TAU 210 N	2.7				•									1		1		1	1																			•	•
	2.7	Н			-		-		Н				4	+	•	+	+	+	+	+	+	-		Н	Н		_									Н		•	•
TAU 270 N	3.2				•						_	-		+	•	+	+	+	+		+							+		_								•	•
	4.6	Н			Н	•						\exists	\exists	\forall	†	†	\top	t	t	t	t	H		Н				\exists								Н		•	•
TAU 350 N	4.6	П			Т		Т		П					\top	1	•	Ť	T	T	T	T	Т		П	П											П		•	•
	5.0							•																											•			•	•
TAU 450 N	5.0																•																		•			•	•
TAU 600 N	5.5						•																												•			•	•
1A0 000 N	5.5																•																		•			•	•
TAU 750 N	5.6						•								_																				•			•	•
	5.6														4	'	•		_	_	_														•			•	•
	5.7		•											_	4	4				_															•			•	•
TAU 800 N	5.7											•		_	_	_	+			-															•			•	•
	5.7												-	-	+	+	+	+	-	•	-	-								•					•			•	•
	5.7	Н	•		H				Н	-	-	-	-	+	+	+	+	+	+	+	+	-		H	•	_	-	-	_	•	•	-	Н		•	Н	Н	•	•
	6.3	Н	•		H				Н	-	-	•	-	+	+	+	+	+	+	+	+	-		Н			-	\dashv		-	-			_	•	Н		•	•
TAU 1000 N	6.3													+	+	+	+	+	+	•									-	•					_			•	•
	6.3												+	+	+	+	+	+	+	Ť	+			Н	•					•	•							_	•
	6.6			•	H							\dashv	+	+	+	+	+	t	+	+	t	H			Ť			\dashv		Ť	Ť		Н			•		-	•
	6.6	П			Н				Н				•	\forall	†	†	Ť	t	t	$^{+}$	t	\vdash		Н	П			\exists								•		•	•
TAU 1150 N	6.6	П			Т				П						Ť	T		T	T	T	•	Т		П						•						•		•	•
	6.6														T	T	T	T	T	T	T	Т		П	П	•				•		•				•		•	•
	6.8			•																																•		•	•
TAU 1250 N	6.8												•						I																	•		•	•
IAU 1230 N	6.8	Ш	Ĺ																	L	•			Ш						•						•		•	•
	6.8	Ш							Ш															Ш		•				•		•				•		•	•
	7.4	Ш		•					Ш					4	4	4	4	1	1	_	_			Ш	Ц											•		•	•
TAU 1450 N	7.4	Ш											•	_	4	\perp	+	1	+	+	-			Ш												•		•	•
	7.4	Ш					_		Ш				_	_	+	+	-	+	+	+	•	-	_	Н	Ш		_			•		_				•		-	•
	7.4		L		-					_	_	-	_	_	+	+	+	+	+	+	+	-		Н		•		_		•	-	•				•		-	•
	8.4	Н	H		H				•	-	-	-	-	•	+	+	+	+	+	+	+	-		H			-	-		_	-	-				Н		-	•
TAU 1750 N	8.4	Н							Н				+	-	+	+	+	+	+	+	+	•		Н	\vdash		-			•						Н	•	-	•
	8.4	H							H				\dashv	+	+	+	+	+	+	+	+	Ť		Н	H		•			•			•			H	•	-	•
	9.6	Н							Н	•			+		+	+	+	+	+	+				Н												Н	•	•	•
	9.6	Н							Н				\dashv	+	+	+	+	•	+	+				Н			+			_						Н	•	•	•
TAU 2100 N	9.6	Н							Н				\dashv	+	+	+	+	+	+	+			•	Н	H		+			•						Н	•	•	•
	9.6	Н							Н				\dashv	+	\dagger	\dagger	+	\dagger	\dagger	+	\dagger			Н	H		+	•		•			•			Н	•	\vdash	•
	11.5								Н		•				\dagger	\dagger	\dagger			\top				Н												П		•	•
TAU 2600 N	11.5	Н							Н				_		+	+	+	+	•		+	1		\vdash	\vdash		-									Н		•	•

Description	Back-pressure													G	ias I	burı	ner																urne				ırne	- 1	Con	
	in combustion chamber												Blu	ıe f	lam	e (L	ow	N0x	()													acc	esso	ory		TIE	ang	9	pan	eı
	(mbar)													Μ	1od	ulat	ing																							
				Μ	1ech	nani	ical	car	n										Elec	ctro	nic	ca	m																	
											-										(0 ₂ C	ont	rol		0		ntr ert		٠										
		3762350 BS3/M	3897606 RS 120/M BLU TC	3788006 RS 160/M BLU TC	3910510 RS 25/M BLU TC	3910610 RS 35/M BLU TC	3897406 RS 68/M BLU TC	20038484 RS 55/M BLU TC	8	RS 310/M BLU	0	3897632 RS 120/E BLU	\exists		æ	\dashv	8	\dashv	2 1	RS 410/E BLI	8	RS 160/E 02			\neg				20166004 RS 310/EV 02 BLU TC	20174935 RS 410/EV 02 BLU TC	20045187 Oxygen Control kit	20163064 Variable speed drive 3,0 kW			m			_	4031069 Riellotech Clima Comfort	Tid notice modulation bit
	11.5	, M	ñ	3	w.	W.	ñ	7(ñ	7	5	ñ	M	ñ	w.	w.	ñ	5 5	7	5	5	50	5	7(5	7	5	5(7	7	5(5(5	5	5	Ŧ	7	5	÷ t	
AU 2600 N										-	4	-	_	-	4	+	+	+	+	+	-	4	4	_	•		_	_			-	_	\rightarrow	\vdash	\dashv	_	4	+	-	_
	11.5														_															•	•		Ш	\Box	•		_		•	•
	11.6										•																												•	•
AU 3000 N	11.6																		-	•																			•	•
40 JUUU N	11.6																								•						•								•	•
	11.6																													•	•				•				•	•

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion											bur												rner nge		trol rels
	chamber (mbar)								Υ	ellov	v fla	me (Stan	dard	1)									0 -		
	(IIIDai)	_			1		stage	9									dula									
						_	_					_			М	echa	nica	al ca	m							
																									na Comfort	ation kit
		RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS5D	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3789110	3784702	3785102	3785302	3785502	3762016	20068351	20068361	3788410	3785813	3788710	3788810	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4031069	20013035
TAU 270 N	3.2						•																	_	•	
	3.2											•												_	•	•
TAU 350 N	4.6	•																						_	•	
	4.6												•											_	•	•
TAU 450 N	5.0		•																					_	•	_
	5.0													•										-	•	•
TAU 600 N	5.5			•											•									H	•	•
	5.6			•											_									_	•	Ť
TAU 750 N	5.6			Ť											•									_	•	•
	5.7				•										_										•	
TAU 800 N	5.7				_											•									•	•
	6.3				•																			_	•	
TAU 1000 N	6.3															•									•	•
	6.6					•																	•	\vdash	•	
TAU 1150 N	6.6																•						•		•	•
	6.8					•																	•	\Box	•	
TAU 1250 N	6.8																•						•		•	•
	7.4										•													•	•	
TAU 1450 N	7.4																		•					•	•	•
	8.4										•														•	
TAU 1750 N	8.4																	•							•	•
TALL 2400 N	9.6									•															•	
TAU 2100 N	9.6																			•					•	•
TAIL 2600 N	11.5							•																	•	
TAU 2600 N	11.5																				•				•	•
TAIL 2000 N	11.6								•																•	
TAU 3000 N	11.6																					•			•	•

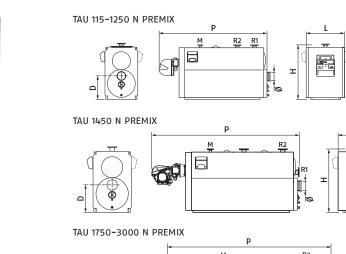
Description	Back-pressure in combustion															bur															ä	Bu	rne				Bur flar	ner 1ge		Con pan	
	chamber (mbar)												Bli			ne (I	_		(x)											\dashv											
	(-		N	/ec	han	ica	l ca	m					- 1	100	ula	ting	3	Fle	ctro	onio									\dashv											
											-										_		ont	rol		0	₂ co Inv			_											
																														U		ve 3,0 kW	ve 5,5 kW	ve 7,5 kW	ve 11 kW					omfort	ı kit
		BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 25/E BLU	RS 35/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TC	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		3762350	3910510	3910610	20038484	3897406	3897606	3788006	3899711	20068219	20068270	3910710	3910810	20038491	3897432	3897632	3788032	3899810	20068261	20068294	20165996	20164535	20166368	20166002	20179072	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178757	20178775	20163867	4031069	20013035
TAU 115 N	2.2	•																																						•	•
TAU 150 N	2.0	•			L		L		L		L										Ц		Ц							_	_		_[_	_					•	•
TAU 210 N	2.7		•																							_	_	_	_		4	_	4	_						•	•
	2.7											•							_							4	_	4	_	_	4	4	4	4					_	•	•
TAU 270 N	3.2		•																								_		_	4	_	4								•	•
	3.2			_					H			•							_							4		4	_	4	4	4	4	4	_				-	•	•
TAU 350 N	4.6		H	•	-	-	-	-	H		H								-						-	_	-	_	-	4	-	4	4	_	-				-	•	•
	4.6				•			-	H				•				_							_		-	-	-	+	-	-	+	4	_		•				•	•
TAU 450 N	5.0				-			-	H					•					\dashv	-				-	+	+	\dashv	+	\dashv	4	\dashv	+	+	-	-	•			+	•	•
	5.5				H	•	H	H	H					_					-	-				-		+	+	+	+	4	+	+	+	-	-	•			+	•	•
TAU 600 N	5.5				\vdash	+			H						•				\dashv						+		\dashv		\dashv	+	\dashv	\dashv	+	-		•			+	•	•
	5.6					•									_												+		\dashv	-	+	+	7			•			+	•	•
TAU 750 N	5.6					H			\vdash						•				+						+	1	\dashv	+	\dashv	\dashv	+	\dashv				•				•	•
	5.7						•																				+		+	7	7	\dashv	7			•				•	•
	5.7															•											\forall		\forall		\exists	7	7			•				•	•
TAU 800 N	5.7																				•										•	\dashv				•				•	•
	5.7																									•					•	•	7			•				•	•
	6.3						•																													•				•	•
TAU 1000 N	6.3															•																				•				•	•
TAU 1000 N	6.3																				•										•					•				•	•
	6.3																									•					•	•				•				•	•
	6.6							•																														•		•	•
TAU 1150 N	6.6																•																					•		•	•
IAU IIJU N	6.6																					•									•							•		•	•
	6.6																										•				•		•					•		•	•
	6.8		L		L		L	•	L																		_		_		4	4						•		•	•
TAU 1250 N	6.8																•								_	_	4	4	_			_	4	_	_			•		•	•
	6.8						L		L		L											•			4	4	_	4	_		•	4	_	4	_			•	4	•	•
	6.8				H	-	L	-	L	-	L								4					_	-	4	•	4	4		•	+	•	4	_	_		•	+	•	•
	7.4				-		-	•	H										_						4	4	-	4	_	4	_	4	4	4	_	_		•	4	•	•
TAU 1450 N	7.4				-		-		H								•		-			•			+	\dashv	+	\dashv	_	-	•	\dashv	+	4	_	_		•	+	•	•
	7.4				-		-		\vdash										+			_			+	\dashv	•	\dashv	\dashv	+	•	+	•	+	-	_		•	+	•	•
	8.4				-	+	-		•		H								+						+	\dashv	+	\dashv	\dashv	-	+	+	-	+	-	_			+	•	•
	8.4								Ė									•	+		\vdash		\vdash		+	1	+	+	\dashv	\dashv	\dashv	+	+	-	-				+	•	•
TAU 1750 N	8.4																		+				•		\dashv	+	\dashv	+	\dashv	+	•	\dashv	\dashv	7	\dashv				+	•	•
	8.4								H										\dashv							\dashv	+	•	\dashv	+	•	\dashv	\dashv	•				H	+	•	•
	9.6									•									+						+	+	\dashv	+	\dashv	+		\dashv	+	+	\dashv				•	•	•
	9.6									Ė		Н							•		Н		Н		+	+	\dashv	+	\dashv	+	+	+	\dashv	7	\dashv				•	•	•
TAU 2100 N	9.6																		+					•		+	+	+	\dashv		•	+	7	7	-				•	•	•
	9.6				\vdash	+													-		Н				+		\dashv		•	\dashv	•	\dashv	\dashv	•	\dashv	_		H	•	•	•

Description	Back-pressure	П												_	as	bui	nei																ırne				Bur			Con	
	in combustion chamber	Г											Bli	ue f	lan	ne (Low	NO	x)												•	acc	ess	ory		1	flan	ıge		pan	iels
	(mbar)													١	1od	ula	ting	3																							
				1	Med	chai	nica	al ca	m										Ele	ctro	onic									_											
											-										(0 ₂ c	ont	rol		_		ntro erte													
		3762350 BS3/M	3910510 RS 25/M BLU TC	3910610 RS 35/M BLU TC	77.	RS 68/M BIII	$^{+}$	t	T	9 RS	20068270 RS 410/M BLU FS1	3910710 RS 25/E BLU	3910810 RS 35/E BLU	20038491 RS 55/E BLU	3897432 RS 68/E BLU	3897632 RS 120/E BLU	3788032 RS 160/E BLU	3899810 RS 200/E BLU		.	\dashv	RS	20166368 RS 200/E 02 BLU TL	20166002 RS 310/E 02 BLU TC	20179072 RS 410/E 02 BLU TC	\pm		+		\dashv	Oxygen Control kit	20163064 Variable speed drive 3,0 kW		20163074 Variable speed drive 7,5 kW	20163093 Variable speed drive 11 kW		20178757 Burner flange		20163867 Burner flange	4031069 Riellotech Clima Comfort	20013035 3-point modulation kit
	11.5	m	m	m	1 6	4 (1	1 (1	1 (1	1 (11)	17	171	(1)	m	(4	m	(1)	m	(11)	7	7	7	(4	7	(4	•	[7]	(1	(4)	7	_	•	7		(4	(4	7	7	74	- 1	•	•
TAU 2600 N	11.5			r	t	$^{+}$	$^{+}$	t	t											7	\forall					+	\top	+	\forall	•	•				•		\Box			•	•
	11.6			T	T	†	\top	T			•															\top	1		1	T									\Box	•	•
	11.6				T															•							\uparrow		7							П	П		П	•	•
TAU 3000 N	11.6						T																		•						•						П		П	•	•
	11.6			Т	T	T	Т		T										\neg		\neg					T	T	T	T	•	•	\neg			•	П	П		П	•	•

Condensing three flue gas passes stainless steel jet burners boilers

Tau N Premix

Tau N combined with RX premixed gas burners







- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content
- Low emissions RX premix gas burner
- RIELLOtech Clima Comfort electronic control panel

Description	H mm	L mm	P mm	D mm	ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N PREMIX	1315	740	1960	505	160	65	65	50	582
TAU 150 N PREMIX	1315	740	1960	505	200	65	65	50	582
TAU 210 N PREMIX	1315	740	1960	505	200	65	65	50	617
TAU 270 N PREMIX	1450	850	2140	545	250	65	65	50	774
TAU 270 N PREMIX LPG	1450	850	2140	545	250	65	65	50	774
TAU 350 N PREMIX	1450	850	2380	545	250	80	80	65	865
TAU 450 N PREMIX	1630	900	2590	645	300	100	100	80	1233
TAU 600 N PREMIX	1630	900	2760	645	300	100	100	80	1426
TAU 800 N PREMIX	1910	1060	3080	680	350	125	125	80	2107
TAU 1000 N PREMIX	1910	1060	3330	680	350	125	125	80	2342
TAU 1150 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1250 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1450 N PREMIX	2180	1225	4060	805	450	150	150	100	3430
TAU 1750 N PREMIX	1945	1750	4800	521	400	200	200	150	4466
TAU 2100 N PREMIX	1945	1750	5200	521	400	200	200	150	4961
TAU 2600 N PREMIX	2128	1850	5610	552	450	200	200	150	5776
TAU 3000 N PREMIX	2170	1950	5820	600	450	200	200	150	6976

- Delivery. Low temperature return system.
- High temperature return system.

INTERNATIONAL PRODUCT CATALOGUE

TAU N Premix is equipped with modulating burners with total premixing combustion, which guarantee very low emissions in atmosphere and a wide turndown ratio.

The burner is equipped with gas valves with proportional opening with pneumatic control; the gas is dosed in operation of the air introduced to the combustion head which is cylindrical radiating type. The mixing of air with gas takes place inside the burner fan (the fan is variable speed) allowing correct operation too in the presence of low gas supply pressures.

The premixed flame is characterized by a compact geometry, and a low noise level, which translates into a limited sound emission to the chimney, with obvious comfort acoustic advantages.

The modulation of the flame allows to adapt the delivery temperature according to the external temperature in order to optimize the efficiency. The flame ignition is guaranteed by an intermittent pilot flame device.

- Low polluting emissions
- Easy maintenance for total accessibility to internal components avoiding to disassemble the burner
- Equipped with the RIELLOtech Clima Comfort electronic control panel to manage cascades of boilers, complex solar systems, integration of multiple types of heat generators, two mixed zones, one direct and the production of domestic hot water
- Equipped with burner plate for premix burners
- Maximum working pressure: 6 bar.

TECHNICAL DATA

Description		Power - kW			Efficiency - %)	Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input max	Useful Pn (80°/60°)	Useful Pn (40°/30°)	Useful 30% Pn (30 °C)		
TAU 115 N PREMIX	112.1	123.1	115	97.5	107.0	108.0	(B)(D)	20120146
TAU 150 N PREMIX	146.3	159.7	150	97.5	106.5	108.5	(B)(D)	20031981
TAU 210 N PREMIX	205.2	223.6	210	97.7	106.5	109.3	(B)(D)	20031987
TAU 270 N PREMIX	265.1	290.2	270	98.2	107.5	109.2	(C)(D)	20105079
TAU 270 N PREMIX LPG	265.1	290.2	270	98.2	107.5	109.2	(A)(D)	20105081
TAU 350 N PREMIX	344.1	375.2	349	98.3	107.5	108.5	(B)(D)	20105082
TAU 450 N PREMIX	442.4	481.5	450	98.3	107.0	108.5	(B)(D)	20105083
TAU 600 N PREMIX	589.8	642.0	600	98.3	107.0	108.5	(B)(D)	20105085
TAU 800 N PREMIX	786.4	860.0	800	98.3	107.0	108.5	(B)(D)(T)	20105086
TAU 1000 N PREMIX	983.0	1070.0	1000	98.3	107.0	108.5	(B)(D)(T)	20105089
TAU 1150 N PREMIX	1129.3	1230.5	1150	98.3	107.0	108.5	(B)(D)(T)	20166024
TAU 1250 N PREMIX	1229.7	1337.5	1250	98.3	107.0	108.5	(B)(D)(T)	20166025
TAU 1450 N PREMIX	1425.6	1551.5	1450	98.3	107.0	108.5	(B)(D)(T)	20166026
TAU 1750 N PREMIX	1718.5	1881.2	1750	98.3	107.5	108.7	(B)(D)(T)	20166039
TAU 2100 N PREMIX	2062.2	2258.7	2100	98.3	107.5	108.7	(B)(D)(T)	20166027
TAU 2600 N PREMIX	2553.2	2796.5	2600	98.3	107.5	108.7	(B)(D)(T)	20166030
TAU 3000 N PREMIX	2946.0	3226.8	3000	98.3	107.5	108.7	(B)(D)(T)	20166041

- (A) (B) (C) (D) LPG.
- Natural gas-LPG.
- Availability of the material at our warehouse: 25 working days from the date of the order's validation.
- Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.

Maximum operating pressure 6 bar.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

ACCESSORIES

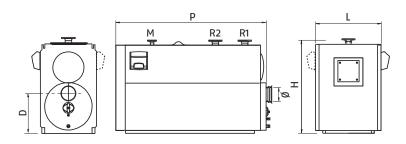
Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit (up to 450 kW)		4031810
N3 neutraliser kit (450-1500 kW)		4031812
HN2 neutralisation kit (up to 280 kW)	(1)	4031811
HN3 neutraliser kit (280-750 kW)	(1)(D)	4031813

- Equipped with extraction pumps.
- Availability of the material at our warehouse: 30 working days from the date of the order's validation.

TERMINAL UNITS

Condensing three flue gas passes Low-sulphur oil and gas

Tau N Oil





- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with high water content, suitable for the operation with oil and gas jet
- Suitable for the operation with oil for heating according to UNI 6579 (sulphur content < 50 ppm)

Description	H mm	L mm	P mm	D mm	M Ø-DN	R1 low temp. Ø-DN	R2 high temp. Ø-DN	ø mm	Net weight kg
TAU 115 N OIL	1315	740	1455	505	65	65	50	160	530
TAU 150 N OIL	1315	740	1455	505	65	65	50	200	560
TAU 210 N OIL	1315	740	1455	505	65	65	50	200	580
TAU 270 N OIL	1450	850	1630	545	65	65	50	250	737
TAU 350 N OIL	1450	850	1830	545	80	80	65	250	823
TAU 450 N OIL	1630	900	2035	645	300	100	100	80	1185
TAU 600 N OIL	1630	900	2235	645	300	100	100	80	1370

The boiler has been designed to operate with heating standard oil, with sulphur content < 50 ppm, thanks to the construction made of stainless steel AISI 316Ti. The boiler is based on the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensing take place, remains a large quantity of cold water in order to ensure the condensation. The generator structure has been studied to contain thermal expansion.

Particular care was given to ensure thermal insulation of the boiler body, casing and door by using high-density mineral wool and ceramic fibre. The control panel should be ordered separately.

- Low polluting emissions
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with Riellotech control panels
- Built-in condensate drain
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description		Power - kW			Efficiency - 🤊	6	Back pressure in	Notes	Code
	Output useful 80°/60° max	Output useful 50°/30° max	Furnace input max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (30 °C)	the chamber mbar		
TAU 115 N OIL	112.2	119.6	115	97.6	104.0	104.8	2.2	(D)	20124406
TAU 150 N OIL	146.4	156.0	150	97.6	104.0	104.7	2.0	(D)	20124407
TAU 210 N OIL	205.2	218.2	210	97.7	103.9	104.6	2.7	(1)(D)	20124408
TAU 270 N OIL	264.3	280.3	270	97.9	103.8	104.4	3.2	(1)(D)	20124409
TAU 350 N OIL	343.7	361.9	350	98.2	103.4	104.1	4.6	(1)(D)	20124410
TAU 450 N OIL	441.9	465.3	450	98.2	103.4	104.1	5.0	(1)(D)	20124418
TAU 600 N OIL	589.2	620.4	600	98.2	103.4	104.1	5.5	(1)(D)	20124419

⁽¹⁾ The product could benefit from tax deductions for energy redevelopment if combined with a Modulating type burner (see recommended combinations table). (D) Availability of the material at our warehouse: 30 working days from the order receipt date.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Neutralizer kit DNO 2 (up to 300 kW)		20182661
Neutralizer kit DNO 3 (up to 1000 kW)		20182663
Neutralizer kit HNO 1.6 (up to 200 kW)	(1)	20182664
Neutralizer kit HNO 3 (up to 1000 kW)	(1)(2)(D)	20182665
MECHANICAL ACCESSORIES		
Burner flange		4031196

- Equipped with extraction pumps. Contact pre-sales service.

- On request.

 Availability of the material at our warehouse: 30 working days from the order receipt date.

CONTROL PANELS

Description	Installation	Boiler model	Code	
RIELLOtech CLIMA COMFORT	Vertical	ALL MODELS	4031069	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RECOMMENDED COMBINATIONS WITH BURNERS

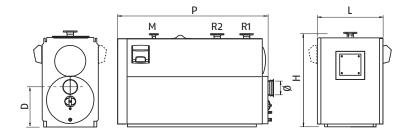
For combination with GAS BURNER use correspondence tables provided for similar models of the TAU N range on page 274.

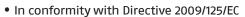
Description	Back-pressure in		Light oil burner				Dual fuel burner			Burner flange	flange	Control panels	
	combustion chamber (mbar)	Low NOx				Star	ndard	Low N0x	Эx				
	, , ,		Two	stage		Modulating		Two stag	e				,
			Mechanical cam										
		BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RLS 50	RLS 70	RLS 68/M MX TL	Burnerflange		Clima Comfort	3-point modulation kit
		20015696	20027479	20027481	20027567	20169338	20147805	20147798	20147785	4031196	4031395	4031069	20013035
TAU 115 N OIL	2.2	•										•	
TAU 150 N OIL	2.0	•										•	
TAU 210 N OIL	2.7		•									•	
TAU 270 N OIL	3.2			•								•	
TAU 350 N OIL	4.6				•							•	
TAU 450 N OIL	5.0				•							•	
						•				•		•	•
IAO 450 N OIL	5.0						•				•	•	
										•		•	
						•						•	•
TAU 600 N OIL	5.5							•				•	
									•			•	

Condensing three flue gas passes oil and gas steel boilers

Tau N Oil Pro







- Condensing boilers made of stainless steel with three flue gas passes, with high water content, suitable for the operation with oil and gas jet burners
- Suitable for the operation with oil for heating according to UNI 6579 (sulphur content < 1000 ppm)

Description	H mm	L mm	P mm	D mm	M Ø-DN	R1 low temp	R2 high temp.	ø mm	Net weight kg
					<i>p</i> 5	Ø-DN	Ø-DN		6
TAU 100 N OIL PRO	1315	740	1455	505	65	65	50	160	530
TAU 115 N OIL PRO	1315	740	1455	505	65	65	50	160	530
TAU 150 N OIL PRO	1315	740	1455	505	65	65	50	200	560
TAU 210 N OIL PRO	1315	740	1455	505	65	65	50	200	580
TAU 270 N OIL PRO	1450	850	1630	545	65	65	50	250	737
TAU 350 N OIL PRO	1450	850	1830	545	80	80	65	250	823
TAU 450 N OIL PRO	1630	900	2035	645	300	100	100	80	1185
TAU 600 N OIL PRO	1630	900	2235	645	300	100	100	80	1370
TAU 800 N OIL PRO	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N OIL PRO	1910	1060	2810	680	350	125	125	80	2245

The boiler has been designed to operate with heating standard oil, with sulphur content < 1000 ppm, thanks to the construction made of stainless steel AISI 316Ti and AISI 904 L. The boiler is based on the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensing take place, remains a large quantity of cold water in order to ensure the condensation.

The generator structure has been studied to contain thermal expansion.

Particular care was given to ensure thermal insulation of the boiler body, casing and door by using high-density mineral wool and ceramic fibre. The control panel should be ordered separately.

- Low polluting emissions
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with Riellotech control panels
- Built-in condensate drain
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

RIELLO

Description		Power - kW			Efficiency - %	6	Back pressure in	Notes	Code
	Output useful 80°/60° max	Output useful 40°/30° max	Furnace input max	Useful Pn (80°/60°)	Useful Pn (40°/30°)	Useful 30% Pn (30 °C)	the chamber mbar		
TAU 100 N OIL PRO	96.6	102.9	99	97.6	104.7	104.7	1.6	(D)	20217365
TAU 115 N OIL PRO	112.2	120.6	115	97.6	104.9	104.8	2.2	(D)	20124420
TAU 150 N OIL PRO	146.4	157.4	150	97.6	104.8	104.7	2.0	(D)	20124421
TAU 210 N OIL PRO	205.2	220.1	210	97.7	104.7	104.6	2.7	(1)(D)	20124423
TAU 270 N OIL PRO	264.3	282.7	270	97.9	104.5	104.4	3.2	(1)(D)	20124424
TAU 350 N OIL PRO	343.7	365.8	350	98.2	104.5	104.1	4.6	(1)(D)	20124425
TAU 450 N OIL PRO	441.9	470.3	450	98.2	104.5	104.1	5.0	(1)(D)	20180060
TAU 600 N OIL PRO	589.2	627.0	600	98.2	104.5	104.1	5.5	(1)(D)	20180061
TAU 800 N OIL PRO	785.6	836.0	800	98.2	104.5	104.1	5.7	(1)(D)	20164743
TAU 1000 N OIL PRO	982.0	1045.0	1000	98.2	104.5	104.1	6.3	(1)(D)	20164757

The product could benefit from tax deductions for energy redevelopment if combined with a Modulating type burner (see recommended combinations table). Availability of the material at our warehouse: 30 working days from the order receipt date.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Neutralizer kit DNO 2 (up to 300 kW)		20182661
Neutralizer kit DNO 3 (up to 1000 kW)		20182663
Neutralizer kit HNO 1.6 (up to 200 kW)	(1)	20182664
Neutralizer kit HNO 3 (up to 1000 kW)	(1)(2)(D)	20182665
MECHANICAL ACCESSORIES		
Burner flange		4031196

- (1) (2) (3) (D)
- Equipped with extraction pumps.
 Contact pre-sales service.
 On request.
 Availability of the material at our warehouse: 30 working days from the order receipt date.

CONTROL PANELS

Description	Installation	Boiler model	Code
RIELLOtech CLIMA COMFORT	Vertical	ALL MODELS	4031069

RECOMMENDED COMBINATIONS WITH BURNERS

For combination with GAS BURNER use correspondence tables provided for similar models of the TAU N range on page 274.

Description	Back-pressure in combustion chamber		L	ight oi	l burne	er			l fuel rner	Burner flange	Control panels	Panel board
	(mbar)			Blue	e flame	e (Low	NOx)					accessory
			Two	stage		Modul	lating	Two s	stage			
				Μ	lechan	ical ca	m					
		BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 68/M MX TL	RLS 120/M MX TL	Burner flange	Clima Comfort (V)	3-point modulation kit
		20015696	20027479	20027481	20027567	20169338	20169330	20147785	20147788	4031196	4031069	20013035
TAU 100 N OIL PRO	1.6	•								•		
TAU 115 N OIL PRO	2.2	•								•		
TAU 150 N OIL PRO	2.0	•								•		
TAU 210 N OIL PRO	2.7		•							•		
TAU 270 N OIL PRO	3.2			•						•		
TAU 350 N OIL PRO	4.6				•					•		
TAU 450 N OIL PRO	5.0				•					•		
TAU 450 N OIL PRO	5.0					•			•	•	•	•
TAU 450 N OIL PRO	5.0						•		•	•		
TAU 600 N OIL PRO	5.5					•				•	•	•
TAU 600 N OIL PRO	5.5						•			•		
TAU 800 N OIL PRO	5.7						•		•	•	•	•
TAU 800 N OIL PRO	5.7							•	•	•		
TAU 1000 N OIL PRO	6.3							•	•	•		

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

JET BURNER BOILERS GAS/OIL

STEEL

STEEL JET BURNER BOILERS GAS/OIL



THREE FLUE GAS PASSES



RTS 3S

RTS 90 3S (85,1 kW)* RTS 115 3S (108,3 kW)* RTS 166 3S (157,4 kW)* RTS 217 3S (207,5 kW)* RTS 255 3S (244,0 kW)* RTS 349 3S (334,7 kW)*

RTS 448 3S (427,8 kW) RTS 511 3S (488,0 kW) RTS 639 3S (610,2 kW) RTS 750 3S (718,3 kW) RTS 850 3S (811,8 kW) RTS 1160 3S (1107,8 kW) RTS 1450 3S (1384,8 kW)

RTS 1750 3S (1671 kW) RTS 2100 3S (2005 kW) RTS 2600 3S (2483 kW) RTS 3000 3S (2865 kW)

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RTQ 3S

RTQ 91 3S (87,1 kW) RTQ 115 3S (109,7 kW) RTQ 166 3S (158,7 kW) RTQ 217 3S (206,8 kW) RTQ 255 3S (243,3 kW) RTQ 318 3S (303,4 kW) RTO 349 3S (332,0 kW)

RTO 448 3S (427,4 kW) RTQ 511 3S (487,5 kW) RTQ 575 3S (548,6 kW) RTQ 639 3S (609,6 kW) RTQ 750 3S (713,8 kW) RTO 766 3S (730,8 kW) RTQ 896 3S (854,8 kW)



RTQ 1100 3S (1049,4 kW) RTQ 1300 3S (1240,2 kW) RTQ 1600 3S (1526,4 kW) RTQ 2100 3S (2003,4 kW) RTQ 2400 3S (2289,6 kW) RTQ 3000 3S (2860,0 kW) RTQ 3500 3S (3339 kW) RTQ 4000 3S (3816 kW)

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RTS 2S

RTS 115 2S (115 kW) RTS 150 2S (150 kW) RTS 200 2S (200 kW) RTS 247 2S (247 kW) RTS 319 2S (319 kW)



RTS 410 2S (410 kW) RTS 526 2S (526 kW) RTS 736 2S (736 kW) RTS 850 2S (850 kW) RTS 1012 2S (1012 kW) RTS 1200 2S (1200 kW) RTS 1355 2S (1355 kW) RTS 1500 2S (1500 kW) RTS 1850 2S (1850 kW) RTS 2200 2S (2200 kW) RTS 2600 25 (2781 kW) RTS 3200 2S (3422 kW) RTS 3700 2S (3880 kW)

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RTQ 2S

RTQ 50 2S (50,0 kW) RTQ 64 2S (64,0 kW) RTO 82 2S (82,0 kW) RTQ 105 2S (105,0 kW) RTQ 154 2S (154,4 kW) RTQ 203 2S (202,7 kW) RTQ 235 2S (235,3 kW) RTQ 297 2S (297,0 kW) RTQ 323 2S (322,9 kW) RTQ 357 2S (356,7 kW)

RTQ 418 2S (418,0 kW) RTQ 467 2S (467,0 kW) RTQ 537 2S (537,1 kW) RTO 597 2S (596.8 kW) RTQ 715 2S (715,4 kW) RTO 837 25 (836 9 kW) RTQ 920 2S (920 kW) RTQ 1020 2S (1020 kW) RTQ 1250 2S (1250 kW) RTQ 1500 2S (1500 kW)

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RTO 1700 2S (1700 kW) RTQ 2020 2S (2020 kW) RTQ 2320 2S (2320 kW) RTQ 2620 2S (2620kW) RTQ 2920 2S (2920 kW) RTQ 3200 2S (3200 kW) RTQ 3500 2S (3500 kW) RTQ 4000 2S (4000 kW) RTQ 4500 2S (4500 kW) RTQ 5000 2S (5000 kW)



RTG

RTG 4000 (4680 kW) RTG 4300 (5030 kW) RTG 5000 (5830 kW) RTG 6000 (7020 kW) RTG 7500 (8760 kW) RTG 9000 (10560 kW)

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RTQ TK



RTO 4000 TK RTQ 10000 TK RTQ 4500 TK RTO 11000 TK RTO 5000 TK RTQ 12000 TK RTQ 6000 TK RTO 14000 TK RTO 7000 TK RTQ 16000 TK RTQ 8000 TK RTO 18000 TK RTQ 9000 TK RTQ 20000 TK

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RTO T



	COUNTRE	
RTQ 3000 T		RTQ 9000 T
RTQ 3500 T		RTQ 10000
RTQ 4000 T		RTQ 11000 T
RTQ 5000 T		RTQ 12000
RTQ 6000 T		RTQ 14000
RTQ 7000 T		RTQ 16000
RTQ 8000 T		RTQ 18000

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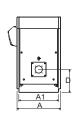
Products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil. NOTE: products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

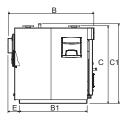
Three flue gas passes steel jet burner boilers

RTS 3S

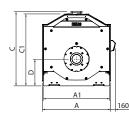
Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013). Gas products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of EU Regulation N. 813/2013.

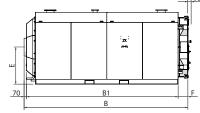
RTS 90-1750 3S





RTS 2100-3000 3S





RIELLIO



LIGHT OIL

- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	A (mm)	A1 (mm)	B (mm)	B1 (mm)	C (mm)	C1 (mm)	D (mm)	E (mm)	F (mm)	Weight (inclusive of casing)	Boiler weight	Panelling Weight
RTS 90 3S	660	580	1155	860	1205	1225	380	180	-	335	-	-
RTS 115 3S	710	640	1330	1010	1285	1305	380	190	-	420	-	-
RTS 166 3S	760	690	1500	1180	1390	1390	400	200	-	515	-	-
RTS 217 3S	760	690	1500	1180	1390	1390	400	200	-	535	-	-
RTS 255 3S	820	750	1660	1296	1524	1525	468	225	-	715	-	-
RTS 349 3S	820	750	1960	1596	1490	1525	468	225	-	840	-	-
RTS 448 3S	890	790	2085	1692	1685	1730	510	250	-	1160	-	-
RTS 511 3S	890	790	2085	1692	1685	1730	510	250	-	1160	-	-
RTS 639 3S	1000	900	2375	1965	1830	1875	560	270	-	1500	-	-
RTS 750 3S	1047	980	2657	2236	1920	1960	570	270	-	2040	-	-
RTS 850 3S	1047	980	2657	2236	1920	1960	570	270	-	2040	-	-
RTS 1160 3S	1147	1070	2954	2533	2080	2120	625	270	-	2627	-	-
RTS 1450 3S	1237	1160	3173	2754	2222	2222	650	270	-	3440	-	-
RTS 1750 3S	1340	1260	3460	3020	2322	2322	670	265	-	4530	-	-
RTS 2100 3S	1800	1750	3981	3394	1980	1872	750	1000	270	-	5125	180
RTS 2600 3S	1900	1850	4171	3831	2070	1997	750	1030	270	-	5575	212
RTS 3000 3S	1900	1850	4491	3962	2070	1997	750	1030	270	-	6015	247

Its vertical design and reduced width (narrow range) allows an easy installation even in tiny plant rooms. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses. The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance.

The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TERMINAL UNITS

TECHNICAL DATA

RIELLO

Description	Powe	r - kW	Efficie	ncy - %	Notes	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn		
RTS 90 3S	85.1	90	94.5	98.5	(1)(2)	20042418
RTS 115 3S	108.3	115	94.2	98.5	(1)(2)	20031973
RTS 166 3S	157.4	166	94.8	98.5	(1)(2)	20031974
RTS 217 3S	207.5	217	95.6	98.5	(1)(2)	20031976
RTS 255 3S	244.0	255	95.7	98.5	(1)(2)	20031977
RTS 349 3S	334.7	349	95.9	98.5	(1)(2)	20031978
RTS 448 3S	427.8	448	95.5	98.5	(3)	20031979
RTS 511 3S	488.0	511	95.5	98.5	(3)	20031980
RTS 639 3S	610.2	639	95.5	98.5	(3)	20042417
RTS 750 3S	718,3	749	95.3	98.5	(3)	20217448
RTS 850 3S	811.8	850	95.5	98.5	(3)	20044152
RTS 1160 3S	1107.8	1160	95.5	98.5	(3)	20047381
RTS 1450 3S	1384.8	1450	95.5	98.5	(3)	20047391
RTS 1750 3S	1671	1750	95.5	98.5	(3)	20204031
RTS 2100 3S	2005	2100	95.2	98.5	(3)	20204033
RTS 2600 3S	2483	2600	95.2	98.5	(3)	20204034
RTS 3000 3S	2865	3000	95.2	98.5	(3)	20204035

- Maximum operating pressure 5 bar for 90 model.

 Maximum operating pressure 6 bar for the other models.

 Minimum temperature of water return (to the boiler): 50 °C.

 (1) Gas products only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

 (2) Oil product are in conformity with ErP Directive (EU Regulation Nr. 813/2013)

 (3) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031188
Burner flange	4031196
Burner flange	4031197
Burner flange	4031198
Burner flange	20199147
Burner flange	20043900
Burner flange	20047680
Burner flange	20163867

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.

Thermostatic management with RIELLOtech PRIME.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion			_	_				_			Ga	s bı	urn		_	_				. ,					ner		Con	trol	pan	els
	chamber (mbar)	_					e (S	tan	dar	d)								me (Low	/ NC)x)					.60					
	(IIIbai)	H	Two	- st	age				Mo	cha	nic		- m	- 1	1od	ulat	ting		octr	oni		m									
		H		÷			-		ме	CHA	nic	di C	.dIII		_	_		EIE	ectro	0111	c ca		ntrol								
						_						_							С				erter			_	_				
							; TC					U TC	U TC	.U TC	LU TC	_		D :		BLU TC	BLU TL	2 BLU TC	2 BLU TC	ge	ge	lge	ıge	Prime	Riellotech Clima Comfort	burner ent kit	dulation kit
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 50/M MZ	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech	Two stage burner management kit	3-point modulation kit
		3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	20038484	3897406	3897606	3788006	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	4031197	20043900	20047680	4031196	20010820	4031069	4031067	20013035
	2.9	•							Ш						Ш			4	4	_	_					Ц		•		•	
RTS 448 3S	2.9			L		_	•		Ш	L	Ш	_	Ш	L	Ш		Ш	4	4	_	_					Щ	_	_	•		•
	2.9	L			L		L	_	Ш	_	L	•	L		Ш	_	Ш	4	4	4	_					-	•		•		•
	2.9	-		L		_	_	_	Н	_		_		L	Н	•	Н	_	4	4				_		\vdash	•		•		•
	5.4	•	_		L	_	-	_	Н	_	L	_	H	_	Н	_	Н		-	4				_	Ш	\vdash	_	•		•	_
RTS 511 3S	5.4	-		H		_	•		H	_		Ļ		_	Н	_		4	+	+	4			_	_	\vdash	_	_	•		•
	5.4	-		L		_			H	-		•		L	Н	_		+	+	-	-			_		-	•	_	•		•
	5.4	-	_			_			H			_		H	Н	•		_	+	-	_			_		\vdash	•		•		•
	5.2		•			_	-	_	Н	_	H	_		_	Н	_	Н	+	-	-				_		\vdash	_	•		•	_
RTS 639 3S	5.2	H	-	_	H	_	H	•	Н	-	H	_		-	Н	_	Н	+	+	+	-			_	H	\vdash		-	•		•
	5.2	H	H	_	H	_	-	-	Н	-	H	_	•	-	Н	_	•	+	+	+	-			•	H	\vdash	•	_	•		•
	5.2	-	•			_			H			_			Н	_	-		+	+	-			_		\vdash	-	•	•	•	Ť
	5.4		_		H	_	-	•	Н	-	H	_	Н		Н	_	Н		-	+				_	Н	\vdash	_	•	•	_	•
RTS 750 3S	5.4	-	-		-	_		-	H	-		_	•	-	Н	_	Н	+	+	+	-			_	_	\vdash	•	-	•		•
	5.4	-	-		-	_		-	H	-	-	_	_	_	H	_	•	+	+	+	-			•	_	\vdash	-	-	•		•
	6.7			•					Н			_			Н	_	_	+	+	+	+			Ť		\vdash	-	•	-	•	Ť
	6.7	-	-	Ť	H	_	-	-	•	-	H	_	Н	-	Н	_	Н	-	+	+				_	-	\vdash	-	-	•	_	•
	6.7								_					•	Н	_		\dashv	+	+	\dashv					\vdash	_	\dashv	•		•
RTS 850 3S	6.7								Н					Ť	Н	_		•	+	\dashv	\dashv					\vdash	_	\dashv	•		•
	6.7				Н	_			Н	_	Н	_	Н		Н	_	Н	-	+	•	\dashv			_	H	\dashv	+	-	•		•
	6.7		Н		Н	_			Н	-	Н	_	Н		Н	\vdash	Н	+	+	+	+	•		_	H	\dashv	+	\dashv	•		•
	3.9	+		\vdash	•				H						H		\vdash	+	+	+	\dashv				•	\dashv	\dashv	•	\dashv	•	Ė
	3.9								Н	•					Н	Н	Н	\dashv	+	\dashv	\dashv				•	\vdash	\dashv	\dashv	•		•
	3.9	\vdash							H	H				•	H	Н	Н	\dashv	+		\dashv					\forall	\dashv	\dashv	•		•
RTS 1160 3S	3.9				Н	-			Н		Н	-	Н		Н	Н	Н	•	+	+	-			-	Н	\dashv	\dashv		•		•
	3.9				Н	-			Н		Н	-	Н		Н	Н	Н		+	•	-			-	Н	\dashv	\dashv		•		•
	3.9	\vdash	Н		Н				Н		Н		Н		Н	Н	Н	\dashv	+	\dashv	\dashv	•				\forall	\dashv	\dashv	•		•
	4.6					•			П			_			П	Н		\dashv	\top		\dashv			_	Н		7	•		•	
	4.6		П	Г	П				П		•		П		П	П	П		+	\dashv						\sqcap	\exists		•		•
	4.6		Т	Г	Т				П		П		П	Т	•	П	П		7	\dashv	\neg					\sqcap	\exists		•		•
RTS 1450 3S	4.6	Т		Г					П	Г	П		П		П	Т	П	1	•		\dashv					\sqcap	\exists		•		•
	4.6			Г		Т			П			Т		Т	П	П					•			Т	П		7		•		•
	4.6								П		П		П		П	П	П	\neg	\top				•			\Box			•		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure						Gas b	urner							С	ontro	l pane	ls
	in combustion chamber	Yell	low fla	ame (s	Stand	ard)			ВІ	ue fla	me (L	ow NO)x)					
	(mbar)	Two stage						Modu	lating									
		-			М	echan	ical c	am			Е	lectro	nic ca	m				
		RS 190 TL	RS 190/M TL	RS 310/M MZ	RS 410/M MZ	RS 510/M MZ	RS 200/M BLU TL	RS 310/M BLU	RS 410/M BLU	RS 510/M BLU	RS 200/E BLU	RS 310/E BLU	RS 410/E BLU	RS 510/E BLU	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		20030087	20052616	20068351	20067141	20068027	3899711	20067964	20069841	20069845	3899810	20065783	20056927	20056930	20010820	4031069	4031067	20013035
	5.9	•													•		•	
PT0 1-1-0 00	5.9		•													•		•
RTS 1750 3S	5.9						•									•		•
	5.9										•					•		•
	9.5			•												•		•
RTS 2100 3S	9.5							•								•		•
	9.5											•				•		•
	10.8				•											•		•
RTS 2600 3S	10.8								•							•		•
	10.8												•			•		•
	12.5					•										•		•
RTS 3000 3S	12.5									•						•		•
	12.5													•		•		•

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Description	Back-pressure in combustion						Li	ght	oil I	ourr	ner							al fi urne			ner ssory	В	Burn	er f	lang	ge	Coi	ntro	l par	els
	chamber (mbar)		Yello	ow f	lam	e (S	tano	dard)			Βlι	ıe fl	ame	(Lo	w N	0x)													
	, ,	Т	wo	stag	ge	М	odu	Ilati	ng		Tw	o st	age			Мос	dula	ting												
				-		М		anio am	al			-	,		Ме	echa	nica	al ca	am										,	
		RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit				
		3474632	3475032	3475232	3475432	20166502	20166463	20166481	20166486	20015693	20015696	20027479	20027481	20027567	20169338	20169330	20147784	20147786	20147789	20082208	20099869	20043900	4031188	20199147	4031196	4031198	20010820	4031069	4031067	20013035
RTS 90 3S	1.0									•							П										•		•	
RTS 115 3S	1.4										•																•		•	
RTS 166 3S	1.8											•														•	•		•	
RTS 217 3S	2.7			Т	Т			Т				•					Г									•	•		•	
RTS 255 3S	2.9												•														•		•	
RTS 349 3S	3.6													•										•			•		•	
	2.9	•																									•		•	
	2.9					•											Т											•		•
RTS 448 3S	2.9													•									•				•		•	
	2.9														•										•			•		•
	2.9																•			•							•		•	
	5.4	•																									•		•	
	5.4	Ť			\vdash	•												_										•	-	•
RTS 511 3S	5.4														•		-								•			•		•
	5.4														-		•			•					-		•	Ť	•	Ť
	5.2		•	-	-	-	-	-		-	-	-					Ť	_		<u> </u>						-	•		•	_
	5.2		Ť		\vdash		•																				Ť	•	Ť	•
RTS 639 3S	5.2	-		-	-	-	Ť	-	-	-		-	-	-	•		-							-	•	-		•	-	•
										H					_		•			•					Ť		•	Ť	•	Ť
	5.2		•														Ť			_							•		•	_
	5.4		Ť				•																				Ť	•	-	•
RTS 750 3S	5.4						Ť								•										•			•		•
	5.4														Ť		•			•					Ė		•	Ė	•	j
	6.7			•						\vdash							Ť			_							•		•	_
	6.7	-	-	Ť	⊬	-	-	•		⊬	-	-		-			H	-	H	-	 	-		H	-	-	Ť	•	<u> </u>	•
RTS 850 3S		-	-	-	⊢	-	-	Ť	-	⊬	-	-		-		•	H	-	H	-	\vdash	-		H	•	-	H	•	-	•
	6.7	-	-	-	-	-	-	-	-	\vdash	-	-	-	-	-	-	H	•	H	•	_	-	-	-	-	-	•	-	•	Ļ
	6.7	-	-	-	•	-	-	-	-	\vdash	-	-	-	-	-	-	H	_	H	_	_	•	-	-	-	-	•	-	•	_
PTC 44.60 25	3.9				•					\vdash												•					•	_	-	_
RTS 1160 3S	3.9			\vdash	\vdash			•		\vdash		-					H	-				-		-			_	•		•
	3.9				-					-									•		•	_					•		•	_
	4.6			-	•					-		-						_	_			•					•	_	•	_
RTS 1450 3S	4.6			-	-	_		-	•			-	_	_							_	•			_			•	-	•
	4.6																		•		•						•		•	

Description	Back-pressure				Dua	l Fuel bu	rner				Burner	Contro	panels
	in combustion chamber (mbar)	Yellow flame			ВІ	ue flame	(Low NO	Ox)			flange		
	(IIIbai)				M	lodulatir	ng	-					
			Мес	hanical	cam			Electro	nic cam				
		RLS 190/M MZ	RLS 310/M MX	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 310/E MX	RLS 310/E MX	RLS 410/E MX	RLS 510/E MX		Riellotech Clima Comfort	3-point modulation kit
		20205672	20205664	20205664	20208593	20205565	20087644	20087644	20084376	20083562	20163867	4031069	20013035
	5.9	•										•	•
RTS 1750 3S	5.9		•								•	•	•
	5.9						•				•	•	•
PTC 2400 25	9.5			•								•	•
RTS 2100 3S	9.5							•				•	•
	10.8				•							•	•
RTS 2600 3S	10.8								•			•	•
PTC 2000 25	12.5					•						•	•
RTS 3000 3S	12.5									•		•	•

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion								urn								rner nge	Coi	ntro	l par	els
	chamber					/ello	w f	lam	e (St	tand	lard)				_ '''	lige				
	(mbar)			Tw	o st	age					Mod	dula	ting	g		_					
					-					М	echa	nic	al c	am		_					
					-							-		_		_					
		RS 34 MZ TC	RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		3789010	3789110	3784702	3785102	3785302	3785502	20044636	3788710	3788810	3781622	3789610	3789710	3789810	20044638	20043900	4031197	20010820	4031069	4031067	20013035
	1.8	•																•		•	П
RTS 166 3S	1.8								•										•		•
	2.7	•																•		•	
RTS 217 3S	2.7								•					T	T				•		•
	2.9	•													T			•		•	
RTS 255 3S	2.9								•					T	T				•		•
	3.6		•												T			•		•	
RTS 349 3S	3.6									•					T				•		•
	2.9			•											T			•		•	Г
RTS 448 3S	2.9										•								•		•
	5.4			•														•		•	
RTS 511 3S	5.4										•								•		•
	5.2				•										T			•		•	
RTS 639 3S	5.2											•			T				•		•
	5.4				•										T			•		•	
RTS 750 3S	5.4											•							•		•
	6.7					•									†		•	•		•	
RTS 850 3S	6.7												•		†				•		•
	3.9						•								T	•		•		•	
RTS 1160 3S	3.9													•	T	•			•		•
	4.6							•							T			•		•	
RTS 1450 3S	4.6														•	_			•		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure in combustion							Ga	s bı	ırne	er										Вι	ırne	er fl	lang	зe	Con	trol	pan	iels
	chamber						Blue	fla	me	(Lov		_																	
	(mbar)	Monostadio	_	_							Мо	dul	atir	_															
		-	-		Med	han	ical -	can	n					Ele	ctro	onic	car	m) ₂	0 00	ntrol									
							_												+lnv			_							
																			U	ي ر							omfort		ı kit
		BS3	BS3D	BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU IC	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit				
		3761316 E	3761716			-	3897406	1		Т		3897332 F			Н	3788032 F	20165996 F	20164535 F	20154943 F	20158956 F	_	0		П		0	4031069 F	4031067	20013035
	1.0	•		Ш		_	_						Ш		Ш							Ш	Ш	Ш	_	•			
RTS 90 3S	1.0		•	Ш		_	_						Ш		Ш							Ш	Ш	Ц	\perp	•	_	•	
	1.0			•		4	4	-	-													Ш	Ш	Ш	\perp	-	•		•
	1.4	•		Ш		_	_	-	-				Ш		Ш							Ш	Ш	Н	\dashv	•	_		
RTS 115 3S	1.4		•			4	+	-	+	-	H											Ш	Н	Н	_	•	_	•	
	1.4	•		•		-	-	-	-													Н	Н	Н	_	_	•		•
DTC 466 25	1.8	•	•			+	+		+													Н	Н	Н	+	•	\dashv	•	
RTS 166 3S	1.8		_	•		+	+	+	+	-	-						_				H	H	\vdash	Н	+	-	•	_	•
	2.7				•	+	+	+	+	H							_						Н	•	+	+	•		•
RTS 217 3S	2.7				_	+	+		+	•												Н	Н	•	+	+	•		•
	2.9				•																		Н	Н	\pm	+	•		•
RTS 255 3S	2.9					\top	+				•											П	П	Н	\pm	+	•		•
	3.6					•																П		П	\top	\top	•		•
RTS 349 3S	3.6										•											П	П	П	\top	\top	•		•
PTC / / O DC	2.9						•																•	П		\Box	•		•
RTS 448 3S	2.9											•										П	П	П	П	\Box	•		•
RTS 511 3S	5.4						•																•				•		•
	5.4												•										•				•		•
RTS 639 3S	5.2						•	·															•	Ш			•		•
RTS 750 3S	5.4						•	•															•	Ш	\perp		•		•
	6.7				Ц	4	_	•														Ш	Ш	Ш	\perp	_	•		•
RTS 850 3S	6.7					4	_								•								Ш	Ш	\perp	_	•		•
	6.7					4	_		-	_	L						•						Ш	Ш	4	-	•		•
	6.7			Н		4	+	+	+	-	L								•			Н	Н	Н	\perp	-	•		•
	3.9			H		+	+	•	-		-		H							_	H	Н	Н	Н	\dashv	\dashv	•		•
RTS 1160 3S	3.9			H		+	+	+	+				Н		•		•					Н	\vdash	\vdash	\dashv	\dashv	•		•
	3.9			Н	H	+	+	+	+	-			Н		Н		_		•		H	Н	Н	H	\dashv	\dashv	•		•
	4.6			H		+	+	+	•				Н		Н				•			•	\vdash	\vdash	+	\dashv	•		•
	4.6			H	H	+	+	+	Ť		\vdash	H	H		H	•					H	H	H	H	+	+	•		•
RTS 1450 3S	4.6			Н	Н	+	+	+	+	-	\vdash		Н	Н	Н			•			H	Н	Н	\vdash	+	+	•		•
	4.0																	•									-		

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure						Gas b	urner							С	ontro	l pane	ls
	in combustion chamber	Yel	low fla	ame (s	Stand	ard)			ВІ	ue fla	me (L	ow NO	Ox)					
	(mbar)	Two stage						Modu	lating	5								
		-			М	echan	ical c	am			El	lectro	nic ca	m				
		RS 190 TL	RS 190/M TL	RS 310/M MZ	RS 410/M MZ	RS 510/M MZ	RS 200/M BLU TL	RS 310/M BLU	RS 410/M BLU	RS 510/M BLU	RS 200/E BLU	RS 310/E BLU	RS 410/E BLU	RS 510/E BLU	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		20030087	20052616	20068351	20067141	20068027	3899711	20067964	20069841	20069845	3899810	20065783	20056927	20056930	20010820	4031069	4031067	20013035
	5.9	•													•		•	
DT00	5.9		•													•		•
RTS 1750 3S	5.9						•									•		•
	5.9										•					•		•
	9.5			•												•		•
RTS 2100 3S	9.5							•								•		•
	9.5											•				•		•
	10.8				•											•		•
RTS 2600 3S	10.8								•							•		•
	10.8												•			•		•
	12.5					•										•		•
RTS 3000 3S	12.5									•						•		•
	12.5													•		•		•

Description	Back-pressure in combustion	_									_		il bu	ırne	r							$\overline{}$		ner ssory	Bu	rner	flai	nge	Cor	ntrol	l pan
	chamber	_					w f	lam	e (St	and		_				_		_		e (Lo	w NOx	_		,							
	(mbar)	_		T	wo:		e			_		odu					Tw	o st	age	_	Modu										
						-				ļ '	Mec	han	ıcal	can	1			-			Mecha	anical m									
																							F 50.2	F 50.2						mfort	
		RG3D	RG4D	RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	RL 28/M TC	RL 38/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit
		3739450 R	3739750 R	3474632 R		3475232 R	3475432 R	3470210 R	3470310 R	20166502 R	20166463 R	20166481 R	20166486 R	20166492 R	20166497 R	20015693 B	20015696 B	20027479 R	20027481 R	20027567 R	20169338 R	20169330 R	20082208 K	Z0099869 K	20043900 B	4031188 B	4031196 B	4031198 B	20010820 R	4031069 R	4031067 T
TC 00 3C	1.0	•																											•		•
TS 90 3S	1.0															•													•		•
	1.4	•																											•		•
TS 115 3S	1.4																•												•		•
· · · · · · · · · · · · · · · · · · ·	1.8		•																	П									•		•
RTS 166 3S	1.8																	•		П								•	•		•
	2.7							•																				•	•		•
RTS 217 3S	2.7													•														•		•	
	2.7																	•										•	•		•
	2.9							•																					•		•
RTS 255 3S	2.9													•																•	
	2.9																		•										•		•
	3.6								•																				•		•
RTS 349 3S	3.6														•					П										•	
	3.6																			•						•			•		•
	2.9			•																П									•		•
	2.9									•										П										•	
RTS 448 3S	2.9																			•						•			•		•
	2.9																				•						•			•	
	2.9																						•						•		•
	5.4			•																Н									•		•
	5.4									•										Н										•	
RTS 511 3S	5.4																			Н	•						•			•	
	5.4																						•						•		•
	5.2				•																								•		•
	5.2										•																			•	
RTS 639 3S	5.2																				•						•			•	
	5.2																						•						•		•
	5.4				•																								•		•
	5.4										•																			•	
RTS 750 3S	5.4																				•						•			•	
	5.4																						•						•		•
	6.7					•																							•		•
	6.7											•																		•	
RTS 850 3S	6.7																			Н		•					•			•	
	6.7																			H			•						•	Н	•
	3.9						•													H					•				•	Н	•
RTS 1160 3S	3.9											•								Н					Ĺ					•	
1100 33	3.9											ř								H				•					•	-	•
	4.6						•													Н				Ť	•				•	Н	•
	+.0																								T .				ت		

Description	Back-pressure			D	ual f	uel t	urne	er			Bui	ner		Burr	er fla	ange		Со	ntrol	pan	els
	in combustion chamber			ow fla			Blu	e fla	me (Low	acce	ssory									
	(mbar)			o sta				Modu		g											
				-			Ме	chan	ical (cam											
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 190/M MZ	Kit modulation RWF 50.2	Kit modulation RWF 50.2	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit				
		20147897	20147803	20147805	20147798	20147799	20147784	20147786	20147789	20159361	20082208	20099869	20043900	20047680	4031188	4031196	4031198	20010820	4031069	4031067	20013035
RTS 166 3S	1.8	•															•	•		•	
RTS 217 3S	2.7	•															•	•		•	
RTS 255 3S	2.9	•																•		•	
RTS 349 3S	3.6		•															•		•	
PTC 110 DC	2.9			•														•		•	
RTS 448 3S	2.9						•				•							•		•	
DTC 744 0C	5.4				•													•		•	
RTS 511 3S	5.4						•				•							•		•	
RTS 639 3S	5.2				•													•		•	
65 650 613	5.2						•				•							•		•	
RTS 750 3S	5.4				•													•		•	
K13 730 33	5.4						•				•							•		•	
RTS 850 3S	6.7					•												•		•	
M13 050 53	6.7							•			•							•		•	
RTS 1160 3S	3.9									•	•			•				•		•	
N13 1100 33	3.9								•			•						•		•	
RTS 1450 3S	4.6									•	•			•				•		•	
נכ טכדו נווו	4.6								•			•						•		•	

Description	Back-pressure				Dua	l Fuel bu	rner				Burner	Contro	l panels
	in combustion chamber (mbar)	Yellow flame			В	lue flame	e (Low N	Ox)			flange		
	(induit)				N	1odulatir	ng						
			Мес	hanical	cam			Electro	nic cam				
		RLS 190/M MZ	RLS 310/M MX	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 310/E MX	RLS 310/E MX	RLS 410/E MX	RLS 510/E MX		Riellotech Clima Comfort	3-point modulation kit
		20205672	20205664	20205664	20208593	20205565	20087644	20087644	20084376	20083562	20163867	4031069	20013035
	5.9	•										•	•
RTS 1750 3S	5.9		•								•	•	•
	5.9						•				•	•	•
PTC 2400 PC	9.5			•								•	•
RTS 2100 3S	9.5							•				•	•
PTC - 4 C	10.8				•							•	•
RTS 2600 3S	10.8								•			•	•
PTC 2000 25	12.5					•						•	•
RTS 3000 3S	12.5									•		•	•

TERMINAL UNITS

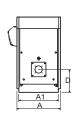
RIELLO

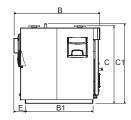
Three flue gas passes steel jet burner boilers

RTS 2S

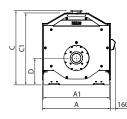
Products up to 400 kW only for replacement, till 1^{st} January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

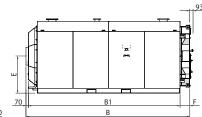
RTS 115-2200 2S





RTS 2600-3700 2S





RIELLO

- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	A (mm)	A1 (mm)	B (mm)	B1 (mm)	C (mm)	C1 (mm)	D (mm)	E (mm)	F (mm)	Weight (inclusive of casing)	Boiler weight	Panelling Weight
RTS 115 2S	660	580	1155	860	1205	1225	380	180	-	335	-	-
RTS 150 2S	710	640	1330	1010	1285	1305	380	190	-	420	-	-
RTS 200 2S	760	690	1500	1180	1390	1390	400	200	-	515	-	-
RTS 247 2S	760	690	1500	1180	1390	1390	400	200	-	535	-	-
RTS 319 2S	820	750	1660	1296	1524	1525	468	225	-	715	-	-
RTS 410 2S	820	750	1960	1596	1490	1525	468	225	-	840	-	-
RTS 526 2S	890	790	2085	1692	1685	1730	510	250	-	1160	-	-
RTS 736 2S	1000	900	2375	1965	1830	1875	560	270	-	1500	-	-
RTS 850 2S	1000	900	2375	1965	1830	1875	560	270	-	1500	-	-
RTS 1012 2S	1047	980	2657	2236	1920	1960	570	270	-	2040	-	-
RTS 1200 2S	1047	980	2657	2236	1920	1960	570	270	-	2040	-	-
RTS 1355 2S	1147	1070	2954	2533	2080	2120	625	270	-	2627	-	-
RTS 1500 2S	1147	1070	2954	2533	2080	2120	625	270	-	2627	-	-
RTS 1850 2S	1237	1160	3173	2754	2222	2222	650	270	-	3440	-	-
RTS 2200 2S	1340	1260	3460	3020	2322	2322	670	265	-	4530	-	-
RTS 2600 2S	1800	1750	3981	3394	1980	1872	750	1000	270	-	5115	180
RTS 3200 2S	1900	1850	4171	3831	2070	1997	750	1030	270	-	5565	212
RTS 3700 2S	1900	1900	4491	3962	2070	1997	750	1030	270	-	6005	247

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and three passes flue path. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses.

The door features an ambidextrous opening and is provided with a peephole with pressure intake.

Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 ba

TECHNICAL DATA

Description	Powe	r - kW	Efficie	ncy - %	Notes	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn		
RTS 115 2S	115	125	92.2	97.2		20150418
RTS 150 2S	150	163	92.2	97.2		20150304
RTS 200 2S	200	216	92.7	97.2		20150305
RTS 247 2S	247	264	93.5	97.2		20150410
RTS 319 2S	319	341	93.5	97.2		20150412
RTS 410 2S	410	439	93.5	97.2		20150416
RTS 526 2S	526	563	93.5	97.2		20150417
RTS 736 2S	736	787	93.5	97.2		20150419
RTS 850 2S	850	909	93.5	97.2	(1)	20150434
RTS 1012 2S	1012	1082	93.5	97.2	(1)	20150420
RTS 1200 2S	1200	1283	93.5	97.2	(1)	20150435
RTS 1355 2S	1355	1449	93.5	97.2	(1)	20150432
RTS 1500 2S	1500	1609	93.2	97.2	(1)	20150437
RTS 1850 2S	1850	1980	93.5	97.2	(1)	20150433
RTS 2200 2S	2200	2350	93.5	97.2	(1)	20204041
RTS 2600 2S	2600	2781	93.5	97.2	(1)	20204045
RTS 3200 2S	3200	3422	93.5	97.2	(1)	20204048
RTS 3700 2S	3627	3880	93.5	97.2	(1)	20204050

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031188
Burner flange	4031196
Burner flange	4031395
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198
Burner flange	20043900
Burner flange	20047680
Burner flange	20065920
Burner flange	20043899
Burner flange	20184817
Burner flange	20163867

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOTECH CLIMA COMFORT	Vertical	4031069	All models
RIELLOTECH PRIME	Vertical	20010820	All models
RIELLOTECH PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech Prime.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Maximum operating pressure: 6 bar. (1) For orders please contact Sales Department.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion										ias t	ourn	er											Bui	rnei	r fla	nge		Co	ntro	l pan
	chamber						ie (S	tan	dard	d)								(Lov	w N	0x)											
	(mbar)	One stage		Tw	o st	age								Moc	lula	ting															
		-			-						Mec	han	ical	can	1			Ele	ectr	onic	c ca	m									
																														Comfort	
		RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit					
		3788610	3785302	3785502	3785813	3789110	3784702	3789710	3789810	3787623	3788810	3781622	3897606	3788006	3899710	3897306	3897406	3897632	3788032	3899810	3897332	3897432	20043900	20047680	20065920	4031188	4031196	4031395	20010820	4031069	4031067
	3.70	•																Ш										•	•		
	3.70					•												Щ										•	•		•
RTS 410 2S	3.70										•							Ш										•		•	
	3.70															•		Ш										•		•	
	3.70																				•							•		•	
	2.20						•																					•	•		•
RTS 526 2S	2.20											•																•		•	
N13 J20 23	2.20																•										•			•	
	2.20																					•					•			•	
	4.80		•																							•			•		•
DTC 720 2C	4.80							•																		•				•	
RTS 739 2S	4.80												•														•			•	
	4.80																	•									•			•	
	6.80		•																							•			•		•
	6.80							•										П								•				•	
RTS 850 2S	6.80												•														•			•	
	6.80																	•									•			•	
	6.10		•															П					•						•		•
	6.10								•														•							•	
RTS 1012 2S	6.10												•										•							•	
	6.10																	•					•							•	
	9.80			•																			•						•		•
	9.80								•									Н					•							•	
RTS 1200 2S	9.80													•				Н							•					•	
	9.80																	H	•						•					•	
	5.10				•													Н	-						•				•	Ė	•
	5.10				-					•								Н							•				H	•	
RTS 1355 2S	5.10									-				•				Н							•					•	
	5.10													ŕ				H	•						•					•	
	7.00				•													H	-						•				•	Ť	•
	7.00				É					•								H							•				ŕ	•	-
RTS 1500 2S	7.00			-	\vdash			-	-	ř		-		•				H					-	\vdash	•	-	-	\vdash	-	•	
														_				H	•					\vdash	•			\vdash		•	\vdash
	7.00				•										-			H	_					•	Ť				•	-	•
	7.20				•					_								H								-			•		
RTS 1850 2S	7.20			-	H			-	-	•					_			H					_	•	-			H	-	•	
	7.20				_				-						•			Н						•	-				-	•	
	7.20																			•				•						•	

NOTE: the gas burners must be completed with the gas train.

Description	Back-pressure					G	as burn	ier							panels
	in combustion chamber	١	'ellow f	lame (S	tandard	1)		Blu	e flame	(Low N	10x)		flange		
	(mbar)					М	odulati	ng							
				Mec	hanical	cam				Electro	nic cam	l			
		RS 410/M MZ	RS 510/M MZ	RS 610/M MZ	RS 310/M BLU	RS 410/M BLU	RS 510/M BLU	RS 610/M BLU	RS 310/E BLU	RS 410/E BLU	RS 510/E BLU	RS 610/E BLU		Riellotech Clima Comfort	3-point modulation kit
		20067141	20068027	20066706	20067964	20069841	20069845	20069847	20065783	20056927	20056930	20056932	20163867	4031069	20013035
	10.4				•								•	•	•
RTS 2200 2S	10.4								•				•	•	•
	12	•											•	•	•
RTS 2600 2S	12					•							•	•	•
	12									•			•	•	•
	12		•										•	•	•
RTS 3200 2S	12						•						•	•	•
	12										•		•	•	•
	15			•									•	•	•
RTS 3700 2S	15							•					•	•	•
	15											•	•	•	•

HOI AIR

Description	Back-pressure in combustion		_				Ligi	ht o	il b	urn									l bi	ırne			Burner		Bu	rnei	fla	nge		Cor	ntro	pan	els
	chamber	Υ	ello	ow	flai	me	(Sta	nda	ard)		Blue	flame N0x)	(Low			w fl		9			e flan w N0x		accessory										
	(mbar)	Τv	vo s	stag	ge	1	—— ۱od	ula	ting	7	Two		lating				,		Mod	dula		,											
			_	_		Ме				_	stage -	Mech	anical im		-						al can	n											
		RL 50 TC	RL 100 TC	RL 130 TC	RL 190 TC	RL 38/M TC	RL 50/M TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 310/M MX	Kit modulation RWF 50.2	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit					
					3475613 F		П	-	-	20166490 F	20027567 F	20169338 F	20169330 F	20147805 F	20147798 F	20147799 F	20159361 F	20145372 F	20147784 F	20147786 F	20147789	20147806 F	20082208	20043900 E	20047680 E		4031188 E	4031196 E	4031395 E	20010820 F	4031069 F	40310 <i>6</i> 7	20013035
	3.70	•													• •		.,	-							<u> </u>		-	-	•	•	_	•	Ť
	3.70					•																							•		•		•
RTS 410 2S	3.70						Н				•									П							•			•		•	
	3.70						Н							•						Н									•	•	Н	•	Г
	3.70																		•				•							•		•	r
	2.20	•					Н			H										Н									•	•		•	
	2.20			Н			•	H		H										H									•		•		•
RTS 526 2S	2.20											•																•			•		•
320 25	2.20						Н		Н						•					Н							•			•		•	H
	2.20																		•				•				-			•		•	H
	4.80		•				Н		_										Ť	Н							•			•		•	H
	4.80							•																			•			Ť	•	_	•
TC 720 20								•					•														•	•			•		,
RTS 739 2S	4.80												•		•													•			•	•	Ľ
	4.80														•					H			•				•			•		•	H
	4.80		_																•	H			•									•	H
	6.80		•					_												H							•			•	_	•	L
RTS 850 2S	6.80							•																			•	-			•		•
	6.80															•							_					•		•		•	
	6.80																			•			•					_	_	•		•	L
	6.10		•																	Ш				•						•		•	L
RTS 1012 2S	6.10							•																•							•		•
	6.10															•								•						•		•	
	6.10																			•			•							•		•	L
	9.80			•																Ш				•						•		•	L
RTS 1200 2S	9.80								•											Ш				•							•		•
	9.80																•						•			•				•		•	L
	9.80																				•		•							•		•	L
	5.10			•																Ш				•						•		•	
RTS 1355 2S	5.10								•											Ш				•							•		•
20	5.10																•			Ш			•			•				•		•	
	5.10																			Ш	•		•							•		•	
	7.00				•															Ш						•				•		•	
RTS 1500 2S	7.00									•										Ш						•					•		•
	7.00																•			Ш			•			•				•		•	
	7.00																				•		•							•		•	
	7.20				•	L										Ĺ			L					_	•				L	•		•	Ĺ
OTS 1950 25	7.20				L					•															•				L		•		•
RTS 1850 2S	7.20																	•					•		•					•		•	
	7.20																					•	•							•		•	Г

Description	Back-pressure				Dual Fu	el burner				Burner	Contro	panels
	in combustion chamber			Е	lue flam	e (Low NO	x)			flange		
	(mbar)				Modu	ılating						
			Mechan	ical cam			Electro	nic cam				
		RLS 310/M MX	RLS 4101M MX	RLS 410/M MX	RLS 510/M MX	RLS 310/E MX	RLS 410/E MX	RLS 410/E MX	RLS 510/E MX		Riellotech Clima Comfort	3-point modulation kit
		20205664	20208593	20208593	20205565	20087644	20084376	20084376	20083562	20163867	4031069	20013035
	10.4	•								•	•	•
RTS 2200 2S	10.4					•				•	•	•
DTC 2500 25	12		•							•	•	•
RTS 2600 2S	12					•				•	•	•
DTC 2000 OC	12			•						•	•	•
RTS 3200 2S	12							•		•	•	•
PTC 2700 25	15				•					•	•	•
RTS 3700 2S	15								•	•	•	•

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure						G	as t	urn	er								Bu	rner	fla	nge			Co	ntro	l pan	els
	in combustion chamber				,	Yello	ow f	lam	e (S	tano	dard	1)															
	(mbar)		ne age		T	wo	stag	ge			М	odu	latii	ng													
		-	-				-				Mec	han	ical	can	1												
		TC	TC										TC	ТС	TC	ge	ge	ge	ag.	ge.	age -	age .	ge.	rime	Riellotech Clima Comfort	urner nt kit	ulation kit
		RS 34/1 MZ T	RS 44/1 MZ T	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS5D	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 34/M MZ	RS 44/M MZ TC	RS 50/M MZ TC	Burner flange	Riellotech Prime	Riellotech Cl	Two stage burner management kit	3-point modulation kit							
		3788510	3788610	3785302	3785502	3785813	3789110	3784702	3762016	3789710	3789810	3787623	3788710	3788810	3781622	20043900	20047680	20065920	4031186	4031188	4031192	4031198	4031395	20010820	4031069	4031067	20013035
	3.00	•																				•	\perp	•			
RTS 247 2S	3.00								•										•					•		•	
	3.00												•									•		\perp	•		•
	2.40	•																			•			•			
RTS 319 2S	2.40						•														•			•		•	
	2.40												•									•			•		•
	3.70		•																				•	•			
RTS 410 2S	3.70						•																•	•		•	
	3.70													•									•		•		•
RTS 526 2S	2.20							•															•	•		•	
R13 320 23	2.20														•								•		•		•
RTS 739 2S	4.80			•																•				•		•	
KIS 139 23	4.80									•										•					•		•
RTS 850 2S	6.80			•																•				•		•	
N13 050 23	6.80									•										•					•		•
RTS 1012 2S	6.10			•												•								•		•	
K15 1012 25	6.10										•					•									•		•
RTS 1200 2S	9.80				•											•								•		•	
KIS 1200 25	9.80										•					•									•		•
DTC 12EE 2C	5.10					•												•						•		•	
RTS 1355 2S	5.10											•						•							•		•
RTS 1500 2S	7.00					•												•						•		•	
N13 1300 23	7.00											•						•							•		•
DTC 10E0 3C	7.20					•											•							•		•	
RTS 1850 2S	7.20											•					•								•		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure			_	_	_	_			G	as b	urn	er		_	_		_	_	_			_	_	Bui	ner	fla	nge			_	Coi	ntro	l par	nels
	in combustion chamber								Βlι	ıe fl	ame	e (Lo	w	(x0v																					
	(mbar)		ne age		vo age							М	odı	ılati	ng																				
		300	-	300	-			Ме	echa	anic	al c	am				Е	lecti	roni	с са	m															
																																	Comfort		n kit
		BS3	BS4	BS3D	BS4D	BS3/M	BS4/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit									
		3761316	3761416	3761716	3761816	3762350	3762450	3897606	3788006	3899710	3910510	3910610	3897306	3897406	3897632	3788032	3899810	3910710	3910810	3897332	3897432	20043899	20043900	20047680	20065920	4031186	4031192	4031196	4031198	4031395	20184817	20010820	4031069	4031067	20013035
	1.20	•																				•										•			
RTS 115 2S	1.20			•																		•										•		•	
	1.20					•																•											•		•
	1.60	•														-															•	•			_
RTS 150 2S	1.60		-	•							-					-			-					_							•	•		•	
	1.60		•				•					H	H	-	H								H	_		•	H					•	•		•
	1.80		•	-	•						-	H	-	+	H	-			-	-				_		•						•		•	+
RTS 200 2S	1.80										•					-										Ť			•			_	•	_	•
	1.80										Ť			+				•											•				•		•
	3.00										•	H		+	Н														•				•		•
RTS 247 2S	3.00																	•											•				•		•
	2.40											•	Т														•						•		•
RTS 319 2S	2.40																		•								•						•		•
PTC / 40 25	3.70												•																	•			•		•
RTS 410 2S	3.70																			•										•			•		•
RTS 526 2S	2.20													•														•					•		•
	2.20																				•							•					•		•
RTS 739 2S	4.80							•																				•					•		•
	4.80												_		•													•					•		•
RTS 850 2S	6.80							•					_		-													•					•		•
	6.80		_	_				_			_	-	-	-	•	-			_	_			_	_			_	•				_	•		•
RTS 1012 2S	6.10							•							•								•										•		•
	9.80							-	•				\vdash	-	-								-	_	•			-			-		•		•
RTS 1200 2S	9.80								Ť			-	H			•								_	•								•		•
	5.10						_		•				\vdash			Ť							_	_	•		_					_	•		•
RTS 1355 2S	5.10								Ė							•									•								•		•
	7.00								•																•								•		•
RTS 1500 2S	7.00															•									•								•		•
PTC 4050 25	7.20									•														•									•		•
RTS 1850 2S	7.20																•							•									•		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

310

Description	Back-pressure					G	as burn	er					Burner	Control	panel
	in combustion chamber	Y	ellow fl	ame (S	tandard	1)		Blu	e flame	(Low N	10x)		flange		
	(mbar)					М	odulati	ng							
				Mec	hanical	cam				Electro	nic cam				
		RS 410/M MZ	RS 510/M MZ	RS 610/M MZ	RS 310/M BLU	RS 410/M BLU	RS 510/M BLU	RS 610/M BLU	RS 310/E BLU	RS 410/E BLU	RS 510/E BLU	RS 610/E BLU		Riellotech Clima Comfort	3-point modulation kit
		20067141	20068027	20066706	20067964	20069841	20069845	20069847	20065783	20056927	20056930	20056932	20163867	4031069	20013035
	10.4				•								•	•	•
RTS 2200 2S	10.4								•				•	•	•
	12	•											•	•	•
RTS 2600 2S	12					•							•	•	•
	12									•			•	•	•
	12		•										•	•	•
RTS 3200 2S	12						•						•	•	•
	12										•		•	•	•
	15			•									•	•	•
RTS 3700 2S	15							•					•	•	•
	15											•	•	•	•

AUGUST 2024 EDITION

Description	Back-pressure in combustion								_		_	_		ht o		urn	er				_	_								Bu	rne	r fla	nge						ntro	
	chamber	_		_				Ye				_	and	ard))		_			_	_			_	(Low N													ν.		
	(mbar)	01	_	sta:	ge				Tv	vo s	stag	е			-		_	ılati ical	_	m	Tv	vo s	tage		Modula Mechar															
									_						-			_						4	can							_		_	_		-			
																																					ē	a Comfort	i÷	tion kit
		RG3	RG4S	RG5S	RL 34/1 MZ TC	RG3D	RG4D	RG5D	RL 100 TC	RL 130 TC	RL 190 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50 IC RI 64 M7 TC	RL 100/M TC	RL 130/M TC	RL 190/M TC	RL 28/M TC	RL 38/M TC	RL 50/M TC	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Two stage burner	3-point modulation kit									
		3739300	3739650	3739950	3470110			3739850	3475232	3475432	3475613	3470210		3474632	20166481	20166486	20166490	20166492	20166497	20166502	20015696	20027479	20027481	20027567	20169338	20169330	20043899	20043900	20047680	20065920	4031186	4031188	4031192	\top	4031395	20184817	20010820	4031069	4031067	20013035
	1.20	•																									•								I		•			
RTS 115 2S	1.20					•																					•										•		•	
	1.20																				•						•										•		•	
	1.60		•		Ĺ	Ĺ																							[Ĺ	Ţ	•	•	Ĺ		
RTS 150 2S	1.60						•																													•	•		•	
	1.60																					•												•)		•		•	
	1.80			•																											•				\perp		•	L		
RTS 200 2S	1.80							•																_							•				\perp		•	L	•	
	1.80																	•														_		•	_			•		•
	1.80					L						_			_	L						•		4					_	4	4		4	•	<u>'</u>	_	•	L	•	
	3.00				•									_	_									4					_		4	_	_	•	+	_	•	L		
RTS 247 2S	3.00					L						•	4	_	_	-	_	_		Ш	_			4					_	4	4	_	4	•	+	+	•	+	•	_
	3.00					L						4	4	_	+	-		•						4					4	4	4	4	4	•	-	+	-	•		•
	3.00					L						4	4	_	+	-							•	4					4	4	4	4	4	•	_	+	•	L	•	-
	2.40					H						_	•	+	+	+		-						+				_	4	4	4	-	•	+	+	+	•	+	•	-
RTS 319 2S	2.40		L									_	-	+	+	-	-	•			_		_	+					_	4	+	+	•	+	+	+	-	•	-	•
	2.40				H	H			Н			+	-	٠.	+	+	-	-				Н	•	+	-			-	+	4	+	+	•	+	+	+	•	\vdash	•	-
DTC / 40 DC	3.70					H				H		\dashv	+	•	+	+	-	-			_		-	+				-	\dashv	+	+	•	+	+	+	_	•	-	•	
RTS 410 2S	3.70					H				H		\dashv	+	+	+	+	-	-	•		_		1	•				-	\dashv	+	+	_	+	+	•	+	-	•	-	•
	3.70		H							H		\dashv	+	+	+	\vdash	-	-	H		_			-				-	\dashv	+	+	•	+	+		_	•	H	•	+
DTC 526 25	2.20											-		•	+						_			+					-	-	+	+	+	+	-	+	•			
RTS 526 2S	2.20											-	-	+	+		-			•	_			+	•				-	-	+	+	٠,	,	•	-	+	•	_	•
	2.20 4.80		H			H			•			\dashv	+	+	+	+					-		+	+				\dashv	\dashv	+	+	•	+	+	+	+	•	+	•	+
RTS 739 2S	4.80					H			_	H		\dashv	+	+	•	+	H		H		_			+				\dashv	+	+	-	•	+	+	+	+	+	•	Ť	•
N13 139 23	4.80					-			Н			\dashv	+	+	Ť	+	-	-			_	Н		+		•		-	+	-	+	_	٠,	,	+	+	+	•		•
	6.80								•			+		+	+	+					_			+		_		-	\dashv	+	+	•	+	+	+	+	•	+	•	+
RTS 850 2S	6.80					H			_			+			•	+					_	Н		+					+	1	-	•	+	+	+	+	+	•	-	•
	6.10								•			\forall		+	+	+								+				•	\forall	+	+	+	+	$^{+}$	+	+	•	+	•	
RTS 1012 2S	6.10					H						\dashv			•	+	H				_	Н		$^{+}$				•	\forall	1	\forall	†	+	t	+	+	+	•		•
	9.80									•		\exists												\top				•	\dashv		\top	+	†	†	+	+	•	\vdash	•	
RTS 1200 2S	9.80															•								\top				•			\forall	+	1		+	T		•		•
	5.10								П	•	П	\dashv		\top			T		П	П		П		\dagger			П	•	\exists		\forall		\dagger		\top		•		•	
RTS 1355 2S	5.10								П	П	П	\exists	\top		1	•			П	П		П		\dagger			П	•	\exists	7	\forall	\top	\top	T	\top			•		•
	7.00				Г				П		•	\exists					T							\dagger						•		1	\dagger	T		T	•	T	•	
RTS 1500 2S	7.00				Г				П	П		\exists					•		П					\top					\exists	•	\top	\top		T	\top	T		•		•
	7.20										•				T		Γ			П		П					П		•				1		T		•		•	
RTS 1850 2S	7.20								П				\neg	\top	_		•				-	\vdash		\neg			-	_	•	\rightarrow	_	_	_		-			•		•

HOT AIR

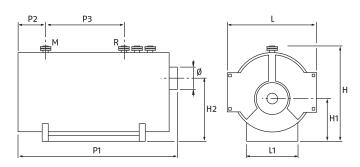
Description	Back-pressure in combustion							el burr	ier				Burner			Bu	rner	fla	nge				ntrol nels
	chamber					v fla ndar					e flan		accessory									μa	iieis
	(mbar)		Tw	o st	age		Modu	lating		Мо	dulati	ng											
				-				anical am	М	echa	anical	cam											
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 310/M MX	Kit modulation RWF 50.2	Burner flange	Riellotech Prime	Two stage burner							
		20147897	20147803	20147805	20147798	20147799	20159361	20145372	20147784	20147786	20147789	20147806	20082208	20043900	20047680	20065920	4031188	4031192	4031196	4031198	4031395	20010820	4031067
RTS 150 2S	1,60	•																		•	П	•	•
RTS 200 2S	1,80	•																		•		•	•
RTS 247 2S	3,00	•																		•		•	•
RTS 319 2S	2,40		•														П	•		П		•	•
RTS 410 2S	3,70			•																	•	•	•
K13 410 23	3,70								•				•									•	•
RTS 526 2S	2,20				•												•			L		•	•
	2,20								•				•							L		•	•
RTS 739 2S	4,80	L			•												•	L	L	L	Ш	•	•
	4,80	L							•				•				L	L	L	L	Ш	•	•
RTS 850 2S	6,80	L				•											L	L	•	L	Ш	•	•
	6,80	\perp								•			•				\perp		L	L		•	•
RTS 1012 2S	6,10	L				•								•			L	L	L	L	Ш	•	•
	6,10	\perp								•			•				\perp		L	L		•	•
RTS 1200 2S	9,80	L					•						•			•	L	L	L	L	Ш	•	•
	9,80	\perp									•		•				\perp		L	L		•	•
RTS 1355 2S	5,10						•						•			•	L		L	L		•	•
	5,10										•		•				\perp		L			•	•
RTS 1500 2S	7,00						•						•			•	L		L	L		•	•
	7,00										•		•				L	L	L	L		•	•
RTS 1850 2S	7,20							•					•		•		L		L	L		•	•
	7,20											•	•									•	•

Description	Back-pressure				Dual Fue	el burner				Burner	Contro	l panels
	in combustion chamber			В	lue flame	e (Low NO	x)			flange		
	(mbar)				Modu	lating						
			Mechan	ical cam			Electro	nic cam				
		RLS 310/M MX	RLS 410/M MX	RLS 410/M MX	RLS 510/M MX	RLS 310/E MX	RLS 410/E MX	RLS 410/E MX	RLS 510/E MX		Riellotech Clima Comfort	3-point modulation kit
		20205664	20208593	20208593	20205565	20087644	20084376	20084376	20083562	20163867	4031069	20013035
	10.4	•								•	•	•
RTS 2200 2S	10.4					•				•	•	•
PTC acces as	12		•							•	•	•
RTS 2600 2S	12					•				•	•	•
PTC 2200 25	12			•						•	•	•
RTS 3200 2S	12							•		•	•	•
RTS 3700 2S	15				•					•	•	•
R13 3100 23	15								•	•	•	•

Three flue gas passes steel jet burner boilers

RTG





- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	L	Н	P1	L1	H1	H2	P2	P3	Ø	Net w	eight kg
	mm 5 bar	8bar									
RTG 4000	2260	2660	5550	1500	1070	1780	860	2800	600	10050	11350
RTG 4300	2260	2660	5550	1500	1070	1780	860	2800	600	10200	11500
RTG 5000	2500	2950	6070	1620	1225	1955	922	3000	700	13300	14950
RTG 6000	2500	2950	6570	1620	1225	1955	922	3450	700	14200	5950
RTG 7500	2750	3200	7020	1800	1305	2110	1022	3600	800	19200	19950
RTG 9000	2910	3360	7320	1900	1355	2210	1022	3900	900	23000	23500

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole (models from 5000 to 9000).

The particular geometry of the heat exchanger allows reducing the presence of fumes in the high temperature zones, thus reducing the formation of NOx. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.

The body is thermally insulated with high density stone wool and protected by an aluminium sheet.

These boilers are available in 6 models with useful output from 4,680 to 10,560 kW.

The optional control panel must be ordered separately.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello monobloc burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

TECHNICAL DATA

Description	Powe	er – kW	Efficie	ncy - %	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn	
RTG 4000	4680	5050	92.7	93.3	4031411
RTG 4300	5030	5450	92.3	92.8	4031889
RTG 5000	5830	6310	92.4	93.0	4031413
RTG 6000	7020	7590	92.5	93.1	4031415
RTG 7500	8760	9460	92.6	93.2	4031417
RTG 9000	10560	11400	92.6	93.2	4031419

The product codes above refer to 5-bar models. Maximum operating pressure 5 bar (8 bar on request).

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort. Thermostatic management with RIELLOtech PRIME.

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure	tion Vallow flame (Standard) Rive flame (Low NOV)												ntro	l par	iels																
	in combustion chamber		١	/ellc	w f	lam	e (S	tand	dard)							Е	Blue	flar	ne (Low	NO	k)									
	(mbar)	Tv	vo ige												Мос	dula	ting	5														
		310	-							Me	echa	nic	al ca	am									Ele	ctro	nic	cam						
																														ort		
		RS 130 TC	RS 190 TC	RS 190/M TC	S 250/M MZ TC	5 310/M MZ FS1	RS 410/M MZ FS1	S 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	RS 160/M BLU TC	RS 200/M BLU TC	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU FS1	S 610/M BLU FS1	RS 810/M BLU FS1	RS 1000/M BLU	RS 1200/M BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1	RS 1000/E BLU	Riellotech Prime	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
		<u>~</u>	<u>~</u>	ě:	S5	S2		2				ě:	<u>~</u>				8			č	~	~						~		~	≥ ≿	
		3785502	3785813	3787623	3788410	20068351	20068361	20068027	20066706	20145938	20145936	3788006	3899710	20067964	20069841	20069845	20069847	20155846	20145840	20145867	3788032	3899810	20065783	20056927	20056930	20056932	20160126	20057514	20010820	4031069	4031067	20013035
	7.0								•																					•		•
RTG 4000	7.0																•													•		•
	7.0																									•				•		•
	8.2								•																					•		•
RTG 4300	8.2																	•												•		•
	8.2																										•			•		•
	5.6									•																				•		•
RTG 5000	5.6																	•												•		•
	5.6																										•			•		•
	8.4									•																				•		•
RTG 6000	8.4																		•											•		•
	8.4																											•		•		•
RTG 7500	8.1										•																			•		•
N10 1 JUU	8.1																			•										•		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure		Ligi	ht oil	burne	r		Dual fuel burner										Со	ntrol	l pan	els
	in combustion chamber						Yellov	n fla	me (S	tano	lard)										
	(mbar)	Tv	o sta	age	Modu	lating	Two stage				٨	1odu	latin	g							
			-			anical am	-				Med	chan	ical d	am							
		3475432 RL 130 TC	3475613 RL 190 TC	3470010 RL 250 MZ TC	20166486 RL 130/M TC	20166490 RL 190/M TC	20147800 RLS 130	20159361 RLS 190/M MZ	20145372 RLS 250/M MZ	20147789 RLS 160/M MX TC	20147806 RLS 310/M MX	20147809 RLS 410/M MX	20147812 RLS 510/M MX	20147813 RLS 610/M MX	20147802 RLS 800/M MX	20147815 RLS 1000/M C13	20147814 RLS 1200/M C13	4031069 Riellotech Clima Comfort	20010820 Riellotech Prime	4031067 Two stage burner management kit	20013035 3-point modulation kit
RTG 4000	7.0	(II)	m	m	N	N	N	- (4	N	1/4	1/4	1/4	- (4	•	N	N	N	•	1/4	•	- (4
RTG 4300	8.2													•				•		•	
RTG 5000	5.6														•			•		•	
RTG 6000	8.4															•		•		•	
RTG 7500	8.1																•	•		•	
RTG 9000	8.7																	•		•	

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

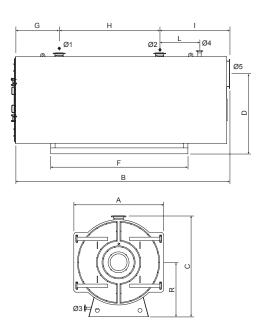
Three flue gas passes steel jet burner boilers

RTQ T





- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions



Description		3000	3500	4000	5000	6000	7000	8000	9000	10000	11000	12000	14000	16000	18000
A	mm	2010	2050	2100	2350	2400	2480	2580	2800	2800	2900	3000	3080	3280	3370
В	mm	5164	5310	5425	6115	6332	6415	6432	6452	6732	6732	7332	8102	8492	8902
С	mm	2370	2400	2450	2700	2750	2830	3000	3300	3300	3400	3500	3700	3900	4000
D	mm	1790	1820	1795	2050	2095	2115	2300	2400	2400	2500	2600	2800	3000	3100
F	mm	2800	3000	3000	3800	3500	4000	3700	4000	4000	4250	4400	4500	5000	5200
G	mm	801	801	881	851	791	851	800	800	800	800	800	800	800	800
	mm	2900	3080	2800	3600	3600	3900	3700	3700	4000	4000	4600	5200	5800	6200
I	mm	1463	1429	1741	1658	1941	1663	1932	1952	1932	1932	1932	2102	1892	1902
L	mm	800	800	1050	1000	1050	1000	1050	1050	1050	1050	1050	1050	1050	1050
R	mm	1240	1250	1275	1400	1425	1465	1515	1625	1625	1675	1725	1765	1865	1910
Ø1 – straight pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450				
Ø2 - return pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450				
Ø3 - drain from the boiler (**)		DN 40													
Ø4 - joining a security group (*)		DN 80	DN 80	DN 80	DN 100	DN 125									
Ø5 – flue gas outlet	mm	600	600	700	700	700	800	800	900	900	900	1000	1100	1100	1200

(*) PN16 (**) PN40

TERMINAL UNITS

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic

e formation of NOx. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.

connections, rings for lifting rods, handrails and manhole. The particular geometry of the heat exchanger allows reducing the

The body is thermally insulated with high density stone wool and protected by an aluminium sheet.

These boilers are available in 14 models with useful output from 3,000 to 18,000 kW.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections

presence of fumes in the high temperature zones, thus reducing

- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

RTQ T models can be equipped with control panels of the RIELLO 5000 series with various functional contents:

TMR2 - thermostatic panel for controlling a single-circuit boiler with one or two-stage burners; ÜL-M is an electronic climate control panel for controlling a modulating, one- or two-stage burner, built-in or free-standing storage ank or a DHW flow-through heat exchanger. Cascade control of a group of up to four boilers. Possibility to control 6 separate heating circuits (when ordering additional control units). Üontrol panels can be installed both on the top and on the side of the boiler.

To install the control panel on the side panel of the boiler, a special bracket is required (article no. 4031059).

The control panel is not included in the boiler delivery set and must be ordered separately!

TECHNICAL DATA

Description	Powe	er – kW	Efficie	ncy - %	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn	
RTQ 3000 T	3000	3226	93.0	94.0	20069409
RTQ 3500 T	3500	3763	93.0	94.0	20069418
RTQ 4000 T	4000	4301	93.0	94.0	20069419
RTQ 5000 T	5000	5376	93.0	94.0	20069420
RTQ 6000 T	6000	6452	93.0	94.0	20069424
RTQ 7000 T	7000	7527	93.0	94.0	20149276
RTQ 8000 T	8000	8602	93.0	94.0	20069429
RTQ 9000 T	9000	9677	93.0	94.0	20069433
RTQ 10000 T	10000	10753	93.0	94.0	20069439
RTQ 11000 T	11000	11828	93.0	94.0	20069441
RTQ 12000 T	12000	12903	93.0	94.0	20069443
RTQ 14000 T	14000	15054	93.0	94.0	20069444
RTQ 16000 T	16000	17204	93.0	94.0	20069445
RTQ 18000 T	18000	19355	93.0	94.0	20069446

CONTROL PANELS

Description	Code	Boiler model
Riello 5000 TMR2	07200123	All models
Riello 5000 CL-M	20020036	All models

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion						as b))									rner		_		ntrol nels
	chamber (mbar)	_			BI	ue fl				X)									w NC	JX)		,	
	(IIIDai)		Mac	hani	ical		lodu	latir	_	ctro	nic c		—				han		cam		\dashv		
			Mec						Lie	Ctioi	110 0	aiii				Med	.iiaii	icai	Calli				
		J FS1	I FS1	J FS1	RS 610/M BLU FS1	J FS1		FS1	FS	FS1	FS1	FS1		Ų	Ų	~	~	×	13	5		Riello 5000 CL-M	Riello 5000 TMR2
		RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU	181	RS 810/M BLU		RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1		RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	RLS 610/M MX	RLS 800/M MX	RLS 1000/M C13	RLS 1200/M C13		000	. 000
		√0/	10/M	10/M	10/№	10 / №		10/E	10/E	10/E	10/E	10/E		310/1	10/	210/1	510/	300/	000	1200		0 50	0 50
		RS 3	RS 4	RS 5	RS 6	RS 8	Ξ	RS 3	RS 4	RS 5	RS 6	RS 8	(1)	RLS	RLS 1	RLS	RLS (RLS 8	RLS 1	RLS 1	£	Riell	Riell
														_	_			_					
		20068245	20068284	20069845	20069847	20155846		20068261	20068294	20056930	20056932	126		807	810	812	813	802	815	814		20020036	1123
		900	900	900	900	0155	3	900	900	0026	0026	20160126	(1)	20147807	20147810	20147812	20147813	20147802	20147815	20147814	Ξ	0050	07200123
	6	9	7	7	7	7	٥	7	7	7	7	7	5		7	7	7	-2	7	7	5	9	0
RTQ 3000 T	6	Ť						•						_	_	-	-	-	-		H	•	-
5000 .	6													•	_		_	_		-			•
	8		•											_	_			_				•	
RTQ 3500 T	8								•													•	
	8														•								•
	8			•																		•	
Q 4000 T	8									•												•	
	8															•							•
	8				•																	•	
TQ 5000 T	8										•											•	
	8																•		_				•
	9					•											_					•	_
RTQ 6000 T	9											•						_				•	_
	9						•											•		_		•	•
RTQ 7000 T	9						Ť						•		_			_				•	-
MIQ 1000 1	9												-						•				•
	8						•							_	_			_				•	
RTQ 8000 T	8												•		_			_				•	
	8																		•				•
	8						•															•	
RTQ 9000 T	8												•									•	
	8																			•			•
	9						•															•	
RTQ 10000 T	9												•									•	
	9																				•		•
	9						•						_									•	\vdash
RTQ 11000 T	9												•									•	_
	9						•														•	•	•
RTQ 12000 T	11						•						•		_			_				•	-
	11												Ť								•		•
	11						•											_				•	<u> </u>
RTQ 14000 T	11												•									•	
-	11																				•		•
	12						•														\Box	•	
RTQ 16000 T	12												•									•	
	12																				•		•
	13						•															•	
RTQ 18000 T	13												•									•	
	13																				•		•

⁽¹⁾ For combination with large burners, please contact the pre-sales service. Note: the gas burners must be completed with the gas train. Note: light oil burners are equipped with light oil injectors.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Ø5

Ω

ERP

LIGHT OIL

RIELLO

Three flue gas passes steel jet burner boilers

Ø2

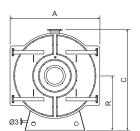
TK

Ø1









• Single-piece steel boilers with three flue gas passes, that can be matched with jet burners

Description		4000	4500	5000	6000	7000	8000	9000	10000	11000	12000	14000	16000	18000	20000
A	mm	2010	2050	2100	2350	2400	2480	2580	2750	2800	2900	3000	3080	3280	3370
В	mm	5164	5310	5425	6115	6332	6415	6432	6466	6732	6732	7332	8102	8492	8902
С	mm	2370	2400	2450	2700	2750	2830	3000	3150	3300	3400	3500	3700	3900	4000
D	mm	1790	1820	1795	2050	2095	2115	2300	2400	2400	2500	2600	2800	3000	3100
F	mm	2800	3000	3000	3800	3500	4000	3700	4020	4000	4250	4400	4500	5000	5200
G	mm	801	801	881	851	791	851	800	755	800	800	800	800	800	800
Н	mm	2900	3080	2800	3600	3600	3900	3700	3920	4000	4000	4600	5200	5800	6200
I	mm	1463	1429	1741	1658	1941	1663	1932	1658	1932	1932	1932	2102	1892	1902
L	mm	800	800	1050	1000	1050	1000	1050	1000	1050	1050	1050	1050	1050	1050
R	mm	1240	1250	1275	1400	1425	1465	1515	1625	1625	1675	1725	1765	1865	1910
Ø1 – straight pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450				
Ø2 – return pipeline (*)		DN 200	DN 200	DN 200	DN 250	DN 300	DN 300	DN 350	DN 400	DN 450	DN 450				
Ø3 – drain from the boiler (**)		DN 40													
Ø4 - joining a security group (*)		DN 80	DN 80	DN 80	DN 100	DN 125									
Ø5 - flue gas outlet	mm	600	600	700	700	700	800	800	900	900	900	1000	1100	1100	1200

(*) PN16 (**) PN40

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole.

Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.

The body is thermally insulated with high density stone wool and protected by an aluminium sheet.

These boilers are available in 14 models with useful output from 4000 to 20,000 kW.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

GENE

RTQ TK models can be equipped with control panels of the RIELLO 5000 series with various functional contents:

MR2 - thermostatic panel for controlling a single-circuit boiler with one or two-stage burners; ÜL-M is an electronic climate control panel for controlling a modulating, one- or two-stage burner, built-in or free-standing storage ank or a DHW flow-through heat exchanger. Cascade control of a group of up to four boilers. Possibility to control 6 separate heating circuits (when ordering additional control units).

Control panels can be installed both on the top and on the side of the boiler.

To install the control panel on the side panel of the boiler, a special bracket is required (article no. 4031059).

The control panel is not included in the boiler delivery set and must be ordered separately!

TECHNICAL DATA

Description	Powe	r - kW	Efficie	ency - %	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn	
RTQ 4000 TK	4000	4348	92.0	93.0	20149272
RTQ 4500 TK	4500	4891	92.0	93.0	20149273
RTQ 5000 TK	5000	5435	92.0	93.0	20149274
RTQ 6000 TK	6000	6522	92.0	93.0	20149275
RTQ 7000 TK	7000	7609	92.0	93.0	20065060
RTQ 8000 TK	8000	8696	92.0	93.0	20065062
RTQ 9000 TK	9000	9783	92.0	93.0	20065063
RTQ 10000 TK	10000	10870	92.0	93.0	20065064
RTQ 11000 TK	11000	11957	92.0	93.0	20065065
RTQ 12000 TK	12000	13043	92.0	93.0	20065066
RTQ 14000 TK	14000	15217	92.0	93.0	20065067
RTQ 16000 TK	16000	17391	92.0	93.0	20065068
RTQ 18000 TK	18000	19565	92.0	93.0	20065069
RTQ 20000 TK	20000	21739	92.0	93.0	20065070

CONTROL PANELS

Description	Code	Boiler model
Riello 5000 TMR2	07200123	All models
Riello 5000 CL-M	20020036	All models

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure		Gas	bur	ner		Dual fu	el burner		trol
	in combustion chamber			Ye	llow	Flai	me (Standaı	rd)	pai	nels
	(mbar)		Мо	dula	ting		Two-stage	Modulating		
		М	echa	anica	al ca	m	-			
		RS 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	(1)	(1)	(1)	Riello 5000 CL-M	Riello 5000 TMR2
		20068027	20066706	20145938	20145936	(1)	(1)	(1)	20020036	07200123
PTO LOGO TV	8	•							•	
RTQ 4000 TK	8						•	•		•
PT0 1 TV	10		•						•	
RTQ 4500 TK	10						•	•		•
DTO FOOD TV	10			•					•	
RTQ 5000 TK	10						•	•		•
PTO COOD TV	10			•					•	
RTQ 6000 TK	10						•	•		•
DTO 7000 TV	12			•					•	
RTQ 7000 TK	12						•	•		•
RTQ 8000 TK	12				•				•	
nių outo ik	12						•	•		•
RTQ 9000 TK	11				•				•	
	11						•	•		•
RTQ 10000 TK	11					•			•	
	11						•	•		•
RTQ 11000 TK	12					•			•	
	12						•	•		•
RTQ 12000 TK	12					•			•	
	12						•	•		•
RTQ 14000 TK	14					•			•	
WI 000EI AII	14						•	•		•
RTQ 16000 TK	14					•			•	
	14						•	•		•
RTQ 18000 TK	16					•			•	
	16						•	•		•
RTQ 20000 TK	17					•			•	
= 0.000 IN	17						•	•		•

⁽¹⁾ For combination with large burners, please contact the pre-sales service.

Note: the gas burners must be completed with the gas train.

Note: light oil burners are equipped with light oil injectors.

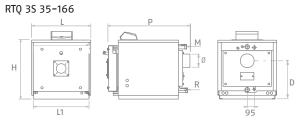
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Two flue gas passes steel jet burner boilers

RTQ 3S

Products up to 400 kW only for replacement, till 1^{st} January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

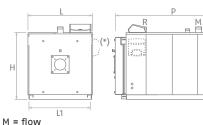


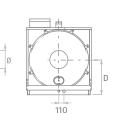


RTQ 3S 217-4000

R = return

(*) From RTQ 1100 3S to RTQ 4000 3S model





- Single-piece steel boilers
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range)

Description	H mm	L mm	P mm	L1 mm	D mm	M Ø	R Ø	ø mm	Net weight kg
RTQ 35 3S	605	605	880	560	310	1" 1/4	1" 1/4	139	137
RTQ 55 3S	605	605	1030	560	310	1" 1/4	1" 1/4	139	160
RTQ 70 3S	740	705	970	660	384	1" 1/2	1" 1/2	179	199
RTQ 91 3S	740	705	1120	660	384	1" 1/2	1" 1/2	179	225
RTQ 115 3S	905	805	1230	753	500	G2"	G2"	180	283
RTQ 166 3S	955	853	1405	803	525	G2"	G2"	180	355
RTQ 217 3S	1060	925	1580	875	525	G2"¹/2	G2"½	200	455
RTQ 255 3S	1060	925	1580	875	525	G2" ¹ / ₂	G2"½	200	473
RTQ 318 3S	1110	975	1810	925	550	G2" ¹ / ₂	G2"½	250	610
RTQ 349 3S	1110	975	1810	925	550	G2" ¹ / ₂	G2"½	250	610
RTQ 448 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 511 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 575 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 639 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 750 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 766 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 896 3S	1530	1360	2865	1310	755	DN125	DN125	400	1817
RTQ 1100 3S	1630	1450	3130	1400	820	DN125	DN125	400	2280
RTQ 1300 3S	1725	1535	3155	1485	865	DN125	DN125	450	2780
RTQ 1600 3S	1822	1610	3235	1555	900	DN150	DN150	500	3160
RTQ 2100 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4170
RTQ 2400 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4180
RTQ 2700 3S	2090	1865	3560	1895	1050	DN175	DN175	500	4826
RTQ 3000 3S	2162	1935	3670	1885	1080	DN175	DN175	500	5346
RTQ 3500 3S	2240	2040	4010	1990	1155	DN200	DN200	550	6195
RTQ 4000 3S	2270	2070	4260	2020	1170	DN200	DN200	600	6790

Provided with high-performance stainless steel turbulators ensuring wide exchange surface, in order to optimize the heat exchange and allow a homogeneous thermal load. The front door features an ambidextrous opening and is provided with a highly-insulating

mineral-wool double seal. Casing is made of stove-enamelled sheet. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

TECHNICAL DATA

Description	Powe	r - kW	Efficie	ncy - %	Notes	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn		
RTQ 35 3S	33.8	34.8	94.2	95.9	(1)	20025617
RTQ 55 3S	53.2	55.0	93.8	95.5	(1)	20025618
RTQ 70 3S	67.8	69.0	94.2	95.9	(1)	20025619
RTQ 91 3S	87.1	90.0	94.2	95.9	(1)(2)	20024200
RTQ 115 3S	109.7	115.0	95.8	95.1	(1)(2)	4032606.0
RTQ 166 3S	158.7	166.0	95.6	95.6	(1)(2)	4032607.0
RTQ 217 3S	206.8	217.0	95.3	96.3	(1)(2)	4032608.0
RTQ 255 3S	243.3	255.0	95.8	96.5	(1)(2)	4032609.0
RTQ 318 3S	303.4	318.0	95.6	96.5	(1)(2)	4032610.0
RTQ 349 3S	332.0	348.0	95.4	96.7	(1)(2)	4032611.0
RTQ 448 3S	427.4	448.0	95.4	96.7		4032613.0
RTQ 511 3S	487.5	511.0	95.4	96.7		4032614.0
RTQ 575 3S	548.6	575.0	95.4	96.7		4032615.0
RTQ 639 3S	609.6	639.0	95.4	96.7		4032616.0
RTQ 750 3S	713.8	749.0	95.4	96.7		20217457
RTQ 766 3S	730.8	766.0	95.4	96.7		4032617.0
RTQ 896 3S	854.8	896.0	95.4	96.7		20008436
RTQ 1100 3S	1049.4	1100.0	95.4	96.7		20012427
RTQ 1300 3S	1240.2	1300.0	95.4	96.7		20008435
RTQ 1600 3S	1526.4	1600.0	95.4	96.7		20016656
RTQ 2100 3S	2003.4	2100.0	95.4	96.7		20016657
RTQ 2400 3S	2289.6	2400.0	95.4	96.7		20018817
RTQ 2700 3S	2576.0	2700.0	95.4	96.7		20106515
RTQ 3000 3S	2860.0	3000.0	95.4	96.7		20106514
RTQ 3500 3S	3339.0	3500.0	95.4	96.7		20107462
RTQ 4000 3S	3816.0	4000.0	95.4	96.7		20107467

Maximum operating pressure 5 bar for RTO 35 3S - RTO 766 3S models.

Maximum operating pressure 6 bar for RTQ 896 3S - RTQ 4000 3S models.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	4031198
Burner flange	4031391

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 3S 90-2400	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 3S 448-4000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Gas products and oil products (models 35, 55 and 70) are only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013).

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Descripti	ion	Back-pressure in combustion							as b								Burner accessory	С	onti	ol b	oanel	S
		chamber	_					ow f	lam	e (St			_									
		(mbar)	_	T	wo :	stag	ge					odu		_								
										1	Mec	han	ical	can	1							
			RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	Extended head	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit
			3789111	3784703	3785103	3785303	3785503	3785813	3781623	3789611	3789711	3789811	3787623	3788411	20068343	20068356	3010443	20010820	4031069	4031064	4031067	20013035
PT0 / / 0 25		3.5	•															•			•	
RTQ 448 3S		3.5							•											•		•
DTO 511 35		4.2		•														•			•	
RTQ 511 3S		4.2							•											•		•
RTQ 575 3S		3.4			•													•			•	
KIQ 513 53		3.4								•										•		•
RTQ 639 3S		4.5			•													•			•	
		4.5								•										•		•
RTQ 750 3S		5.0				•												•			•	
		5.0									•									•		•
RTQ 766 3S		5.3				•												•			•	
		5.3									•									•		•
RTQ 896 3S		6.0				•												•			•	
		6.0									•									•		•
RTQ 1100 3S		3.3					•											•			•	
		3.3										•								•		•
RTQ 1300 3S		5.3					•											•			•	
		5.3										•								•		•
RTQ 1600 3S		4.7						•									•	•			•	
		4.7											•				•			•		•
RTQ 2100 3S		5.1												•						•		•
RTQ 2400 3S		7.6													•					•		•
RTQ 2700 3S		8.0													•				•			•
RTQ 3000 3S		6.5													•				•			•
RTQ 3500 3S		7.1														•			•			•
RTQ 4000 3S		8.0														•			•			•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure in combustion	_			Li	ght	oil t								Du	ıal fı	uel l	ourr	er	0 fl-	ma	Burner accessory		urn		(onti	ol p	anel
	chamber (mbar)						Ye	llow	fla	me ((Sta	nda	rd)						(Lo	w N	me 0x)	,		- 0	, -				
	(induit)		T	wo	stag	е		_		dula			Т	wo :	stag	ge	_			ting	_								
		_			-			Me	echa	nica	al ca	am	_		_		Me	cha	nica	al ca	ım		_			-			
																											Riellotech Clima Comfort	Riellotech Clima Comfort	
																										a	a Con	a Con	Two stage burner management kit
							ي										٦V	۸Z	×	×	×	lead	ge	ge	ge	Riellotech Prime	lima	Slima	Two stage burner management kit
		_	_	_	_	۲	RL 250 MZ TC	루	Ę	RL 100/M TL	RL 130/M TL	Σ					RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Burner flange	Burner flange	Burner flange	ach I	ech (ech (age b eme
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	250	RL 50/M TL	RL 70/M TL	100/	130/	RL 190/M TL	RLS 50	RLS 70	RLS 100	RLS 130	S 190	5 25(5 310	S 410	S 510	tend	rner	rner	rner	lot	lot	llot	o sta anag
		R	R	꿉	R	꿉	R	꿉	꿉	R	꿉	R	R	꿉	꿉	R	R	R	R	R	R	<u>X</u>	Bn	Bu	B	ž	Σ̈́	Š	ĚΕ
		m	m	m		m	0	70,	92:	-84	-87	31	05	86	66	00	61	72	90	60	12	98	5	969	318	320	69	49	25
		3474633	3475033	3475233	3475433	3475613	3470010	20166504	20166476	20166484	20166487	20169231	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097869	4031395	20076596	20076618	20010820	4031069	4031064	4031067
	3.5	98	76	36	36	35	36	7	7	70	70	20	7	7	7	20	70	70	50	70	50	50	7	70	70	9	Ť	7	±
RTQ 448 3S	3.5							•															•			H		•	
(111 21	3.5												•									•				•			•
	4.2	•																								•			•
RTQ 511 3S	4.2							•															•					•	
	4.2	_												•									_			•			•
DTO EZE 20	3.4	•			-				•														•			•		•	•
RTQ 575 3S	3.4								Ť					•												•		Ť	•
	4.5		•																							•			•
RTQ 639 3S	4.5								•																			•	
	4.5													•												•			•
	5.0			•																						•			•
RTQ 750 3S	5.0									•																_		•	
	5.0 5.3			•	-									•												•			•
RTQ 766 3S	5.3									•																Ť		•	
	5.3													•												•			•
	6.0			•																						•			•
RTQ 896 3S	6.0									•																		•	
	6.0														•											•			•
DTO 4400 25	3.3				•		-				•			_												•		•	•
RTQ 1100 3S	3.3										-				•											•		_	•
	5.3				•										Ė											•			•
RTQ 1300 3S	5.3										•																	•	
	5.3															•										•			•
	4.7					•																				•			•
RTQ 1600 3S	4.7											•														_		•	
	4.7						•										•									•			•
RTQ 2100 3S	5.1 5.1						Ť					•														-		•	
	5.1																	•								•			•
	7.6																									•			•
RTQ 2400 3S	7.6																											•	
	7.6																		•					•		•			•
DTO 2700 25	8.0																									•			•
RTQ 2700 3S	8.0				-		-												•					•		•	•		•
	6.5																		_					<u> </u>		•			•
RTQ 3000 3S	6.5																			Н							•		
	6.5																		•					•		•			•
	7.1																									•			•
RTQ 3500 3S	7.1																										•		
	7.1																			•					•	•			•
25 0000 DE	8.0																									•	•		•
RTQ 4000 3S	8.0					-	-														•			-	•		_		•

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion						Ye	llow	ı fla	me	(Sta	Gas nda		rner	-				Blu	e fla	ame	(Lo	w N	0x)	Burner accessory		ner ssory	0	Cont	rol _l	oane	ls
	chamber (mbar)			Tvv	o sta	age								latir	ng				-		age			_								
					_							Mecl			_					-			_	_								
																													Comfort	Comfort		+121
		RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	BS1	BS2	BS3	BS1D	BS2D	BS3D	Extended head	Extended head	Extended head	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner	nianiagement nit
		3789011 RS	3789111 RS	3784703 RS	3785103 RS	3785303 RS	3785503 RS	3785813 RS	3788711 RS	3788811 R9	3781623 RS	3789611 R	3789711 RS	3789811 R	3787623 RS	3788411 R9	20068343 RS	20068356 RS	3761158 BS	3761258 B	3761316 BS	3761558 BS	3761658 BS	3761716 BS	3010443 E>	3001007 E>	3001009 E>	20010820 Ri	4031069 Ri		4031067 Tv	30013000
RTQ 35 3S	0.4																		•									•	Ė	Ĺ		Ė
	0.4																			•		•						•			•	+
RTQ 55 3S	0.9			-	-			-	-		-				_				H	•	Н		•			•		•	-	-	•	+
	0.9																		Н	•	Н		-			•		•			Ť	+
RTQ 70 3S	0.6																		Н	_	Н		•	\dashv		•		•			•	+
	2.0																				•					-	•	•				+
RTQ 91 3S	2.0																		Н		Н			•			•	•			•	+
DT0 467 27	1.5																		Н		•						•	•				T
RTQ 115 3S	1.5																							•			•	•			•	Т
DTO 466 25	1.3																				•						•	•				Т
RTQ 166 3S	1.3																							•			•	•			•	
DTO 217 25	2.2	•																										•			•	
RTQ 217 3S	2.2								•																					•		•
RTQ 255 3S	2.8	•																										•			•	
MIQ 200 00	2.8								•																					•		•
RTQ 318 3S	3.2	•																										•			•	L
510 55	3.2									•																				•		•
RTQ 349 3S	3.9		•																Ш									•			•	\perp
	3.9									•																				•		4
RTQ 448 3S	3.5		•																Ш									•			•	1
	3.5			ļ.,							•																	-		•		•
RTQ 511 3S	4.2			•				_			_																	•			•	+
	4.2				_						•																	-		•	_	•
RTQ 575 3S	3.4				•																							•			•	-
	3.4 4.5			-	•			-				•							Н		Н		Н					•		•	•	÷
RTQ 639 3S	4.5				-							•																<u> </u>		•	_	•
	5.0					•		-				Ť		H					Н		Н		Н					•		-	•	ť
RTQ 750 3S	5.0					Ė							•						Н		Н							Ť		•	-	-
	5.3					•					\vdash		Ė						Н		Н		H					•		ŕ	•	ť
RTQ 766 3S	5.3												•						Н		Н		Н							•		•
	6.0					•													Н		Н							•			•	t
RTQ 896 3S	6.0												•						П		П									•		•
DTO 4600 00	3.3						•												П		П							•			•	T
RTQ 1100 3S	3.3													•																•		•
DTO 1200 25	5.3						•																					•			•	Γ
RTQ 1300 3S	5.3													•																•		•
RTQ 1600 3S	4.7							•																	•			•			•	Ļ
	4.7														•	_			Н		Н				•					•		1
RTQ 2100 3S	5.1															•			Н		Н									•		Ľ
RTQ 2400 3S	7.6																•		Н		Н									•	-	1
RTQ 2700 3S	8.0							-									•		H		H							-	•			<u>'</u>
RTQ 3000 3S RTQ 3500 3S	6.5			-	H			-	H		H				_		•		H		Н		Н					-	•	-		+
KIO 3500 35	7.1																	•											•			1

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure in combustion	L								1/		_			rne		۱۱.		_			_			4	Bu	rne	r ac	ces	sory	′		urn ang		C	onti	ol p	oane
	chamber (mbar)	H	One	e st	age					Ye	llov Tv	/ †la			tan	dar	d)	_			Mod	ula	ting	J	-									,				
	(IIIDai)	-	0111	_	uge	_						-	Lug					_	_			nica	_		-													
																																			9	a Comfort	a Comfort	er it
		RG1NR	RG2	RG3	RG5S	RL 34/1 MZ TL	RG2KD	RG3D	RG4D	RG5D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 1907 M IL	Extended head	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit					
		3736405	3737750		П	3470111	3738100	3739450	3739750	3739850			3474633	3475033	3475233	3475433	3475613	Т	20166495	20166499	20166504	Т	20166484	20166487	\top		†		3001068	3000981	3010426	4031198	4031395	4031391	20010820	П	4031064	4031067
RTQ 35 3S	0.4	•																									•								•			
RTQ 55 3S	0.9		•																						•										•			
כל כל קוזו	0.9						•																												•			•
RTQ 70 3S	0.6						•																		\perp		L								•			•
RTQ 91 3S	2			•					Ш																1	•	<u> </u>								•	Ш		
	2							•	Ц													Ш	Ц		_	•	<u>'</u>		L	L			Ц	Ш	•	Ш		•
RTQ 115 3S	1.5							•																	+	_	_								•	Ш		•
	1.3				•			Ц	Ш													Ш			+	+	+		L					Щ	•	Ш		
RTQ 166 3S	1.3								•		_								_					4	+	+	-	•							•	Н		•
	1.3		L	L				Н		_									•						+	+	+	-	_			•			_	Н	•	
	2.2				•							4	_												+	+	+		•					•	•			
RTQ 217 3S	2.2			H	H			Н		•		-							_	-					+	+	+	-		•				•	•	Н		•
	2.2			H	•					-		-	_	_					•						+	+	+		•					•	•	Н	•	
DTO 255 26	2.8			H	•			Н			•														+	+	+		•		•			_	•	Н		•
RTQ 255 3S	2.8			H	H			Н	Н	-	-	-	-	_					•						+	+	+			H	_				_	Н	•	-
	2.8 3.2			H	H	•		Н		-				_				H	_			Н			+	+	+					H		Н	•	Н	•	
DTN 219 25	3.2					_		Н	Н		•														+		+				•				•	Н		•
RTQ 318 3S	3.2			H	Н			Н		-	+	-		-				H		•		Н			+	+	+				Ť	H		Н	Ť	Н	•	
	3.9							Н	Н	-		•								-					+	+	+								•	Н	_	•
RTQ 349 3S	3.9								Н											•					+											Н	•	
	3.5			H				Н	Н			_	•	_											+	+	+							Н	•	Н		•
RTQ 448 3S	3.5																				•				+	+	+						•				•	
	4.2							Н					•												+	+	+								•	Н		•
RTQ 511 3S	4.2																				•				$^{+}$	+	$^{+}$						•				•	
	3.4												•																				•		•			•
RTQ 575 3S	3.4																					•			†		†										•	
DT0 (00	4.5				П				П					•											T	\top	\top								•	П		•
RTQ 639 3S	4.5								П													•			Ť											П	•	
DTO 750 35	5.0														•																				•			•
RTQ 750 3S	5.0																						•														•	
DTO 766 35	5.3														•																				•			•
RTQ 766 3S	5.3									I		┨											•		I												•	
RTQ 896 3S	6														•																				•			•
נכ ספט אייי	6						Ĺ														Ĺ		•		Ĺ		L								Ĺ		•	
RTQ 1100 3S	3.3							Ш	Ш							•									1										•	Ш		•
	3.3								Ш															•	1	1	_									Ш	•	
RTQ 1300 3S	5.3								Ш							•									1	1	_								•	Ш		•
	5.3								Ш															•	1	_	_									Ш	•	
RTQ 1600 3S	4.7								Ш								•								1	_	_								•	Ш		•
	4.7							Ц	Ш															•	1	_								Ш		Ш	•	
RTQ 2100 3S	5.1							Ш	Ш							Ш	Ш	•				Ш	Ш		_								Ш	Ш	•	Ш		•
4 =100 33	5.1																							•											L		•	

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure		_		Du	al f	uel	burr	ner					urne			ner		
	in combustion chamber		_		llow						e fla		aco	ess	ory	flan	ige	par	ıels
	(mbar)				stag		-,		Мос	_	ting	_							
								Ме	echa	nic	al ca	am							
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Extended head	Extended head	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097868	20097869	20097840	20076596	20076618	20010820	4031067
RTQ 217 3S	2.2	•													•			•	•
RTQ 255 3S	2.8	•													•			•	•
RTQ 318 3S	3.2		•										•					•	•
RTQ 349 3S	3.9		•										•					•	•
RTQ 448 3S	3.5			•										•				•	•
RTQ 511 3S	4.2				•													•	•
RTQ 575 3S	3.4				•													•	•
RTQ 639 3S	4.5				•													•	•
RTQ 750 3S	5.0				•													•	•
RTQ 766 3S	5.3				•													•	•
RTQ 896 3S	6.0					•												•	•
RTQ 1100 3S	3.3					•												•	•
RTQ 1300 3S	5.3						•											•	•
RTQ 1600 3S	4.7							•										•	•
RTQ 2100 3S	5.1								•									•	•
RTQ 2400 3S	7.6									•						•		•	•
RTQ 2700 3S	8.0									•						•		•	•
RTQ 3000 3S	6.5									•						•		•	•
RTQ 3500 3S	7.1										•						•	•	•
RTQ 4000 3S	8.0											•			П		•	•	•

NOTE: the light oil burners must be completed with the light oil nozzles.

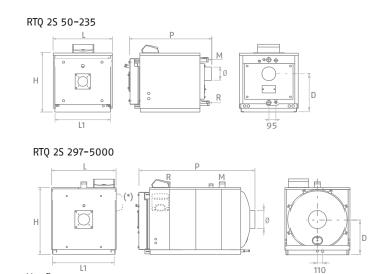
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

TERMINAL UNITS

Two flue gas passes steel jet burner boilers

RTQ 2S

Products up to 400 kW only for replacement, till 1^{st} January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.







- Single-piece steel boilers, that can be matched with any fuel jet burners
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range).

Description	H mm	L mm	L1 mm	P mm	D mm	Ø mm	Net weight kg
RTO 50 2S	605	605	560	885	325	139	127
RTQ 64 2S	605	605	560	1035	325	139	160
RTQ 82 2S	740	705	660	970	384	179	199
RTQ 105 2S	740	705	660	1120	384	179	225
RTQ 154 2S	790	805	753	1220	500	180	288
RTQ 203 2S	840	853	803	1400	525	180	382
RTQ 235 2S	840	853	803	1400	525	180	382
RTQ 297 2S	980	925	875	1550	525	200	458
RTQ 323 2S	980	925	875	1550	525	200	458
RTQ 357 2S	980	925	875	1550	525	200	478
RTQ 418 2S	1030	975	925	1770	550	250	630
RTQ 467 2S	1030	975	925	1770	550	250	630
RTQ 537 2S	1030	975	925	1945	550	250	731
RTQ 597 2S	1030	975	925	1945	550	250	726
RTQ 715 2S	1210	1150	1100	2115	655	300	953
RTQ 837 2S	1210	1150	1100	2210	655	300	1037
RTQ 920 2S	1280	1220	1170	2380	690	300	1237
RTQ 1020 2S	1335	1285	1235	2515	715	450	1530
RTQ 1250 2S	1430	1360	1310	2835	755	400	2257
RTQ 1500 2S	1530	1450	1400	2965	820	400	2570
RTQ 1700 2S	1610	1535	1485	3125	865	450	2841
RTQ 2020 2S	1680	1605	1555	3115	900	450	3340
RTQ 2320 2S	1750	1655	1605	3210	925	450	3725
RTQ 2620 2S	1925	1800	1750	3455	1015	450	4667
RTQ 2920 2S	1995	1865	1815	3560	1050	500	4826
RTQ 3200 2S	1996	1865	1815	3611	1050	500	4905
RTQ 3500 2S	2055	1935	1885	3670	1080	500	5346
RTQ 4000 2S	2140	2040	1990	4004	1155	550	6195
RTQ 4500 2S	2170	2070	2020	4254	1170	600	6790
RTQ 5000 2S	2355	2230	2180	4521	1250	650	7965

M = flow

R = return



Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and flame-inversion. Equipped with removable high-efficiency stainless steel turbulators ensuring an optimized heat exchange and a homogeneous thermal load.

The front door features an ambidextrous opening and is provided with a mineral-wool double seal. Casing is made of stove-enamelled sheet.

The control panel should be ordered separately.

- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control boards.

TECHNICAL DATA

Description	Powe	r – kW	Efficier	ncy - %	Code
	Output useful 80°/60° max	Furnace input max	Useful Pn (80°/60°)	Useful 30% Pn	
RTQ 50 2S	50	54.2	92.2	95.1	20136573
RTQ 64 2S	64	69.3	92.3	95.3	20136574
RTQ 82 2S	82	88.8	92.3	95.4	20136575
RTQ 105 2S	105	113.6	92.4	95.7	20136577
RTQ 154 2S	154	166	92.9	91.4	20136578
RTQ 203 2S	203	217	93.4	-	20136579
RTQ 235 2S	235	255	92.3	92.8	20136580
RTQ 297 2S	297	318	93.4	-	20136581
RTQ 323 2S	323	348	92.8	93.3	20136582
RTQ 357 2S	357	384	92.9	93.3	20136583
RTQ 418 2S	418	448	93.3	-	20136584
RTQ 467 2S	467	500	93.4	93.3	20136585
RTQ 537 2S	537	575	93.4	-	20136587
RTQ 597 2S	597	639	93.4	93.3	20136588
RTQ 715 2S	715	766	93.4	-	20136589
RTQ 837 2S	837	896	93.4	93.3	20136590
RTQ 920 2S	920	990	92.9	93	20136592
RTQ 1020 2S	1020	1100	92.7	92.9	20136594
RTQ 1250 2S	1250	1338	93.4	93.3	20136595
RTQ 1500 2S	1500	1606	93.4	93.3	20136598
RTQ 1700 2S	1700	1820	93.4	93.3	20136599
RTQ 2020 2S	2020	2162	93.4	93.3	20136600
RTQ 2320 2S	2320	2485	93.4	93.3	20136601
RTQ 2620 2S	2620	2830	92.5	92.8	20136602
RTQ 2920 2S	2920	3150	92.7	92.9	20136603
RTQ 3200 2S	3200	3450	92.7	92.9	20136605
RTQ 3500 2S	3500	3780	92.7	92.9	20136606
RTQ 4000 2S	4000	4315	92.7	92.9	20136607
RTQ 4500 2S	4500	4854	92.7	92.9	20136608
RTQ 5000 2S	5000	5394	92.7	92.9	20136609

Maximum operating pressure 6 bar for RTQ 2S 50 - 5000 models.

ACCESSORIES

RIELLO

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	20043900
Burner flange	20047680
Burner flange	4031188
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	20067631
Burner flange	4031196
Burner flange	20043899
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 2S 50-2620	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 2S 715-5000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion										burr			_								В	urn	er fl	ang	ţe		C	ont	rol r	ane	S
	chamber	000			Tree			Yell	ow 1	flam	ne (S	tan			lla	ting																
	(mbar)	0ne stage			IVV	o st	age —							MOC	ıuıa	ung																
		-				-				L			Мє	cha	nic	al ca	m										_					
		RS 44/1 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit						
		3788611 RS	3789111 RS	3784703 RS	3785103 RS	3785303 RS	3785503 RS	20044637 RS	20030087 RS	3788811 RS	3781623 RS	3789611 RS	378 <i>9</i> 711 RS	20044639 RS	20052616 RS	3788411 RS	20068343 RS	20068356 RS	20068027 RS	20066706 RS	20043900 Bu	20047680 Bu	4031188 Bu	4031395 Bu	20076596 Bu	20076618 Bu	20067631 Bu	20010820 Rie	4031069 Rie	4031064 Rie	4031067 Tw	20013035 3-1
	2.9	•																						•		L		•				L
RTQ 418 2S	2.9		•																					•		\vdash		•			•	L
	2.9									•														•		<u> </u>	_	_		•	_	•
RTQ 467 2S	3.3			•		_				_	•													•		-	_	•		•	•	•
	3.3				•	-				-	•				_								•	•		⊢	_	•		-	•	Ľ
RTQ 537 2S	3.0				-	-				-		•			_								•			├	-	_		•	Ť	•
	5.1				•					_		-											•			\vdash	_	•			•	
RTQ 597 2S	5.1											•											•			\vdash				•		•
	4.7				•																		•			Т		•			•	
RTQ 715 2S	4.7												•										•			Т				•		•
DT0 027 25	8.1					•																	•			Г		•			•	
RTQ 837 2S	8.1												•										•							•		•
RTQ 920 2S	4.6					•																	•					•			•	
	4.6												•										•			L				•		•
RTQ 1020 2S	4.6					•															•					L	L	•	L		•	L
	4.6												•								•					L	L	L	L	•		•
RTQ 1250 2S	5.8						•														•					L	L	•	L		•	L
	5.8					-		_			-			•							•					L	_	_	_	•		•
RTQ 1500 2S	5.4							•						_							•					H		•		_	•	_
	5.4													•							•	•				H	H	•	-	•	•	•
RTQ 1700 2S	7.2								•						•							•				-	H	_		•	•	•
	4.8								•						Ť							_				-	•	•		Ť	•	Ť
RTQ 2020 2S	4.8								-						•											H	•	-		•	-	•
RTQ 2320 2S	4.2															•										\vdash	•			•		•
RTQ 2620 2S	6.0																•								•	\vdash				•		•
RTQ 2920 2S	6.3																•								•	\vdash			•			•
RTQ 3200 2S	7.9																	•							•				•			•
RTQ 3500 2S	7.9																	•							•	Т			•			•
RTQ 4000 2S	7.7																		•							•			•			•
RTQ 4500 2S	8.0																			•						•			•			•
RTQ 5000 2S	7.9																			•						•			•			•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure in combustion	L			Li	ght	oil t			014.	FI a m-	0 /0	+	42-		ual f	fuel	bur	ner			urne esse			В	urn	er fl	ang	e		(onti	rol p	ane	S
	chamber (mbar)	_	7	wo	star	7P			Yell		latiı		can	uaro		o st	age		Modu	lating			,												
	(IIIDal)	-				ge				_		_			IVV		age		_	anical															
					-				Mec	han	ical	can	1			-			ca						_										
																					_	_	_								e.	a Comfort	a Comfort	ner <it< th=""><th>tion kit</th></it<>	tion kit
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Extended head	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit						
		3474633	3475033 F	3475233 F	3475433 F			20166499 F	20166504 F	20166476 F	20166484 F	20166487 F	20169231 F	20147803 F	20147805 F	20147798 F	20147799 F	20147800 F	20159361 F	20145372 F	20097868 E	20097869 E	3010422 E	20043900	20047680 E	4031188 E	4031196 E	4031395 E	20076596	20067631 E	20010820 F	4031069 F	4031064 F	4031067	20013035
	2.9	•											<u> </u>												-	_	_	•			•		Ť	•	Ė
RTQ 418 2S	2.9							•																				•					•		•
	2.9													•							•							•			•		П	•	Г
	3.3	•																										•			•		П	•	
RTQ 467 2S	3.3								•																			•					•		•
	3.3														•							•						•			•		П	•	
	3	•																										•			•		П	•	
RTQ 537 2S	3								•																			•					•		•
	3															•										•					•			•	
	5.1		•																							•					•			•	
RTQ 597 2S	5.1									•																•							•		•
	5.1															•										•					•			•	
	4.7		•																							•					•			•	
RTQ 715 2S	4.7									•																•							•		•
	4.7															•										•					•			•	
	8.1			•																						•					•			•	
RTQ 837 2S	8.1										•															•							•		•
	8.1																•										•				•			•	
	4.6			•																						•					•			•	
RTQ 920 2S	4.6										•															•							•		•
	4.6																•										•				•			•	
	4.6			•																				•							•			•	
RTQ 1020 2S	4.6										•													•									•		•
	4.6																•							•							•			•	
	5.8				•																			•							•		Ш	•	
RTQ 1250 2S	5.8											•												•									•		•
	5.8				L													•						•							•			•	
	5.4					•																			•						•			•	
RTQ 1500 2S	5.4											•												•									•		•
	5.4				L														•						•						•		Ш	•	
	7.2				L	•																			•						•		Ш	•	
RTQ 1700 2S	7.2												•								Ш				•								•		•
	7.2					-													•						•					_	•			•	
DTO COOL	4.8					•							-																	•	•			•	_
RTQ 2020 2S	4.8												•																	•	_		•	_	•
	4.8					-														•										•	•		\vdash	•	
RTQ 2320 2S	4.2						•																•							•	•			•	_
	4.2					-	<u> </u>																						-		-		•		•
RTQ 2620 2S	6.0						•																						•		•			•	L

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion	_										Gá	as b	urr	er							D.		El e :	_			Е	Buri	ner	fla	nge	e			Со	ntro)l pa	anel
	chamber								Yello	w f	lam	ne (Star	nda	rd)								ue 1																
	(mbar)	0r				Τv	/O S	tag	ge						Мо	dula	atiı	ng					ne																
		sta -	-	-			_				$^{+}$			Me	echa	anio	cal	can	1			Sta	age -	sta -	_														
																				7 2																ne	a Comfort	ia Comfort	Kit
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 IL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	KS 310/M MZ FSI	RS 410/M MZ FS1	KS 510/M M2 FS	BS2	BS3	BS2D	BS3D	Burner flange	Burner flange	Burner flange	Durner Hange	Durner Hange	Builler Hallge	Purpor flange	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	management kit
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	7008907	3761258	3761316	3761658	3761716	20043899	20043900	20047680	4021100	407100	4051192	4051190	4031395	20076618	20067631	20010820	4031069	4031064	4031067
RTQ 50 2S	0.3								_	1	L							1	4		1	•				4	4		1	Ţ	1	Ţ	I	L	П	•	\exists	4	\perp
	0.3	Н		Н		4			+	+	+	+	-	H	\perp	_	_	+	+	+	+	+		•	\dashv	+	+	+	+	+	+	+	+	+	H	•	\dashv	+	•
RTQ 64 2S	0.8	Н	Н	Н		\dashv			+	+	+	+	-	H	+	+	\dashv	+	+	+	+	•		•	-	+	+	+	+	+	+	+	+	+	Н	•	+	+	•
	0.8	Н	H	Н		\dashv	-		+	+	+	+		H	+	+	+	+	+	+	+	+	•	•	\dashv	•	+	+	+	+	+	+	+	+	H	•	\dashv	+	-
RTQ 82 2S	0.8	Н		Н		-	\dashv		+	+	+	+	H	H	+	+	+	+	+	+	+	+	٠		•	-	+	+	+	+	+	+	+	+	Н	•	+	+	•
	1.4	Н	Н	H		\dashv		-	+	+	+	+	\vdash	H	\dashv	+	+	+	+	+	+	+	•	Н	_	•	+	+	+	+	+	+	+	+	Н	•	+	+	+
RTQ 105 2S	1.4		Н	H		\dashv			+	+	+	+	\vdash	H	+	+	+	+	+	+	+	+	-	Н	•	-	+	+	+	+	+	+	+	+	Н	•	+	+	•
	1.6	Н		Н		_	\dashv		+	+	+	+	\vdash	Н	\dashv	+	+	+	+	+	+	+	•	Н	-	+	+	-		+	+	+	+	+	Н	•	+	+	+
RTQ 154 2S	1.6		Н	Н		+			+	+	+	+		Н	\dashv	+	\dashv	+	+	+	+	+	Ť	Н	•	+	+		-	+	+	+	+	+	H	•	+	+	•
	1.8	•		Н		_	\dashv		+	$^{+}$	t	$^{+}$	H	Н	\forall	+	\forall	+	+	+	$^{+}$		Н	Н		+	+	+	+	$^{+}$	•	,	+	+	Н	•	+	+	+
RTQ 203 2S	1.8	Н		•		\dashv			+	+	+	+	Н	Н	\dashv	+	\dashv	+	+	+	$^{+}$					+	+	+	+	+	•	+	+	+	\vdash	•	+	+	•
4 203 25	1.8			Н					+	+	•	+		Н		+	\dashv	+	+	+	+					+		+	+	$^{+}$	1	-	+	+	Н	Н	+	•	٦,
	2.7	•		Н					\forall	$^{+}$	t	†		Н	\exists	$^{+}$	7	$^{+}$	+	+	$^{+}$					+	+		$^{+}$	$^{+}$	1	•	+	+	Н	•	+	+	+
RTQ 235 2S	2.7			•					\top	$^{+}$	t	t		Н		\top	\forall	\top	Ť		†							+	$^{+}$	†	•	•	+	\top	Н	•	\top	\top	•
	2.7			П					7	T	T	•		П		\top	7	\top	1		†								T	T	•	•	\top		П	П	\top	•	
	3.5	•		П					\top	Ť	T	T	Т	П		\top	\exists	\top	Ť		Ť		Т	П		\top	1	1	Ť	•	•	†	\top	\top	П	•	\top	\top	\top
RTQ 297 2S	3.5			•										П		\top		\top	†					Н		\neg			$^{+}$	•	•	+	\top	\top	П	•	\top	\top	•
•	3.5	П		П					\top	Ť	T	T	•	П	Т	\top	\forall	\top	1	T	Ť		Т	П		\top			T	•	•	T	\top	\top	П	П	T	•	
	3.9		•	П						T				П					T										T	•	•		T	Т	П	•	T	T	\top
RTQ 323 2S	3.9			П	•				\top	†	T	T		П		\top	\exists	\top	Ť		T							1	\top	•	•	T	T	Т	П	•	T	T	•
-	3.9	П		П						T	T	•		П			\exists	T	T	T	T		П	П				T	T	•	•	Т	T	Т	П	П	T	•	-
	4.1	П	•	П					\top	T	T	T	Г	П		T	7	T	T	T	T		Г			\top		T	T	T	T	•	•	Т	П	•	Т	T	
RTQ 357 2S	4.1				•																			П								•	•	Т	П	•	П	T	•
	4.1											•																				•	•		П		П	•	-
	2.9		•																													•	•			•			
RTQ 418 2S	2.9				•														Ī										ſ			•	•	L		•	\prod		•
	2.9											•																				•	•					•	-
RTQ 467 2S	3.3					•																										•				•			•
	3.3		Ш	Ш						_			•	Ш			_	_	_		_			Ш					_	_	_	•		L	Ш	Ш		•	_ •
RTQ 537 2S	3.0			Ш			•																						•	1			\perp	\perp	Ш	•			•
	3.0	Ш		Ш					_	_				•		4	_	4	4		4	4				_			•	+	1	1	\perp	_	Ш	Ш	_	•	•
RTQ 597 2S	5.1	Ш		Ш		_	•		4	+	-	-	L	L	_	4	4	4	1	4	+					_	4	_	•	+	+	+	+	_	Ш	•	_	-	•
	5.1	Ш		Ш		_	_		_	+	+	-		•	_	4	_	4	4	4	+	-		Ш		_	_	_	•	+	+	\perp	+	\perp	Ш		_	•	•
RTQ 715 2S	4.7	Н		H		_	•	_	+	+	+	+	H	H		+	4	+	1	+	+	+			_	+	4	+	•	+	+	+	+	+	Н	•	_	-	•
	4.7	Н		H		-		_	+	+	+	+	H	H	•	+	+	+	+	+	+	+			-	+	-	+	9	+	+	+	+	\vdash	Н		\dashv	•	- 1
RTQ 837 2S	8.1	Н		H		-	-	•	+	+	+	╁	H	H		+	+	+	+	+	+	+	H		-	+	+	+	9	+	+	+	+	+	Н	•	\dashv	_	•
	8.1	Н	Н	Н		-	\dashv	_	+	+	+	+	-	H	•	+	\dashv	+	+	+	+	+		Н	-	+	+	+	9	+	+	+	+	+	Н		\dashv	•	•
RTQ 920 2S	4.6	Н	H	Н	H	-		•	+	+	+	+	-	H		+	-	+	+	+	+	+		Н	\dashv	+	4	+	9	+	+	+	+	+	H	•	\dashv	_	•
	4.6	Н	Н	Н		_	-	•	+	+	+	+	-	H	•	+	4	+	+	+	+	+		Н	_	+		+	-	+	+	+	+	+	Н		\dashv	•	•
RTQ 1020 2S	4.6	Н	H	H		-		•	+	+	+	+	-	H		+	4	+	+	+	+	+		Н	-	-	•	+	+	+	+	+	+	+	H	•	\dashv	-	•
	4.6 5.8	Н	Н	Н	\vdash	4	\dashv			+	+	+	\vdash	Н	•	+	+	+	+	+	+	+	H	Н	\dashv	\rightarrow	•	+	+	+	+	+	+	+	H		\dashv	•	•
	5 8					- 1			•		1		1		- 1					- 1							•	- 1					- 1		1 1	•	.		•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

RIELLO

Description	Back-pressure												Ga	s b	urr	ıer														Вι	ırn	er f	lan	ge				Cor	ntro	ol p	anels	5
	in combustion chamber								Yel	low	/ fla	am	e (S	tar	ıda	rd)										ame IOx)	!															
	(mbar)		ne			Tv	vo :	sta	ge						_	Мо	du	lati	ng					0n	e ·	Two																
		_	age -	-			-	_								ech	an	ica	ca	m			7	sta	ge s	tage -	-															
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	BS2	BS3	BS3D	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Iwo stage burner management kit 3-point modulation kit	כבלים וווסממומים וווירן										
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	3761258	3761316	3761716	90043899	20043900	20047680	4031186	4031188	4031192	4031198	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	COOLINDS
RTQ 1500 2S	5.4									•																		•										•			•	_
KIŲ 1500 25	5.4																•											•												•	•	,
RTQ 1700 2S	7.2										•																		•									•			•	_
NIQ 1700 23	7.2																	•											•											•	•	,
RTQ 2020 2S	4.8										•																										•	•			•	
MIQ 2020 23	4.8																	•																			•			•	•	•
RTQ 2320 2S	4.2																		•																		•			•	•	•
RTQ 2620 2S	6.0																			•															•					•	•	,
RTQ 2920 2S	6.3																			•															•				•		•	,
RTQ 3200 2S	7.9																				•													П	•				•		•	,
RTQ 3500 2S	7.9																				•													П	•			П	•		•	,
RTQ 4000 2S	7.7														П				П			•			T	T			T					П		•			•		•	,
RTQ 4500 2S	8.0														П				П				•		T	T			T					П		•		\Box	•		•	,
RTQ 5000 2S	7.9				Γ										П								•		\top	T	T	T	T	Γ	Т			П		•		\top	•		•)

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure in combustion										t oil												ırner				Bur	ner	fla	nge				C	ontr	ol p	oane	ls
	chamber	_		_				Υ			ame	(Sta	and	ard))			_			_	dCC	essoi	у														
	(mbar)	0	ne	sta	ge	_			Tw	o st	age				H		4od		_	_	-																	
		-		_						_					Н	ме	cha	HIC	ai C	am				+									\vdash	_				Т
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				'n	RL 34/1 MZ	۵	ب	RL 34 MZ TL	RL 44 MZ	RL 50 IL	RI 100 TI	RL 130 TL	RL 190 TC	RL 250 MZ	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	pue	ande	ם ב	ner ner	ner	lote	lote	lote	sta	in.							
		RG2	RG3	RG4S	R.3	RG3D	RG4D	RL 3	RL 4	독 일	R 7	RL1	R1	RL 2	RL 2	F.	R	RL 7	RL 1	RL1	RL 1	Exte	EXT	ב ב	Bur	Bur	Bur	Bur	Bur	Bur	Bur	Bur	Bur	Riel	Riel	Riel	Two mai	2.5
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		3737750	3739300	3739650	3470111	3739450	3739750	3470211	3470311	3474633	3475033	3475433	20011008	3470010	20166495	20166499	20166504	20166476	20166484	20166487	20169231	3000964	3000965	2000	00654002	4031186	4031188	4031192	4031196	4031198	4031395	20076596	20067631	20010820	4031069	4031064	4031067	20013035
RTQ 50 2S	0.3	•					П			Ť					П							•		Ť	\top							П	П	•				T
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RTQ 203 2S	1.8				۲		Н	•	+	+	+	+			Н		Н				Н		+	+	+	•				_			Н	•	H	\dashv	•	H
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RTQ 235 2S	2.7						П	•		\dagger					П		П				П		\dagger	\dagger	+					•		П	П	•	П	\exists	•	T
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RTQ 467 2S	3.3						Н			t		+			Н		•							$^{+}$	$^{+}$						•	П	П			•		•
	3.0		Т	Т			П		1	•		T	Т		П		П						\top	Ť	T						•	П	П	•	П		•	Г
RTQ 537 2S	3.0									T					П		•							T	T						•	П	П			•		•
DTO E07 36	5.1									•	•																•							•			•	
RTQ 597 2S	5.1																	•									•									•		•
RTQ 715 2S	4.7						Щ			•	•				Ш		Ц				Ц		_		1		•					Ш	Ш	•	Ш		•	L
	4.7	L					Ш		4	+	+	-			Ш		Ш	•			Ш		4	1	+	-	•					Ш	Ш	_	Ш	•	_	•
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	8.1		\vdash				Н		+	+		+	-		Н		Н		•		Н		+	+	+	+	•					Н	Н	•	\vdash	•	•	•
RTQ 920 2S	4.6 4.6		-				Н	\dashv	+	+	-	+	-		H		Н		•		Н		+	+	+	-	•					H	Н	_	H	•	_	•
	4.6						Н		+	+	•	+			Н		Н		_		Н		+	+	•	+	+						Н	•	H	-	•	۲
RTQ 1020 2S	4.6						Н		+	+	Ť				Н		Н		•		Н		+	+	•	+						Н	Н		H	•		•
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RTQ 1250 2S	5.8						П								П		П			•	П			1	•							П	П		П	•		•
DTO 1500 25	5.4												•												•									•			•	
RTQ 1500 2S	5.4									I										•			I	•	•										П	•		•
RTQ 1700 2S	7.2		L			Ĺ	Ш						•		Щ	L					Ш			Ĺ	•	_		L				Ш	Ш	•	Ш	\Box	•	Ĺ
9 11 30 23	7.2						Ш		_	1	_				Ш		Ш				•		_	_	•	<u> </u>						Ш	Ш		Ш	•		•
RTQ 2020 2S	4.8						Щ		_	4	-	-	•		Ш		Щ				Ш		_	1	_							Ш	\vdash	•	Ш	_	•	L
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RTQ 2320 2S	4.2						Н		4	+	+	-		•	Н		Ш				Н		-	•	+	+						H	•	_	Н	_	•	L
RTQ 2620 2S	6.0													•																		•		•		_	•	L

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

Description	Back-pressure			Dι	ıal f	uel	bur	ner			ner			Bur	ner	flar	nge			Con	
	in combustion chamber						(Sta	ndard)	acce	ssory									pan	nels
	(mbar)		T۱	NO S	stag	е			lating												
		<u></u>		_				Mecha ca					_								
										p	p		a	a.	a.	a.	a.		41	me	rner . kit
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Burner flange	Riellotech Prime	Two stage burner management kit							
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	20043900	20047680	4031188	4031192	4031196	4031198	4031395	20067631	20010820	4031067
RTQ 203 2S	1.8	•															•			•	•
RTQ 235 2S	2.7	•															•			•	•
RTQ 297 2S	3.5		•												•					•	•
RTQ 323 2S	3.9		•												•					•	•
RTQ 357 2S	4.1		•															•		•	•
RTQ 418 2S	2.9		•							•								•		•	•
RTQ 467 2S	3.3			•							•							•		•	•
RTQ 537 2S	3.0				•									•						•	•
RTQ 597 2S	5.1				•									•						•	•
RTQ 715 2S	4.7				•									•						•	•
RTQ 837 2S	8.1					•										•				•	•
RTQ 920 2S	4.6					•										•				•	•
RTQ 1020 2S	4.6					•						•								•	•
RTQ 1250 2S	5.8						•					•								•	•
RTQ 1500 2S	5.4							•					•							•	•
RTQ 1700 2S	7.2							•					•					П		•	•
RTQ 2020 2S	4.8								•									П	•	•	•

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 339.

CONTROL PANELS AND THERMOREGULATIONS

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APPLICATION

ELECTRONIC

THERMOSTATIC



RIELLOTECH CLIMA COMFORT RIELLOTECH CLIMA MIX

page 341



RIELLO 5000 CL-M

page 343

RIELLOTECH PRIME RIELLOTECH PRIME ACS

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RIELLO 5000 TMR2

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RIELLO

APPLICATION		ELECTRONIC			THERMOSTATIC	
	CLIMA COMFORT	CLIMA MIX	RIELLO 5000 CL-M	PRIME	PRIME ACS	RIELLO 5000 TMR2
HORIZONTAL	•		•	•	•	•
VERTICAL	•	•				
FOR ELECTRICAL CABINET	•	•				
BURNER	Modulating*		Modulating	One stage/two stage (with kit code 4031067)	One stage/two stage (with kit code 4031067)	One stage/two stage
CASCADE APPLICATION	Immersion or clip probe		•			
SOLAR SYSTEM	Probes 2 x 20010103 1 x 4031913					
DHW TANK	o Probe 1 x 20010103		•		• Probe included	•
DIRECT ZONE	•		•	•	•	•
1st MIXED ZONE		Immersion or clip probe probe or remote of RC3	With kit 20022775			
2 nd MIXED ZONE	immersion or clip probe	With kit 20011194, immersion or clip probe	With kit 20022775			
		probe or remote				
ALTERNATIVE SOURCE GENERATOR	For biomass:					

For modulating burner matched with cabinet installation control panel, add kit code 20013035.

USE OF RIELLOTECH REGULATION SYSTEMS

RIELLOTECH regulation systems are specifically designed for the following ranges: TAU N, RTS 3S, RTQ and RTQ 3S. Besides they allow the addition of more functions concerning the thermoregulations integrated in the model TAU UNIT OIL.

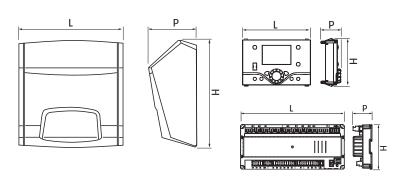
The complete compositions and the communication kits are to be checked on the specific accessories tables in the sections concerning

boilers and thermal groups.

Control panels and thermoregulations

RIELLOtech Clima Comfort RIELLOtech Clima Mix





 RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech CLIMA COMFORT/MIX	360	350	165	3
CLIMA COMFORT	360	350	165	3
CLIMA MIX	120	180	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech is an electronic control panel for the climatic management of a furnace with single-stage, two-stage or modulating burner. Ideal for complex systems as well as for the management of simpler installations. The range includes:

RIELLOtech Climate Comfort: it is the climatic regulation of even complex systems in single- or multi-family installations. It manages modulating burners, cascades of boilers, solar systems and the integration of several types of heat generators. The system side manages a mixed area (expandable to 2 with a special dedicated kit), one direct and the production of domestic hot water. Clima Comfort also offers the possibility to control modulating circulators (0-10V and PWM) with the specific expansion.

RIELLOtech Clima Mix: this is the system regulation that can manage 1 mixed area expandable to 2 with a special kit. The RIELLOtech Clima Comfort versions include a boiler probe and an external probe. All RIELLOtech Clima regulations can be integrated via BUS.

RIELLOtech features IP X4D protection level.

- It is possible to personalise the control panel through programmable inputs and outputs (e.g. 0/10V input, generator anticondensation pump)
- Frost protection, anti-blocking pump function and anti-legionnaires' disease protection
- Energy saving thanks to the system thermoregulation according to the external weather conditions
- Easy to program thanks to a user-friendly menu and a large display
- Quick to install: terminals and connectors, identifiable through silk-screen prints, are included in the supply
- Great flexibility of installation: they can be horizontally or vertically installed on the boilers or wall-mounted by means of a specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

TECHNICAL DATA

RIELLO

Description	Functional description	Installation type	Notes	Code
RIELLOTECH CLIMA COMFORT	Control panel with climatic regulation	Horizontal	(1)	4031064
RIELLOTECH CLIMA COMFORT	Control panel with climatic regulation	Vertical	(1)	4031069
RIELLOTECH CLIMA MIX	Electrical panel with zone regulator	Vertical		20010428
CLIMA DISPLAY	User interface for adjustments CLIMA COMFORT			20010906
CLIMA MIX	Zone regulator			20010904
CLIMA COMFORT	Climatic regulation			20010903

⁽¹⁾ Supplied as standard 1 immersion probe and 1 external sensor.

Deductible products only within a system refurbishment and building energy redevelopment. Therefore, please always check the specific procedures for accessing the incentive.

ACCESSORIES

Description	Code
Programmable expansion kit (CLIMA COMFORT)	20102310
Programmable expansion kit (CLIMA MIX)	20011194
Relay kit for modulating burner (CLIMA COMFORT)	20013035
RIELLOtech wall-hung installation kit (to be used only for vertical installation)	20010056
RC3 remote control kit	20155028
MODBUS connection kit	20185704
Indoor probe	20012456
NTC immersion probe (10kΩ) – 5 metres	20010068
NTC DHW-tank probe (10kΩ) - 5 metres	20010103
Solar collector probe NTC (10 k ohm)	4031913
NTC 0-ring probe (10kΩ)	20168680
NTC external probe (10 k ohm)	20164232

APPLICATION CHART

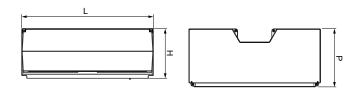
Description	Burner	Boiler	Biomass	Solar system	DHW storage	Direct	1st mixed zone	2 nd mixed zone
RIELLOtech CLIMA COMFORT *		in cascade	boiler		cylinder	zone		With specific additional mixed zone control kit
RIELLOtech CLIMA MIX								With additional mixed zone control kit
Compulsory accessories		1 NTC clip probe		2 NTC DHW-tank probes and 1 NTC immersion probe solar collector	1 NTC DHW- tank probe		1 NTC clip probe or 1 NTC immersion probe	1 NTC clip probe or 1 NTC immersion probe
Optional accessories			1 NTC immersion probe (only for biomass boiler)				1 indoor probe or RC3 remote control	1 indoor probe or RC3 remote control

For modulating burner adjustment, order the relay kit accessory.

Control panels and thermoregulations

RIELLO 5000 CL-M





• RIELLO 5000 CL-M range of control systems designed to control any kind of installations

Description	H	L	P	Net weight
	mm	mm	mm	kg
RIELLO 5000 CL-M	165	451	207	3

The RIELLO 5000 CL-M control panel is designed for climatic management of a one or two-circuit boiler equipped with a modulating, single or two-stage ventilated burner, built-in or free-standing boiler and pump heating system circulation.

Two to four boilers with CL-M control panels can be connected to the cascade control system.

At the same time, up to 6 additional control modules can be connected to each control panel for a separate heating circuit or a continuous flow heat exchanger of the DHW system (modules are supplied as accessories, see section "Accessories". Installation on the side of the boiler is allowed, using the support bracket available as an accessory.

TECHNICAL DATA

Description	Functional description	Installation type	Notes	Code
RIELLO 5000 CL-M	Control panel with climatic regulation	Horizontal	(1)	20020036

⁽¹⁾ Supplied as standard 1 immersion probe and 1 external sensor.

ACCESSORIES

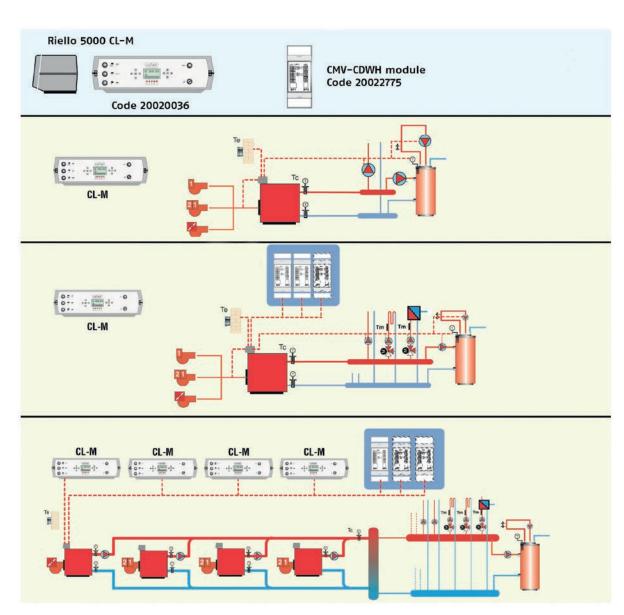
Drawing	Description	Code
2	CDHW accessory module	20022775
	Lateral adapter kit	4031059

RIELLO

APPLICATION CHART

Description	Burner	Boiler in cascade	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLO 5000 CL-M				Or	-		With specific additional mixed zone control kit
Compulsory accessories		1 NTC clip probe	2 NTC DHW- tank probes and 1 NTC immersion probe solar collector	1 NTC DHW- tank probe		1 CDHW	1 CDHW

For modulating burner adjustment, order the relay kit accessory. $% \label{eq:constraint}% % \label{eq:constraint}%$



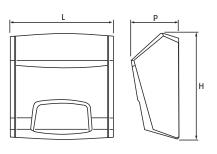
RECOMMENDATIONS FOR THE USE OF CONTROL PANELS WITH RIELLO BOILERS

Description	RTQ T (K)
RIELLO 5000 CL-M	•

Control panels and thermoregulations

RIELLOtech Prime ACS





• RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech Prime	360	350	165	3
RIELLOtech Prime ACS	360	350	165	3

RIELLOtech Prime is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit) and one direct zone. RIELLOtech Prime ACS is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit), the production of DHW and one direct zone. IPX4D electrical protection.

- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal version; for the vertical installation you just have to rotate the front panel by 180°.

TECHNICAL DATA

Description	Туре	Code
RIELLOTECH PRIME	Thermostatic control panel heating-only single stage (1) - horizontal installation (2)	20010820
RIELLOTECH PRIME ACS	Thermostatic control panel heating and DHW production single stage (1) - horizontal installation (2)	20010437

- (1) Two stage burner controlled by kit code 4031067.
- (2) For vertical installation turn the frontal panel by 180°.

ACCESSORIES

Description	Code
Two stage burner management kit (to install in Riellotech Prime and Riellotech Prime ACS)	4031067
RIELLOtech wall-hung installation kit (to be used only for vertical installation models)	20010056

APPLICATION CHART

RIELLO

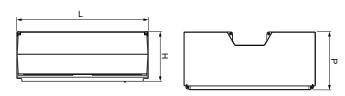
Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLOtech PRIME	21					-		
	Two-stage with special kit							
RIELLOtech PRIME ACS	21					-		
	Two-stage with special kit							
Compulsory accessories					1 storage tank probe NTC			

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Control panels and thermoregulations

RIELLO 5000 TMR2





• RIELLO 5000 TMR2 range of control systems designed to control any kind of installations

Description	H	L	P	Net weight
	mm	mm	mm	kg
RIELLO 5000 TMR2	165	451	207	3

RIELLO 5000 TMR2 is the thermostatic product line for the control of 1-stage and 2-stage burners, the production of DHW and one direct zone. IPX4D electrical protection.

- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal installation.

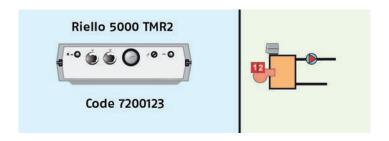
TECHNICAL DATA

Description	Functional description	Installation type	Code
RIELLO 5000 TMR2	Control panel with climatic regulation	Horizontal	07200123

APPLICATION CHART

RIELLO

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLO 5000 TMR2	Two-stage with special kit					-		
Compulsory accessories					1 storage tank probe NTC			



RECOMMENDATIONS FOR THE USE OF CONTROL PANELS WITH RIELLO BOILERS

Description	RTQ T (K)
RIELLO 5000 TMR2	•

HYBRID SYSTEMS

FLUE OPTIONS SYSTEM



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SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

Drawing	Description	Material (*)	Condexa HPR 35-45	Condexa HPR 55-70	Condexa Pro 35-70P	TAU UNIT 35-70	Notes	Code
	Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm	PP	•	<u> </u>	8			20134830
	Compact adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm	PP	•					20190475
9	Fixed twin system Ø80 mm kit	PP	•	•				20129765
	Vertical flue adapter kit from Ø60/100 to Ø80 (for type B23 installation)	PP	•	•				20129769
	Adapter from ø 80/125 mm to ø 80/80 mm	PP	•					20196312
9	Ø80/80 - Rainproof vertical adapter	PP						20196315
	45° bend Ø80 mm	PP			•	•	(1)	20137503
	90° bend Ø80 mm	PP			•	•	(1)	20137506
	Extension Ø80 mm, L=500	PP			•	•	(1)	20137508
	Extension Ø80 mm L=1000	PP			•	•	(1)	20137509
	Extension Ø80 mm L=2000	PP			•	•	(1)	20137511
	Flexible extension 12.5 m with 8 spacers Ø80 mm	PP			•	•	(1)	20132509
	Horizontal terminal Ø80 mm	PP			•	•	(1)	20137517
	Air suction terminal Ø80 mm	PP			•	•	(1)	20137515
	T-junction kit Ø80 mm with support bracket	PP			•	•	(1)	20132504
	Pipe spacers in the flue gases pipe	PP			•	•		20132505
	Straight inspection manifold Ø80 mm	PP			•	•	(1)	20132506
	Flue cover Ø80 mm	PP			•	•	(1)	20132508
	Flue cover Ø80 for rigid/flexible system	PP			•	•	(1)	20131271
ā	Ø80 mm T-junction kit	PP			•	•	(1)	20132513
	Rigid-flexible fitting Ø80 mm	PP			•	•	(1)	20132510
	Flexible-flexible fitting Ø80 mm	PP			•	•	(1)	20132511
	Flexible-rigid-fitting Ø80 mm	PP			•	•	(1)	20132512
	Drain pipe kit	PP			•	•		20132518

Drawing	Description	Material (*)	Condexa HPR 35-45	Condexa HPR 55-70	Condexa Pro 35-70P	TAU UNIT 35-70	Notes	Code
	Flue support shelf kit	Met			•	•		20145888
	Ø80 mm T-junction closure kit for condensate drain	Met			•	•	(1)	20132514
	Flue cover panel kit		•	•				20145889

PP material: colour may change over time because of sun's rays exposure. H1 pressure level according to EN 1443.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

Ø60/100 MM CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa HPR 35-45	Condexa Pro 35-70P	Notes	Code
	Double adaptor Ø80/80 mm – concentric Ø60/100 mm	PP/Met		•	(1)(2)	20137535
	45° Ø60/100 mm concentric bend	PP/Met	•	•	(1)	20142823
	90° Ø60/100 mm concentric bend	PP/Met	•	•	(1)	20142825
	Concentric extension 50 cm, Ø60/100 mm	PP/Met	•	•	(1)	20142829
	Concentric extension 100 cm, Ø60/100 mm	PP/Met	•	•	(1)	20142830
	Concentric extension 200 cm, Ø60/100 mm	PP/Met	•	•	(1)	20142831
	Ø60/100 mm horizontal flue terminal	PP/Met	•	•	(1)	20142836
	Ø60/100 mm vertical flue terminal	PP/Met	•	•	(1)	20142839
	Ø60/100 mm inspection extension	PP/Met	•	•	(1)	20142835
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	(1)	20142828

PP material: colour may change over time because of sun's rays exposure

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

NOTE: If in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

^(*) Printerial: Colour may change over time because of sun's rays exposure
(1) H1 pressure level according to EN 1443
(2) Check the maximum equivalent lengths by consulting the technical data sheet and / or by contacting the pre-sales service.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

RIELLO

CONCENTRIC FLUE DISCHARGE SYSTEM Ø60/100 mm IN PP/METAL FOR CONDENSATION BOILERS (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa HPR 35-45	Condexa Pro 57P-70P	Notes	Code
	45° Ø60/100 mm concentric bend	PP/PPU	•	•	(1)	20132012
	90° boiler start bend kit Ø60/100 mm	PP/PPU	•		(1)	20129172
	90° Ø60/100 mm concentric bend	PP/PPU	•		(1)	20132013
	Concentric extension 50 cm, Ø60/100 mm	PP/PPU	•		(1)	20132043
	Concentric extension 100 cm, Ø60/100 mm	PP/PPU	•		(1)	20132044
	Concentric extension 200 cm, Ø60/100 mm	PP/PPU	•		(1)	20132045
0	Wall collector Ø60/100 mm	PP/PPU	•		(1)	20129175
	Telescopic wall collector Ø60/100 mm	PP/PPU	•		(1)	20129176
	Ø60/100 mm horizontal flue terminal	PP/PPU	•		(1)	20132018
	Vertical collector Ø60/100 mm	PP/PPU	•		(1)	20129177
	Ø60/100 mm vertical flue terminal – Ø125 mm external straight pipe	PP/PPU	•		(1)	20132020
	Vertical connection Ø60/100 mm	PP/PPU	•		(1)	20129174
	Inspection extension Ø60/100 mm	PP/PPU	•		(1)	20132015
	Kit curva 45° con griglia Ø60 mm	PP/PPU	•		(1)(2)	20142841
# # m	Wall flue outlet kit Ø60 mm	PP/PPU	•		(1)(2)	20142842
Д	Flat roof tile	Nylon	•			20135579
	Pitched roof tile	Nylon	•			20132050

PP material: colour may change over time because of sun's rays exposure. H1 pressure level according to EN 1443. To be connected to the terminal.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

CONCENTRIC FLUE DISCHARGE SYSTEM Ø80/125 mm IN PP/METAL FOR CONDENSATION BOILERS (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	0	٩		Notes	Code
		,,	Condexa HPR 55-70	Condexa Pro 35-70P	UNIT 35-70		
			So	Cor	TAU		
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	(1)	2016465
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	(1)	2016465
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	(1)	2016465
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	(1)	2016465
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	(1)	2016466

Drawing	Description	Material				Notes	Code
Diawing	Description	(*)	2	-70P		Notes	code
			55-70	LD.	_		
			HPR 5	m	02-		
				a Pro	T 35		
			lexi	lexi	LNN		
			Condexa	Condexa	TAU		
			-	0	F		
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	(1)	20164655
	concentitie bend with inspection door 900/125 inin	1171100				(1)	20104033
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	(1)	20164661
			-	_			
	Terminale verticale Ø80/125 mm	PP/ABS	•	•	•	(1)	20131113
72	doolast was havinantal floor to wain al	PP/Met	•			(1)	20161 672
	Ø80/125 mm horizontal flue terminal	PP/Met	ľ			(1)	20164673
\	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	(1)	20164666
	Spacers Ø80-125 mm (5 pcs)	Met	•	•	•		20164665
-							
(*) DD material: col	our may change over time because of sun's rays exposure						

PP material: colour may change over time because of sun's rays exposure. H1 pressure level according to EN 1443.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

Ø80/125 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa HPR 55-70	Condexa Pro 57-70P	TAU UNIT 35-70	Notes	Code
	45° bend Ø80/125 mm	PP/ABS	•	•	•	(1)	20131054
	90° bend Ø80/125 mm	PP/ABS	•	•	•	(1)	20131083
	90° bend with inspection Ø80/125 mm	PP/ABS	•	•	•	(1)	20131095
	Double adaptor Ø80/80 mm - concentric Ø80/125 mm	PP/ABS	•	•	•	(1)	20131055
	Extension Ø80/125 mm, L=500 mm	PP/ABS	•	•	•	(1)	20131084
	Extension Ø80/125 mm, L=1000 mm	PP/ABS	•	•	•	(1)	20131085
	Vertical terminal Ø80/125 mm	PP/ABS	•	•	•	(1)	20131113
	Wall discharge terminal Ø80/125 mm	PP/ABS	•	•	•	(1)	20131098
	Flat roof tile	Nylon	•	•	•		20135579
	Universal tile for sloping roofs	Nylon	•	•	•		20132050
	Element kit Ø80/125 mm connection to flue	PP	•	•	•	(1)	20132520

 ^(*) PP material: colour may change over time because of sun's rays exposure.
 (1) H1 pressure level according to EN 1443.
 NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

RIELLO

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø110 mm

Drawing	Description	Material (*)	Condexa Pro 90–135	TAU UNIT 100-115	TAU UNIT 140	Notes	Code
@	45° bend Ø110 mm	PP	•		•	(1)	20131205
	90° bend Ø110 mm with inspection	PP	•		•	(1)	20131202
	90° bend Ø110 mm	PP	•		•	(1)	20131208
	Adaptor Ø80/Ø110 mm	PP		•		(1)	20131238
	Extension Ø110 mm, L=145 mm	PP		•	•	(1)	20144853
	Extension Ø110 mm, L=1000 mm	PP	•		•	(1)	20131210
	Ø110 T-junction kit with condensate drain	PP	•		•	(1)	20131218
B	Ø110 mm T-junction kit with stack support condensate drain	PP	•		•	(1)	20131221
	Ø110 mm T-junction kit	PP	•		•	(1)	20131222
	Flue cover Ø110 mm with terminal	PP	•		•	(1)	20131225

PP material: colour may change over time because of sun's rays exposure.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

⁽¹⁾ H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).

NOTE: please, refer to boiler installation manual for maximum flue line length.

Ø110/160 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 90-135	TAU UNIT 100-115	TAU UNIT 140	Notes	Code
	45° bend Ø110/160 mm	PP/Met	•	•	•	(1)	20131036
	90° bend Ø110/160 mm	PP/Met	•	•	•	(1)	20131040
	90° bend with inspection Ø110/160 mm	PP/Met	•	•	•	(1)	20131147
	Double adaptor Ø110/110 mm – concentric Ø110/160 mm	PP/Met	•	•	•	(1)	20131059
	Extension Ø110/160 mm, L=500 mm	PP/Met	•	•	•	(1)	20131046
	Extension Ø110/160 mm, L=1000 mm	PP/Met	•	•	•	(1)	20131050
	Outlet on roof Ø110/160 mm	PP/PE	•	•	•	(1)	20147403
(2)	Tile Ø160 mm 25-45% slope	_	•	•	•		20131145
9	Adaptor Ø80/Ø110 mm	PP		•		(1)	20131238
	Extension Ø110 mm, L=145 mm	PP		•		(1)	20144853
	Ø110/160 concentric horizontal flue terminal	PP/Met	•	•		(1)	20131149

(*) PP material: colour may change over time because of sun's rays exposure.
 (1) H1 pressure level according to EN 1443.
 NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in

H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line length.

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

PLASTIC FLUE SYSTEM Ø160 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160 mm	PP	20062445
	45° bend Ø160 mm	PP	20032646
	90° bend Ø160 mm	PP	20032644
© 0	Inspection bend Ø160 mm	PP	20062446
	Extension Ø160 mm, L=500 mm	PP	20060940
	Extension Ø160 mm, L =1000 mm	PP	20060941
	Extension Ø160 mm, L=2000 mm	PP	20060942
90	Inspection extension Ø160 mm	PP	20060945
	Chimney support Ø160 mm	PP	20062703
	Chimney cover Ø160 mm (stainless steel)	PP	20060953
	Condensate drain pipe Ø160 mm	PP	20062447
	T connection Ø160 mm with condensate drain and chimney support	PP	20063419
	T connection Ø160 mm with condensate drain	PP	20062448

RIELLO

TERMINAL UNITS

PLASTIC FLUE SYSTEM Ø200 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Concentric adapter Ø200-160 mm	PP	20062567
	30° bend Ø200 mm	PP	20062539
	45° bend Ø200 mm	PP	20062542
	90° bend Ø200 mm	PP	20062543
	Inspection bend Ø200 mm	PP	20062545
	Extension Ø200 mm L =500 mm	PP	20062527
	Extension Ø200 mm L =1000 mm	PP	20062530
	Extension Ø200 mm L =2000 mm	PP	20062532
	Inspection extension Ø200 mm	PP	20062534
	Chimney support Ø200 mm	PP	20062548
	Chimney cover Ø200 mm (stainless steel)	PP	20062547
	Condensate drain pipe Ø200 mm	PP	20062537
	T connection Ø200 mm with condensate drain and chimney support	PP	20063420
	T connection Ø200 mm with condensate drain	PP	20062550

PLASTIC FLUE SYSTEM Ø250 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø250-160 mm	PP	20062606
	Concentric adapter Ø250-200 mm	PP	20062607
	Eccentric adapter Ø250-200 mm	PP	20132393
	30° bend Ø250 mm	PP	20062593
	45° bend Ø250 mm	PP	20062594
	90° bend Ø250 mm	PP	20062595
© 0	Inspection bend Ø250 mm	PP	20062598
	Extension Ø250 mm, L=500 mm	PP	20062576
	Extension Ø250 mm, L=1000 mm	PP	20062577
	Extension Ø250 mm, L=2000 mm	PP	20062578
	Inspection extension Ø250 mm	PP	20062591
	Chimney support Ø250 mm	PP	20062600
	Chimney cover Ø250 mm (stainless steel)	PP	20062599
	Condensate drain pipe Ø250 mm	PP	20062592
	T connection Ø250 mm with condensate drain and chimney support	PP	20063421
	T connection Ø250 mm with condensate drain	PP	20062601

PLASTIC FLUE SYSTEM Ø300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300-160 mm	PP	20158581
	Eccentric adapter Ø300-250 mm	PP	20158580
	45° bend Ø300 mm	PP	20145293
	90° bend Ø300 mm	PP	20145294
	Inspection bend Ø300 mm	PP	20158567
	Extension Ø300 mm, L=500 mm	PP	20145292
	Extension Ø300 mm, L=1000 mm	PP	20145295
	Extension Ø300 mm, L=2000 mm	PP	20145296
90	Inspection extension Ø300 mm	PP	20145290
9-60-5	Chimney support Ø300 mm	PP	20158569
	Condensate drain pipe Ø300 mm	PP	20158566
	T connection Ø300 mm with condensate drain and chimney support	PP	20158572
	T connection Ø300 mm with condensate drain	PP	20158571

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160-225 mm	PP/Met	20062658
	45° bend Ø160-225 mm	PP/Met	20062659
	90° bend Ø160-225 mm	PP/Met	20062660
	Extension Ø160-225 mm, L=500 mm	PP/Met	20062655
	Extension Ø160-225 mm, L=1000 mm	PP/Met	20062656
	Inspection extension Ø160-225 mm, L=1000 mm	PP/Met	20062657
	Pipe for terminal Ø160-225 mm	PP/Met	20062662
	Terminal Ø160-225 mm	PP/Met	20062663
	Chimney support Ø160-225 mm	PP/Met	20062661

WATER-HEATERS

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø200-300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø200-300 mm	PP/Met	20062669
	45° bend Ø200-300 mm	PP/Met	20062670
	90° bend Ø200-300 mm	PP/Met	20062671
	Extension Ø200-300 mm, L=500 mm	PP/Met	20062666
	Extension Ø200-300 mm, L=1000 mm	PP/Met	20062667
	Inspection extension Ø200-300 mm	PP/Met	20062668
	Pipe for terminal Ø200-300 mm	PP/Met	20062673
	Terminal Ø200-300 mm	PP/Met	20062674
	Chimney support Ø200-300 mm	PP/Met	20062672

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	45° bend Ø250-350 mm	PP/Met	20062689
	Extension Ø250-350 mm, L=500 mm	PP/Met	20062676
	Extension Ø250-350 mm, L=1000 mm	PP/Met	20062677
	Inspection extension Ø250-350 mm	PP/Met	20062688
	Pipe for terminal Ø250-350 mm	PP/Met	20062691
	Terminal Ø250-350 mm	PP/Met	20062692
	Chimney support Ø250-350 mm	PP/Met	20062690

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø300-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300/350 mm - 250/350 mm	PP/Met	20158598
	45° bend Ø300-350 mm	PP/Met	20158600
	Extension Ø300-350 mm, L=500 mm	PP/Met	20158601
	Extension Ø300-350 mm, L=1000 mm	PP/Met	20158602
	Inspection extension Ø300-350 mm	PP/Met	20158603
	Pipe for terminal Ø300-350 mm	PP/Met	20158604
(Terminal Ø300-350 mm	PP/Met	20158605
	Chimney support Ø300-350 mm	PP/Met	20158606
	Boiler connection Ø300-350 mm (STEEL PRO POWER)	PP/Met	20158607
	Condensate drain pipe Ø300-350 mm	PP/Met	20158594

FLUE SYSTEM ACCESSORIES

Drawing	Description	Code
	Siphon Long John	20062443
	Tool Ø160 mm	20062510
	Tool Ø200 mm	20062563
	Tool Ø250 mm	20062604
obo	Spacers Ø300-500 mm	20158577
	Spacers Ø160 mm	20062444
	Spacers Ø160 mm (5pcs)	20060948
	Spacers Ø200 mm	20062564
	Spacers Ø225 mm	20062664
	Spacers Ø250 mm	20062605
	Grid Ø160 mm	20062513
•	Grid Ø200 mm	20062575
	Grid Ø250 mm	20062636
	Grid Ø300 mm	20158576
	Wall cover Ø160 mm	20062512
	Wall cover Ø200 mm	20062574
	Wall cover Ø225 mm	20062665
	Wall cover Ø250 mm	20062635
	Wall cover Ø300 mm	20062675
	Wall cover Ø350 mm	20062693
	Wall feeder Ø160−225 mm	20062449
	Wall feeder Ø200-300 mm	20062556
	Wall feeder Ø250-350 mm	20062602



AIR CONDITIONING	攀
AIR CONDITIONERS	363
PROFESSIONAL AIR CONDITIONERS	376

AIR CONDITIONERS

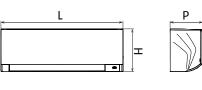


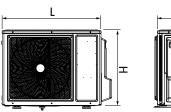
AIR CONDITIONERS FOR SMALL- AND MEDIUM-SIZED ROOMS

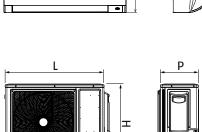
	WALL-MOUNTED	CEILING/FLOOR	CASSETTE	DUCTED
	AARIA MONO PLUS I – AMW PI AARIA AMW 25 PLUS I SET AARIA AMW 35 PLUS I SET AARIA AMW 50 PLUS I SET	AARIA MONO PLUS I-AMS AARIA AMS 35 PI SET AARIA AMS 50 PI SET	AARIA MONO PLUS I-AMK AARIA AMK 25 PI SET AARIA AMK 35 PI SET AARIA AMK 50 PI SET	AARIA MONO PLUS AMD AARIA AMD 25 PAI SET AARIA AMD 35 PAI SET AARIA AMD 50 PA SET
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MONO INVERTER		AARIA MONO PLUS I-AMC AARIA AMC 25 PI SET AARIA AMC 35 PI SET		
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	AARIA START N-AMW ST N			
	AARIA AMW START 25 N SET AARIA AMW START 35 N SET AARIA AMW START 50 N SET AARIA AMW START 70 N SET			
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	AARIA MULTI PLUS I-AMW PI	AARIA MULTI PLUS I-AMS	AARIA MULTI PLUS I-AMK	AARIA MULTI PLUS I-AMD
~	AMW 20 PI AMW 25 PI AMW 35 PI AMW 50 PI AMW 70 PI	AMS 35 P AMS 50 P AMS 70 P	AMK 25 P AMK 35 P AMK 50 P AMK 70 P	AMD 25 PAI AMD 35 PAI AMD 50 PA AMD 70 PA AMD 70 PB
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MULTI INVERTER	AARIA MULTI PLUS I-AMW ST N	AARIA MULTI PLUS I-AMC		
	AMW 25 ST N AMW 35 ST N	AMC 25 P AMC 35 P AMC 42 P		
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Wall-mounted mono inverter air conditioners

AARIA MONO PLUS I-AMW PI









- R32 heat pump, low environmental impact
- Monosplit wall-mounted Inverter, paired with AARIA MULTI PLUS I
- High energy efficiency class A+++/A++ Infrared remote control with temperature sensor
- Integrated Wi-Fi module supplied as standard"

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 PI	Indoor	313	895	236	11,3
AARIA MONO 25 PLUS I	Outdoor	553	800	275	27,6
AMW 35 PI	Indoor	313	895	236	11,3
AARIA MONO 35 PLUS I	Outdoor	553	800	275	30,0
AMW 50 PI	Indoor	313	895	236	11,6
AARIA MONO 50 PLUS I	Outdoor	643	820	305	35,7

AARIA MONO PLUS I-AMW PI air conditioners for monosplit installation on a wall, the Riello range for small and medium sized homes and commercial environments.

The range is available in three output ratings, from 2.5 to 5.0 kW in cooling mode, and reaches A++/A++ energy efficiency class. The indoor units can be paired with AARIA MULTI PLUS I outdoor units to cool and/or heat up to five rooms simultaneously. The outdoor unit with low environmental impact R32 refrigerant gas is equipped with a high-efficiency rotary compressor with soundproof insulation.

The wall-mounted indoor unit four-speed fan enables excellent low noise levels of up to 16 dB(A) at the super-low speed. The AMW PI indoor units come standard with an integrated and completely invisible WI-FI module to adjust home climate control at any time even from outside the home via a dedicated app.

The hidden display on the indoor unit shows the temperature.

The infrared remote control is equipped with a temperature sensor for improved comfort close to the user.

The distinctive design aesthetics, in matt white and with raised wave decorations on the side panels, makes the indoor unit elegant, to be perfectly integrated in any living context.

- ECO SEN SOR to detect the presence of human activity up to a maximum distance of 8 metres, to adjust the airflow and avoid or follow body movements, and to put the unit into energy-saving mode when the room is empty.
- HEALTH to sterilise the air using ultraviolet radiation from the UV lamp placed in the indoor unit.
- FULL SWING for automatic horizontal and vertical airflow control.
- I-FEEL to adjust temperature according to the temperature perceived by the remote control.
- AUTOMATIC CLEANING and STERILISATION AT 56°C to ensure healthier air at the output of the air conditioner.

TECHNICAL DATA

Description	Output in cooling	Annual consump-	Output in heating	Annual consump-	Unit type	Liquid attach-	Gas attach-	L/H max		ergy cy class	Code
	(T=+35 °C) kW	tion kWh/year	(T=+7°C) kW	tion kWh/year	ments mm	ments mm	m	SEER &S≋	SCOP &S≋		
AMW 25 PI	2,8	111	3,2	737	Indoor				A+++	A++	20206314
AARIA MONO 25 PLUS I					Outdoor						20206332
AARIA AMW 25 PLUS I SET						6,35	9,52	20/1			20211065
AMW 35 PI	3,5	144	4,2	825	Indoor				A+++	A++	20206315
AARIA MONO 35 PLUS I					Outdoor						20206333
AARIA AMW 35 PLUS I SET						6,35	9,52	20/1			20211068
AMW 50 PI	5,0	265	6,0	1400	Indoor				A+++	A++	20206317
AARIA MONO 50 PLUS I					Outdoor						20206335
AARIA AMW 50 PLUS I SET						6,35	12,7	25/1			20211069

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

Heating: indoor unit input air temperature 20 °C Tb.s.

TERMINAL UNITS

RIELLO

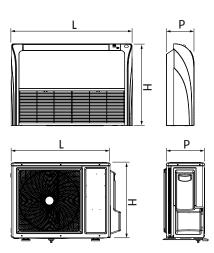
Ceiling/floor-standing mono inverter air conditioners

AARIA MONO PLUS I-AMS





- Low environmental impact R32 heat pump
- Ceiling/floor-standing inverter monosplit air conditioner range
- A+++/A++ high energy efficiency class for low consumption
- Infrared control"



Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 25 PAI	Indoor	185	850	420	16
AARIA MONO 25 PLUS I	Outdoor	553	800	275	27,6
AMS 35 P	Indoor	185	850	420	16
AARIA MONO 35 PLUS I	Outdoor	553	800	275	30,0
AMS 50 P	Indoor	185	1170	420	21,5
AARIA MONO 50 PLUS I	Outdoor	643	820	305	35,7

The AARIA MONO PLUS I-AMS air conditioners, for ceiling/floor-standing installation, are suitable for medium and small environments, to allow high energy efficient and functionally designed solutions. The unit with low environmental impact R32 refrigerant achieves A+++/A+ energy efficiency classes.

Outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds.

The AARIA MONO PLUS I-AMS range is available in two output ratings, 3.5 kW and 5.0 kW.

The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Indoor unit with on-board DISPLAY.
- SMART mode for automatic operation.
- QUIET function for ultra quiet operation.
- AUTORESTART function in case of blackout.
- Outdoor unit complete with connection covers.
- Wired control on demand."

TECHNICAL DATA

Description	Output in cooling	consumption	Output in heating	Annual consumption	Unit type	Liquid at- tachments		L/H max		ergy icy class	Code
	(T=+35 °C) kW	kWh/year	(T=+7°C) kW	kWh/year		mm	mm	m	SEER %≋	SCOP %≋	
AMD 25 PAI	2,5	210	3,2	1398							20200993
AARIA MONO 25 PLUS I											20206332
AARIA MONO AMD 25 PAI SET						6,35	9,52	20/10			20216664
AMD 35 PAI	3,5	241	4,0	1427	Indoor				A+++	A+	20200994
AARIA MONO 35 PLUS I					Outdoor						20206333
AARIA MONO AMD 35 PAI SET						6,35	9,52	20/10			20216030
AMD 50 PA	5,0	315	5,5	1961	Indoor				A+++	A+	20151425
AARIA MONO 50 PLUS I					Outdoor						20206335
AARIA MONO AMD 50 PAI SET						6,35	12,70	25/15			20216032

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Performance refers to the following conditions:

- conding: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u. heating: indoor unit air inlet temperature 20°C Tb.s.

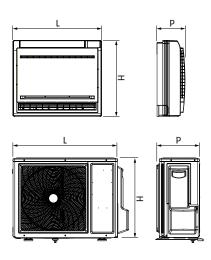
Floor-standing mono inverter air conditioners

AARIA MONO PLUS I-AMC





- Low environmental impact R32 heat pump
- Range of monosplit DC air conditioners
- Floor inverter
- A+++/A++ energy efficiency class for low consumption
- Infrared control"



Description	Unit type	H mm	L mm	P mm	Net weight kg
AMC 25 P	Indoor	600	700	210	16,5
AARIA MONO 25 PLUS I	Outdoor	553	800	275	27,6
AMC 35 P	Indoor	600	700	210	16,5
AARIA MONO 35 PLUS I	Outdoor	553	800	275	30,0

The AARIA MONO PLUS-AMC air conditioners, for floor-standing installation, are suitable for medium and small environments, to allow high energy efficient and functionally designed solutions.

The unit with low environmental impact R32 refrigerant achieves A++/A + energy efficiency classes.

Outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds.

The range AARIA MONO PLUS I-AMC is available in two output ratings, 2.5 kW and 3.5 kW.

The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit

- Indoor unit with on-board DISPLAY.
- Managing indirect flow.
- SMART mode for automatic operation.
- DRY function for dehumidification mode.
- OUIET function for ultra quiet operation.
- AUTORESTART function in case of blackout.
- Outdoor unit complete with connection covers.

TECHNICAL DATA

Description	Output in cooling	Annual consump-	Output in heating	Annual consump-	Unit type	Liquid attach-	Gas attach-	L/H max		ergy icy class	Code
	(T=+35 °C) kW	tion kWh/year	(T=+7°C) kW	tion kWh/year		ments mm	ments mm	m	SEER &	SCOP &S≋	
AMC 25 P	2,5	107	3,0	798	Indoor				A++	A+	20151549
AARIA MONO 25 PLUS I					Outdoor						20206332
AARIA MONO AMC 25 PI SET						6,35	9,52	20/10			20216023
AMC 35 P	3,4	157	3,5	962	Indoor				A++	A+	20151550
AARIA MONO 35 PLUS I					Outdoor						20206333
AARIA MONO AMC 35 PI SET						6,35	9,52	20/10			20216024

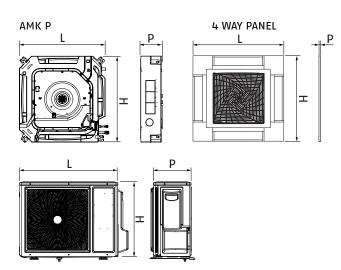
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.

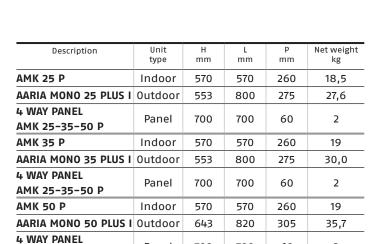
- Performance refers to the following conditions:
 cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

TERMINAL UNITS

Cassette mono inverter air conditioners

AARIA MONO PLUS I-AMK





700

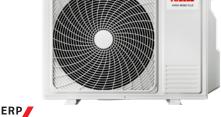
700

60

2

Panel

RIELLO





- Low environmental impact R32 heat pump
- Range of monosplit DC Inverter cassette air conditioners
- Up to A++/A+ energy efficiency class for low consumption
- Infrared control

The AARIA MONO PLUS-AMK air conditioners, for cassette installation, are suitable for medium and small environments, to allow high energy efficient and functionally designed solutions.

AMK 25-35-50 P

The unit with low environmental impact R32 refrigerant achieves A++/A + energy efficiency classes.

Outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, minimising vibrations and guaranteeing perfect soundproofing.

Super compact indoor unit (only 260 mm in depth), with 700x700 mm cover panel and 3-speed centrifugal fan to enable excellent low noise levels.

The range AARIA MONO PLUS I-AMK is available in three output ratings, from 2.5 kW to 5.0 kW.

The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- QUIET function for ultra quiet operation.
- DRY function for dehumidification mode.
- AUTORESTART function in case of power failure.
- POWER mode allowing the desired temperature to be achieved quickly.
- Outdoor unit complete with connection covers.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consump- tion kWh/year	Output in heating (T=+7°C) kW	Annual consump- tion kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max m		ergy icy class SCOP %≋	Code
AMK 25 P	2,5	210	3,2	1398	Indoor				A++	A+	20151428
AARIA MONO 25 PLUS I					Outdoor						20206332
4 WAY PANEL AMK 25-35-50 P											20151431
AARIA MONO AMK 25 PI SET						6,35	9,52	20/10			20216665
AMK 35 P	3,5	222	4,0	1427	Indoor				A++	Α	20151429
AARIA MONO 35 PLUS I					Outdoor						20206333
4 WAY PANEL AMK 25-35-50 P											20151431
AARIA MONO AMK 35 PI SET						6,35	9,52	20/10			20216028
AMK 50 P	5,0	363	5,5	1932	Indoor				A++	A+	20151430
AARIA MONO 50 PLUS I					Outdoor						20206335
4 WAY PANEL AMK 25-35-50 P											20151431
AARIA MONO AMK 50 PI SET						6,35	12,70	25/15			20216029

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

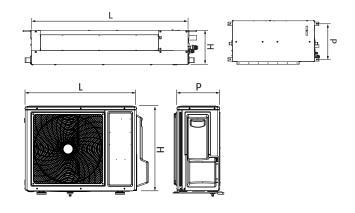
Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

Heating: indoor unit input air temperature 20 °C Tb.s.

Duct-connected mono inverter air conditioners

AARIA MONO PLUS I-AMD





- Low environmental impact R32 heat pump
- Range of monosplit DC air conditioners
- Ducted inverters
- Wired remote control
- Up to A++/A+ energy efficiency class for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 25 PAI	Indoor	185	850	420	16
AARIA MONO 25 PLUS I	Outdoor	553	800	275	27,6
AMD 35 PA	Indoor	185	850	420	16
AARIA MONO 35 PLUS	Outdoor	553	800	275	30,0
AMD 50 PA	Indoor	185	1170	420	21,5
AARIA MONO 50 PLUS	Outdoor	643	820	305	35,7

The AARIA MONO PLUS-AMD air conditioners for ducted installation are proposed for medium and small environments, to allow high energy efficient and functionally designed solutions.

The unit with low environmental impact R32 refrigerant achieves A++/A + energy efficiency classes.

Outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, minimising vibrations and guaranteeing perfect soundproofing.

One of the most compact indoor units in its category (only 185 mm in height), with a 3-speed ducted fan for low levels of noise. The range AARIA MONO PLUS I-AMD is available in three output ratings, from 2.5 kW to 5.0 kW.

The offer is completed by a wired control supplied as a standard, through which it is possible to manage all the unit functions.

- Motorised horizontal and vertical flaps to control airflow in both directions.
- **DEHUMIDIFICATION** operation
- AUTORESTART function in case of power failure.
- POWER mode allowing the desired temperature to be achieved quickly.
- Outdoor unit complete with connection covers.

TECHNICAL DATA

Description	Output in cooling	Annual consumption	Output in heating	Annual consumption	Unit type	Liquid attach-	Gas attach-	L/H max		ergy ncy class	Code
	(T=+35 °C) kW	kWh/year	(T=+7°C) kW	kWh/year		ments mm	ments mm	m	SEER &	SCOP &S≋	
AMD 25 PAI	2,5	210	3,2	1398					A++	A+	20200993
AARIA MONO 25 PLUS I											20206332
AARIA MONO AMD 25 PAI SET						6,35	9,52	20/10			20216664
AMD 35 PAI	3,5	241	4,0	1427	Indoor				A++	Α	20200994
AARIA MONO 35 PLUS I					Outdoor						20206333
AARIA MONO AMD 35 PAI SET						6,35	9,52	20/10			20216030
AMD 50 PA	5,0	315	5,5	1961	Indoor				A++	A+	20151425
AARIA MONO 50 PLUS I					Outdoor						20206335
AARIA MONO AMD 50 PAI SET						6,35	12,70	25/15			20216032

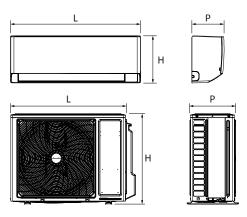
The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

- The performances refer to the following conditions:
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u. Heating: indoor unit input air temperature 20 °C Tb.s.



AARIA START N-AMW ST N

Wall-mounted mono inverter air conditioners



•	R32	heat	pump,	low	environ	mental	impact
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- Monosplit wall-mounted Inverter 2.5 and 3.5 kW indoor units, also multisplit, paired with AARIA MULTI 250 PI
- High energy efficiency class A++/A+
- Infrared remote control with temperature sensor

Description	Unit type	H mm	L mm	P mm	Net weight kg
MONOSPLIT					
AMW 25 ST	Indoor	290	805	200	8
AARIA START 25	Outdoor	544	700	245	23
AMW 35 ST	Indoor	290	805	200	8
AARIA START 35	Outdoor	544	700	245	24
AMW 50 ST	Indoor	320	975	220	12
AARIA START 50	Outdoor	553	800	275	33
AMW 70 ST	Indoor	320	975	220	12
AARIA START 70	Outdoor	705	890	340	14
DUALSPLIT					
AMW 25 ST N	Indoor	290	805	200	8
AMW 35 ST N	Indoor	290	805	200	8
AARIA MULTI 250 PI	Outdoor	553	800	275	36

AARIA START N is the range of Riello air conditioners for monosplit and dualsplit wall-mounted installation, for small and medium sized homes and commercial environments. The range is available in four output ratings, from 2.5 to 7.0 kW in cooling mode, and reaches A++/A+ energy efficiency class. The 2.5 and 3.5 kW indoor units can be paired with AARIA MULTI 250 PI outdoor unit to cool and/or heat up to two domestic rooms simultaneously.

The outdoor unit with low environmental impact R32 refrigerant gas is equipped with a high-efficiency rotary compressor with soundproof insulation.

The wall-mounted indoor unit four-speed fan enables excellent low noise levels of up to 18 dB(A) at the super-low speed. AARIA START N air conditioners can be equipped with an optional Wi-Fi kit for complete home comfort management, also remotely via dedicated APP.

The hidden display on the indoor unit shows the active operating mode, the temperature and any alarms. The infrared remote control is equipped with a temperature sensor for improved comfort close to the user. Thanks to the simple but elegant aesthetics, the machine can be installed in any living context.

- I-FEEL to adjust temperature according to the temperature perceived by the remote control.
- AUTOMATIC CLEANING and STERILISATION AT 56°C to ensure healthier air at the output of the air conditioner.
- QUIET for ultra-low level of noise at super-low ventilation speed.
- COMFORT SLEEP for optimised comfort during sleeping hours.
- MAXIMUM POWER to quickly achieve the desired room comfort.

TECHNICAL DATA - MONOSPLIT

Description	Output in cooling	Annual consump-	Output in heating	Annual consump-	Unit type	Liquid attach-	Gas attach-	L/H max m		ergy cy class	Code
	(T=+35 °C) kW	tion kWh/ year	(T=+7°C) kW	tion kWh/ year		ments mm	ments mm		SEER ‰≋	SCOP S‰≋	
AMW 25 ST N	2,6	149	2,8	840	Indoor				A++	A+	20206307
AARIA START 25 N					Outdoor						20206326
AARIA AMW 25 START N SET						6,35	9,52	15/10			20211070
AMW 35 ST N	3,2	184	3,4	980	Indoor				A++	A+	20206309
AARIA START 35 N					Outdoor						20206327
AARIA AMW 35 START N SET						6,35	9,52	20/1			20211071
AMW 50 ST N	5,0	287	5,2	1610	Indoor				A++	A+	20206310
AARIA START 50 N					Outdoor						20206328
AARIA AMW 50 START N SET						6,3,5	12,7	25/1			20211072
AMW 70 ST N	6,8	350	6,8	1960	Indoor				A++	A+	20206311
AARIA START 70 N					Outdoor						20206330
AARIA AMW 70 START N SET						6,35	12,7	25/1			20211074

TECHNICAL DATA - DUALSPLIT

Description	Output in cooling (T=+35 °C)	Annual consump- tion kWh/	Output in heating (T=+7°C)	Annual consump- tion kWh/	Unit type	Liquid attach- ments	Gas attach- ments	L/H max m		ergy icy class	Code
	kW	year	kW	year		mm	mm		%≋	86≋	
AARIA MULTI 250 PI ^(*)					Outdoor	6,35	12,7	25/10			20206346
COMPATIBLE WITH:											
AMW 25 ST N	2,6	149	2,8	840	Indoor				A++	A+	20206307
AMW 35 ST N	3,2	184	3,4	980	Indoor				A++	A+	20206309

 $(\mbox{\ensuremath{^{*}}})$ For information on possible combinations, refer to the installation manual.

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

- The performances refer to the following conditions:

 Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.

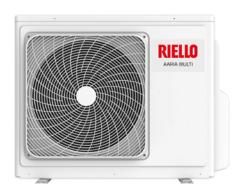
 Heating: indoor unit input air temperature 20 °C Tb.s.
- Heating: indoor unit input air temperature 20 °C Tb.s.

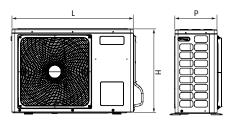
ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit	20194065

Multi inverter air conditioners

AARIA MULTI PLUS I







- Multisplit DC inverter air conditioner
- Multi range of up to 5 indoor units
- R32 heat pump with low environmental impact

Description	Unit	Н	L	P	Net weight
	type	mm	mm	mm	kg
AARIA MULTI 250 PI	Outdoor	553	800	275	36
AARIA MULTI 355 PI	Outdoor	700	890	340	51
AARIA MULTI 370 PI	Outdoor	700	890	340	54
AARIA MULTI 475 PI	Outdoor	700	890	340	61
AARIA MULTI 485 PI	Outdoor	700	890	340	61
AARIA MULTI 590 PI	Outdoor	760	920	372	66

The AARIA MULTI PLUS I range has been designed to serve several rooms using just one outdoor unit.

The main feature is the flexibility to choose indoor units among wall-mounted, cassette and duct-connected models.

AARIA MULTI PLUS I is available in six versions, from 5 kW up to 9 kW of cooling capacity, and guarantees state-of-the-art energy performance. The units AARIA MULTI PLUS with low environmental impact R32 refrigerant achieve A++/A+ energy efficiency classes thanks to the Inverter technology.

The external unit is made of pre-painted weather-resistant metal and is equipped with attachment covers and plastic front

The compressor is of the high-efficiency twin rotary type and minimises vibration.

- Condensing unit with up to 5 connections for indoor units.
- Wide range of indoor units: wall-mounted, cassette and duct-connected.
- DC Inverter technology
- High SCOP and SEE R
- Up to 80 m ducting length.
- Outdoor unit operating limit: down to -25°C in heating and +43°C in cooling.
- High energy class, for low consumption.

TECHNICAL DATA

Description	Unit type	Indoor unit combination	Output in cooling	Output in heating	Liquid attachments	Gas attachments		ergy cy class	Code
			(T=+35°C) kW	(T=+7°C) kW	mm	mm	SEER ‰≋	SCOP Seo≋	
AARIA MULTI 250 PI	DUAL (1:2)	2 x 3,5	5,0	5,2	2 x 6,35	2 x 9,52	A++	A+	20206346
AARIA MULTI 355 PI	TRIAL (1:3)	3 x 2,5	5,5	4,7	3 x 6,35	3 x 9,52	A++	A+	20200997
AARIA MULTI 370 PI	TRIAL (1:3)	3 x 2,5	7,0	6,0	3 x 6,35	3 x 9,52	A++	A+	20200998
AARIA MULTI 475 PI	QUADRI (1:4)	4 x 2,5	7,5	6,3	4 x 6,35	3 x 9,52 + 1 x 12,7	A++	A+	20200999
AARIA MULTI 485 PI	QUADRI (1:4)	4 x 2,5	8,5	7,0	4 x 6,35	3 x 9,52 + 1 x 12,7	A++	A+	20201000
AARIA MULTI 590 PI	PENTA (1:5)	5 x 2,5	9,0	7,2	5 x 6,35	3 x 9,52 + 2 x 12,7	A++	A+	20201001

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:

- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u. Heating: indoor unit input air temperature 20 °C Tb.s.

AUGUST 2024 FDITION

TECHNICAL DATA OF WALL-MOUNT INDOOR UNITS - AMW PI



RIELLO

Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMW 20 PI	2,0	2,3	30	230/1/50	730	313/895/236	6,35	9,52	20206313
AMW 25 PI	2,8	3,2,	30	230/1/50	730	313/895/236	6,35	9,52	20206314
AMW 35 PI	3,5	4,2	30	230/1/50	800	313/895/236	6,35	9,52	20206315
AMW 50 PI	5,0	6,0	30	230/1/50	880	313/895/236	6,35	12,70	20206317
AMW 70 PI	7,0	8,1	30	230/1/50	880	313/895/236	6,35	12,70	20206319

TECHNICAL DATA OF CEILING/FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMS 35 P	3,5	4,0	30	230/1/50	750	680/1000/230	6,35	9,52	20151552
AMS 50 P	5,0	5,8	30	230/1/50	880	680/1000/230	6,35	12,70	20151553
AMS 70 P	7,0	7,5	120	230/1/50	1250	680/1325/230	9,52	15,88	20151554

TECHNICAL DATA OF FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMC 25 P	2,5	2,8	40	230/1/50	400	600/700/210	6,35	9,52	20151549
AMC 35 P	3,4	3,5	40	230/1/50	450	600/700/210	6,35	9,52	20151550
AMC 42 P	4,2	4,7	40	230/1/50	530	600/700/210	6,35	9,52	20151551

TECHNICAL DATA OF INDOOR CASSETTE UNITS



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMK 25 P	2,6	3,2	33	230/1/50	510	570/570/260	6,35	9,52	20151428
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 25 P									20154918
AMK 35 P	3,5	4,0	35	230/1/50	620	570/570/260	6,35	9,52	20151429
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 35 P									20154921
AMK 50 P	5,0	5,5	38	230/1/50	700	570/570/260	6,35	12,70	20151430
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 50 P									20154920
AMK 70 P	7,1	8,0	50	230/1/50	1260	840/840/204	9,52	15,88	20151432
4 WAY PANEL AMK 70 P						50/950/950			20151433
SET AMK 70 P									20155179

TECHNICAL DATA OF DUCTED INDOOR UNITS



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMD 25 PAI	2,5	3,0	15	230/1/50	530	185/850/420	6,35	9,52	20200993
AMD 35 PAI	3,5	4,0	21	230/1/50	600	185/850/420	6,35	9,52	20200994
AMD 50 PA	5,0	5,5	55	230/1/50	900	185/1170/420	6,35	12,70	20151425
AMD 70 PA	7,1	7,5	65	230/1/50	1000	185/1170/420	9,52	15,88	20151426
AMD 70 PB	7,1	8,0	200	230/1/50	1440	248/1100/700	9,52	15,88	20151427

ACCESSORIES

Drawing	Description	Code
10 d d d d d d d d d d d d d d d d d d d	IR remote control	20192803
	IR remote control receiver panel	20160625
She ZHE She had been seen as a seen	Wired remote control for AMK P models	20187243
	Centralised touch screen control N (compatible with models from AARIA MULTI 355 PI)	20133642

The data and the efficiency classes are declared in conformity with EN 14825:

Cooling: Input air temperature 27 °C Tb.s., 19 °C Tb.u.; Outdoor air temperature 35 °C Tb.s.

Heating: Input air temperature 20 °C Tb.s., outdoor air temperature 7 °C Tb.s./6 °C Tb.u.

For system configurations, see the technical data sheet.

TERMINAL UNITS

PROFESSIONAL AIR CONDITIONERS



AIR CONDITIONERS FOR COMMERCIAL ENVIRONMENTS



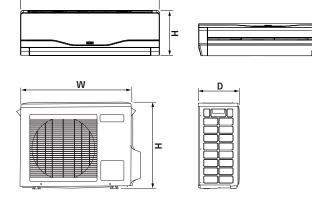
Wall-hung mono inverter air conditioners

AARIA PRO P-AMW P

W









- Wall-hung Inverter monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+++/A++ for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 70 P	Indoor	336	1115	243	16,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46

The AARIA PRO P-AMW series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7,3 to 12,9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.

The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps.

All the machines allow a connection for the introduction of fresh air into the indoor space.

The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA

Description	Unit type	Power supply	Liquid connections	gas max co				max cooling mode		heatin	ut in g mode		ergy icy class	Code
		V/Ph/Hz	mm	mm	m	(T=+3	35 °C)	(T=+	·7 °C)	SEER	SCOP			
						kW	SEER	kW	SCOP	%≣	%≣			
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A+	20153499		
AMW 70 P	Indoor	230/1/50								-	-	20148318		
AARIA PRO P 70 M SET			9,52	15,88	25/15	7,0	7,1	8,0	4,0	-	-	20166998		

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u. heating: indoor unit air inlet temperature 20°C Tb.s.

WATER-HEATERS

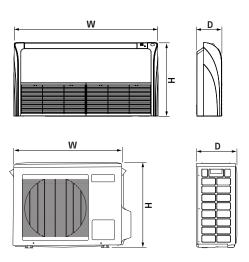
Ceiling/floor-standing mono inverter air conditioners

AARIA PRO P-AMS





- Ceiling/floor-standing Inverter Monosplit
- Heat pump in R32 with low environmental
- Energy class up to A++/A



Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 70 P	Indoor	680	1325	230	26,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMS 100 P	Indoor	680	1325	230	33,5
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMS 140 P	Indoor	680	1650	230	43
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMS series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7,3 to 12,9 kW, with single-phase power supply for

rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.
The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal

The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps. All the machines allow a connection for the introduction of fresh air into the indoor space. The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid Connections gas mm mm		UH Output in max cooling mode m (T=+35 °C)		Output in heating mode (T=+7 °C)		efficien SEER	ergy cy class SCOP	Code	
						kW	SEER	kW	SCOP	%≋	%≋	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	А	20153499
AMS 70 P	Indoor	230/1/50								_	-	20151554
AARIA PRO AMS P 70M SET			9,52	15,88	25/15	6,9	6,1	7,5	3,8	-	-	20166939
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	Α	20159411
AMS 100 P	Indoor	230/1/50								-	-	20159404
AARIA PRO AMS P 100M SET			9,52	15,88	50/30	9,5	6,03	10,2	3,8	-	-	20167018
AARIA PRO P 1125 M	Outdoor	230/1/50										20159412
AMS 125 P	Indoor	230/1/50								-	-	20159405
AARIA PRO AMS P 125M SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167019
AARIA PRO P 1125 T	Outdoor	400/3/50										20159413
AMS 125 P	Indoor	230/1/50								-	_	20159405
AARIA PRO AMS P 125T SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167020
AARIA PRO P 1140 T	Outdoor	400/3/50										20159414
AMS 140 P	Indoor	230/1/50								-	-	20159406
AARIA PRO AMS P 140T SET			9,52	15,88	75/30	12,9	6,1	14,1	4,0			20167021

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

- heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
24°	Wired control	20187243

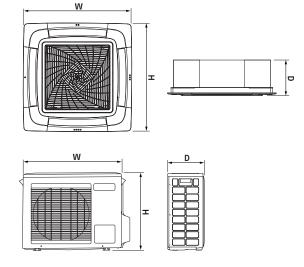
TERMINAL UNITS

RIELLO

Mono inverter-case air conditioners

AARIA PRO P-AMK







- Monosplit Inverter cassette
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 70 P	Indoor	840	840	204	27
AARIA PRO P 1070 M	Outdoor	730	860	308	46
Cover panel		950	950	50	6,5
AMK 100 P	Indoor	840	840	246	31
AARIA PRO P 1100 M	Outdoor	760	920	372	60
Cover panel		950	950	50	6,5
AMK 125 P	Indoor	840	840	288	32,0
AARIA PRO P 1125 M	Outdoor	965	950	370	83
Cover panel		950	950	50	6,5
AMK 125 P	Indoor	840	840	288	32,0
AARIA PRO P 1125 T	Outdoor	965	950	370	85
Cover panel		950	950	50	6,5
AMK 140 P	Indoor	840	840	288	32,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105
Cover panel		950	950	50	6,5

The AARIA PRO P-AMK series is the ideal cassette solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P offers cooling power ratings from 7,1 kW to 12,2 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1025 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The AMK-P indoor cassette units are designed for recessed ceiling installation and their dimensions are 840x840 mm.

The design features a plastic cover panel with central air intake and 4-way delivery, with individually orientable ventilation. The unit is complete with infrared control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Condensate pump on board of the unit
- Easy filter maintenance and accessibility
- Possible intake of additional air
- Infrared control.

TECHNICAL DATA

Description	Unit type	Electrical power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	cooling	out in g mode 35°C)		ut in g mode 7 °C)	efficien SEER	ergy cy class SCOP	Code
						kW	SEER	kW	SCOP	%≋	%≅	
AARIA PRO P 1070 M	0utdoor	230/1/50								A++	А	20153499
AMK 70 P	Indoor	230/1/50								-	_	20151432
COVER PANEL										-	_	20151433
AARIA PRO AMK P 70M SET			9,52	15,88	25/15	7,1	6,1	8,0	3,8	-	_	20167000
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	Α	20159411
AMK 100 P	Indoor	230/1/50								-	_	20158940
COVER PANEL										-	_	20151433
AARIA PRO AMK P 100M SET			9,52	15,88	50/30	9,0	5,7	10,1	3,8	-	_	20167001
AARIA PRO P 1125 M	Outdoor	230/1/50								-	_	20159412
AMK 125 P	Indoor	230/1/50								-	_	20158941
COVER PANEL										-	_	20151433
AARIA PRO AMK P 125M SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	_	20167003
AARIA PRO P 1125 T	Outdoor	400/3/50								-	_	20159413
AMK 125 P	Indoor	230/1/50								-	_	20158941
COVER PANEL										-	_	20151433
AARIA PRO AMK P 125T SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	_	20167004
AARIA PRO P 1140 T	Outdoor	400/3/50								-	_	20159414
AMK 140 P	Indoor	230/1/50								-	-	20158942
COVER PANEL										-	-	20151433
AARIA PRO AMK P 140T SET			9,52	15,88	75/30	12,2	5,1	14,3	3,7	-	_	20167005

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

- Performance refers to the following conditions:

 cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

 heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Notes	Code
10 d d d d d d d d d d d d d d d d d d d	IR remote control	(1)	20192803
	IR remote control receiver panel	(1)	20160625
60 CAC	Wired control		20187243

(1) Already included as standard in AMK models.

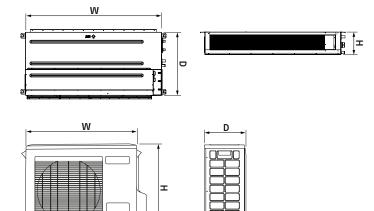
WATER-HEATERS

RIELLO

Mono inverter air conditioners-ductable

AARIA PRO P-AMD







- Ducted Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AARIA PRO P 1070 MI	Outdoor	697	890	535	45
AMD 70 PA	Indoor	185	1170	420	21,5
AARIA PRO P 1070 MI	Outdoor	697	890	353	45
AMD 70 PB	Indoor	248	1100	700	36
AARIA PRO P 1100 MI	Outdoor	760	920	372	60
AMD 100 PB	Indoor	248	1500	700	35
AARIA PRO P 1125 MI	Outdoor	965	950	370	84
AMD 125 PBI	Indoor	248	1500	700	48
AARIA PRO P 1125 MI	Outdoor	965	950	370	84
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 TI	Outdoor	965	950	370	85
AMD 125 PB	Indoor	248	1500	700	48
AARIA PRO P 1125 TI	Outdoor	965	950	370	85
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1140 TI	Outdoor	1350	950	370	101
AMD 140 PBI	Indoor	248	1500	700	48
AARIA PRO P 1140 TI	Outdoor	1350	950	370	101
AMD 140 PC	Indoor	425	1350	490	61,0

The AARIA PRO P-AMD series is the ideal ductable solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P-AMD offers cooling power ratings from 7,1 kW to 13,6 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with seasonal efficiency among the highest on the market. AMD indoor units are preset for installations requiring air ducting.

The compact size and the versatility of the range, with heads up to 250 Pa, allow a high variety of installations. The offer is complete with the wired control.

- AUTORESTART function in case of blackout
- Easy filter maintenance and accessibility
- Wired control included

TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid connections	Connections gas mm	max	Head Pa	cooling	out in g mode 35°C)	heatin	out in g mode		ergy icy class	Code
		V/PII/HZ	mm	IIIIII	m		(1=+:	35 °C)	(1=+	., -()	SEER	SCOP	
							kW	SEER	kW	SCOP	%≋	%≋	
AARIA PRO P 1070 MI	Outdoor	230/1/50						ĺ			A++	A	20201002
AMD 70 PA	Indoor	230/1/50									-	-	20151426
AARIA PRO AMD P 70 MI SET A			9,52	15,88	50/30	0/40	7,1	6,1	7,5	3,8	-	-	20205119
AARIA PRO P 1070 MI	Outdoor	230/1/50									A++	Α	20201002
AMD 70 PB	Indoor	230/1/50									_	-	20151427
AARIA PRO AMD P 70 MI SET B			9,52	15,88	50/30	25/150	7,1	6,1	7,5	3,8	-	-	20205123
AARIA PRO P 1100 MI	Outdoor	230/1/50									A+	A	20201003
AMD 100 PB	Indoor	230/1/50									-	-	20158936
AARIA PRO AMD P 100 MI SET B			9,52	15,88	50/30	25/150	9,5	6,1	10,2	3,8	-	-	20205124
AARIA PRO P 1125 MI	Outdoor	230/1/50									_	-	20201004
AMD 125 PBI	Indoor	230/1/50									_	-	20200995
AARIA PRO AMD P 125 MI SET B			9,52	15,88	50/30	25/150	12,3	5,7	12,7	3,9	-	-	20205126
AARIA PRO P 1125 MI	Outdoor	230/1/50									-	-	20201004
AMD 125 PC	Indoor	230/1/50									_	-	20159407
AARIA PRO AMD P 125 MI SET C			9,52	15,88	50/30	40/250	12,3	5,8	12,7	3,9	-	-	20205128
AARIA PRO P 1125 TI	Outdoor	400/3/50									-	-	20201005
AMD 125 PBI	Indoor	230/1/50									-	-	20200995
AARIA PRO AMD P 125 TI SET B			9,52	15,88	50/30	25/150	12,4	5,9	12,8	3,9	-	-	20205129
AARIA PRO P 1125 TI	Outdoor	400/3/50									_	-	20201005
AMD 125 PC	Indoor	230/1/50									_	-	20159407
AARIA PRO AMD P 125 TI SET C			9,52	15,88	50/30	40/250	12,4	5,9	12,8	3,9	-	-	20205131
AARIA PRO P 1140 TI	Outdoor	400/3/50									_	-	20201006
AMD 140 PBI	Indoor	230/1/50									-	-	20200996
AARIA PRO AMD P 140 TI SET B			9,52	15,88	70/30	25/150	13,4	6,2	15	4,1	-	-	20205132
AARIA PRO P 1140 TI	Outdoor	400/3/50									-	-	20201006
AMD 140 PC	Indoor	230/1/50									-	-	20159408
AARIA PRO AMD P 140 TI SET C			9,52	15,88	70/30	40/250	13,6	6,2	15	4,1	-	-	20205133

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.

heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
PE .	IR remote control	20192803
	IR remote control receiver panel	20160625



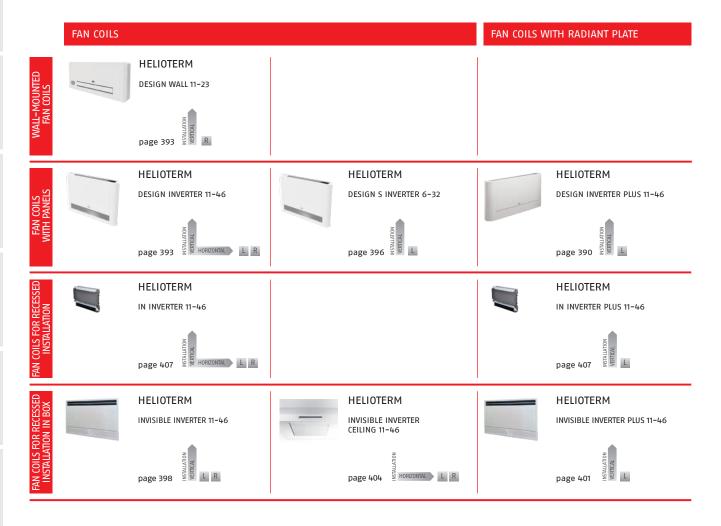
TERMINAL UNITS	<u> </u>
FAN COILS	386
FAIN COILS	300
DUCTABLE FAN COILS	412
WATER AIR HEATERS	415

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FAN COILS

RIELLO





FAN COILS



COMMERCIAL





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RK N HYDROLINE

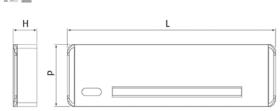
RK 24N-96N

page 410



Wall-mounted Fan coils







• Wall-mounted fan coils with Brushless Inverter motor

Description	H mm	L mm	P mm
DESIGN WALL 11	335	902	128
DESIGN WALL 17	335	1102	128
DESIGN WALL 23	335	1302	128

DESIGN WALL is the new Riello wall-mounted fan coils range suitable for residential and small commercial applications.

Thanks to the DC-Brushless motor, the DESIGN WALL fan coils are able to operate with an high modulation of air flow rate, from 0 up to 100%, in order to keep a comfortable temperature inside the room and to ensure the minimum-noise operation.

The range is characterized by an ultra slim aesthetic, with a depth of only 128 mm, to guarantee a perfect integration within the

 $\dot{\rm M}$ otorized flaps distribute air uniformly throughout the room.

The DESIGN WALL is available in two versions: equipped with remote control and on board touch display or in combination with control panel wall mounted TOP (Design Wall 11-23P).

Three models are available, with power from 1140 W up to 2340 W in cooling mode from 1610 W to 3250 W in heating mode. All three are available in the two versions with remote control or control panel wall mounted TOP.

- Ultra slim design
- 128 mm of depth, also with 2-3 way valve on board
- Motorized flaps for a comfortable air distribution
- Touch display control

TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Notes	Code
WITH REMOTE CONTROL							
DESIGN WALL 11	1140	1610	2780	320	39.7-24.9		20186360
DESIGN WALL 17	1620	2350	4120	430	42.4-25.2		20186361
DESIGN WALL 23	2340	3250	5720	540	42.6-25.8		20186362
IN COMBINATION WITH CONTROL PAN	EL WALL MOUNTE	TOP					
DESIGN WALL 11 P	1140	1610	2780	320	39.7-24.9	(A)	20186363
DESIGN WALL 17 P	1620	2350	4120	430	42.4-25.2	(A)	20186364
DESIGN WALL 23 P	2340	3250	5720	540	42.6-25.8	(A)	20186365

- Performance refer to the following conditions: (1) Room air temperature 27 °C Tb.s. and 19 °C Tb.u.
- Air temperature 20 °C Tb.s. and the same water flow rate achieved in cooling mode. Air temperature 20 °C Tb.s.
- Air flow rate measured with cleaned filters.
- According to UNI EN ISO 7779:2001.
- Mandatory accessory.

ACCESSORIES

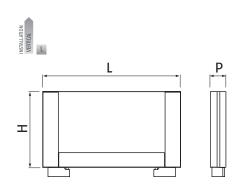
Drawing	Description	Notes	Code
23	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
ST.	Motorized 3 - ways valve kit.		20099251
4 4	Motorized 2 – ways valve kit.		20099250
48	2 - ways taps kit.		20117090

⁽¹⁾ Mandatory accessory for Design Wall 11P-23P.

Fan coil

Design Inverter Plus





 Tangential fan coils with radiant plate and Brushless inverter motor

Description	Н	L	Р
	mm	mm	mm
DESIGN INVERTER PLUS 11	580	760	130
DESIGN INVERTER PLUS 21	580	960	130
DESIGN INVERTER PLUS 33	580	1160	130
DESIGN INVERTER PLUS 40	580	1360	130
DESIGN INVERTER PLUS 46	580	1560	130

DESIGN INVERTER PLUS is the TOP of what Riello has to offer for fan coils. It is ideal for providing superior comfort in heating mode. DESIGN INVERTER PLUS unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room.

In addition to the radiating effect, the entire range is equipped with the DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

The DESIGN INVERTER PLUS very quickly heat and cool any area, with the possibility of selecting between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the use of the DC Brushless motors, the DESIGN INVERTER PLUS save up to 50% on electricity compared to the fan coils with traditional motors (type ON/OFF). Just like the entire HELIOTERM range, the DESIGN INVERTER PLUS range has an ULTRA FLAT appearance, with a depth of just 13 cm and an automatic suction system.

The range is available in 5 models with outputs in cooling mode from 830 W up to 4560 W and in heating mode from 1150 W up to 4860 W.

The vast range of accessories and controls with touch DISPLAY support a wide range of applications. The versions that can be installed vertically with connections on the left.

The structure is made of galvanised sheet metal with sides made of ABS; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Easy to remove and clean the filters
- **Touch Display commands**

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressu max-r dB	Code	
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH RADIANT HEAT PLATE	AND AUTO	OMATIC AIR	VENTILATION	DN					
DESIGN INVERTER PLUS 11B	1095	830	1515	1150	197	162	42.2-24.2	39.4-24.2	20116258
DESIGN INVERTER PLUS 21B	2120	1760	2885	2460	389	320	43.1-25.3	40.2-25.3	20116260
DESIGN INVERTER PLUS 33B	3310	2650	4140	3410	560	461	45.5-25.6	42.2-25.6	20116261
DESIGN INVERTER PLUS 40B	3875	3340	5015	4400	699	576	45.9-26.3	42.5-26.3	20116263
DESIGN INVERTER PLUS 46B	4560	3800	5910	5200	787	648	47.2-27.6	43.9-27.6	20116264

Performance refer to the following conditions:
(1) Room air temperature 27 °C. d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode.
(3) Air temperature 20 °C
(4) Air temperature 20 °C; main fan in "off".
(5) Air flow rate measured with cleaned filters.
(6) According to UNI EN ISO 7779:2001
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
*23 - + * • = • • • • • • • • • • • • • • • • • •	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
23â - * * °	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
.53	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
0	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 2	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
\$ D	2-ways taps kit.		4013450

Drawing	Description	Notes	Code
الله الله	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

- (1) Both codes are necessary for the first fan coil.(2) It must be installed 1 piece for every remoted fan coil.

MATCHING ACCESSORIES

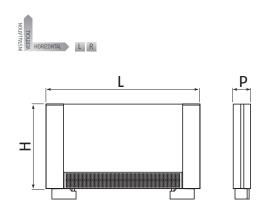
Drawing	Description	Size			Notes	Code		
		11	21	33	40	46		
		•					(D)	20116460
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus		•				(D)	20116461
				•			(D)	20116462
					•		(D)	20116463
						•	(D)	20116464

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design Inverter





- · Tangential fan coils
- Vertical or horizontal installation (with accessory)

Description	Н	L	P
	mm	mm	mm
DESIGN INVERTER 11	580	760	130
DESIGN INVERTER 21	580	960	130
DESIGN INVERTER 33	580	1160	130
DESIGN INVERTER 40	580	1360	130
DESIGN INVERTER 46	580	1560	130

The DESIGN INVERTER are the Riello fan coils with DC Brushless Inverter motors, for a continuous variation from 0 to 100% of the air flow and consequently the heating and cooling capacity. The DESIGN INVERTER quickly heat and cool any area, and it is possible to choose between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the DESIGN INVERTER save up to 50% in electricity compared to the fan coils with traditional motors (ON/OFF). Just like the whole HELIOTERM family, the DESIGN INVERTER range is extremely thin, with a depth of just 13 cm.

The range comes in 5 models with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W. The wide range of accessories and e controls with a touch DISPLAY support a wide application range.

All versions can be installed vertically or horizontally (using a specific accessory), with connections on the left. The structure is made of zinc-coated sheet with ABS side parts; the front delivery grille is made of aluminium.

- Extremely thin
- Depth of 13 cm
- Units can be installed both vertically and horizontally
- Ease of installation with left connections
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL									
DESIGN INVERTER 11B	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2	20116254
DESIGN INVERTER 21B	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3	20116244
DESIGN INVERTER 33B	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6	20116246
DESIGN INVERTER 40B	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3	20116250
DESIGN INVERTER 46B	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6	20116252

Performance refer to the following conditions:

- Room air temperature 27 °C d.b. and 19 °C w.b. Air temperature 20 °C and the same water flow rate achieved in cooling mode Air temperature 20 °C Air flow rate measured with cleaned filters

- According to UNI EN ISO 7779:2001

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

RIELLO

Drawing	Description	Notes	Code
23 -+ * o	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
730 -+ + 0	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
.53	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
0	Control panel for recessed installation.	(1)	20147241
n	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
n.	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 7	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
49	2-ways taps kit.		4013450
الله الله	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
===1	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIG	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422
	Condensate drain 11 for horizontal installation.	(3)	20025185
7	Condensate drain 21 for horizontal installation.	(3)	20025186
	Condensate drain 33 for horizontal installation.	(3)	20025187
	Condensate drain 40 for horizontal installation.	(3)	20025188
	Condensate drain 46 for horizontal installation.	(3)	20025189

Drawing	Description	Notes	Code
O	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

- Both codes are necessary for the first fan coil. It must be installed 1 piece for every remoted fan coil. The accessory is necessary for the horizontal installation of fan coil.

MATCHING ACCESSORIES

Drawing	Description	Size			Notes	Code		
		11	21	33	40	46		
		•					(D)	20116460
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus		•				(D)	20116461
				•			(D)	20116462
					•		(D)	20116463
						•	(D)	20116464

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

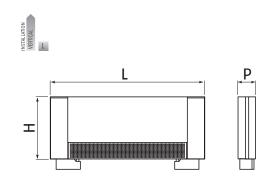
TERMINAL UNITS

RIELLO

Fan coil

Design S Inverter





 Tangential fan coils with Brushless inverter motor

Description	Н	L	Р
	mm	mm	mm
DESIGN INVERTER 6BS	379	760	130
DESIGN INVERTER 11BS	379	960	130
DESIGN INVERTER 17BS	379	1160	130
DESIGN INVERTER 23BS	379	1360	130
DESIGN INVERTER 32BS	379	1560	130

The DESIGN S INVERTER have a height of 379 mm and are lower than traditional fan coils. This feature allow their installation in limited spaces.

The whole range is provided with DC Brushless Inverter motors, allowing a continuous modulation from 0 to 100% of the air flow and consequently of the heating and cooling capacity, heating and cooling any room very rapidly.

Thanks to the DC Brushless motors, the DESIGN S INVERTER have an electrical consumption that is 50% lower than the fan coils with traditional motors. The DESIGN S INVERTER range features an ultra flat design, thanks to a depth of just 13 cm.

The structure is made of zinc-coated sheet with the frontal grille made of aluminium. The range comes in 5 models with a cooling capacity from 560 W to 3140 W and a heating capacity from 780 W till 3910 W.

The wide range of accessories and controls with a touch DISPLAY support a wide application range.

- Extremely thin
- Height 379 mm
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA

TECHNICAL DATA						
Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Code
WHITE FAN COIL						
DESIGN INVERTER 6BS	560	780	1390	140	38.8-23.8	20116265
DESIGN INVERTER 11BS	1040	1570	2730	250	39.5-24.9	20116267
DESIGN INVERTER 17BS	1640	2380	4140	390	41.4-25.1	20116271
DESIGN INVERTER 23BS	2310	3250	5650	540	41.6-25.7	20116272
DESIGN INVERTER 32BS	3140	3910	6620	600	42.6-26.8	20116273

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.

- Air temperature 20 °C and the same water flow rate achieved in cooling mode Air temperature 20 °C
- Air flow rate measured with cleaned filters
- According to UNI EN ISO 7779:2001

ACCESSORIES

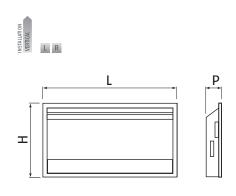
Drawing	Description	Notes	Code
53 -+ * o ∷∴ € * **	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
730 -+ * 0 **** c * **	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
.53	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
••	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
(D)	Control panel for recessed installation.	(1)	20147241
1	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
in a	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20076544
4 \$	2-ways valve kit. The kit is composed by a valve with thermo-electric head, it allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management.		20076590
49	2-ways taps kit.		4013450
الله الله	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter





 Tangential fan coils with Brushless inverter motor for recessed installation in the wall (with template)

Description	Н	L	P
	mm	mm	mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

INVISIBLE INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box. The white front panel with a grey intake grille in the same aesthetic line as the DESIGN INVERTER fan coil. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode. The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the INVISIBLE INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 4860 W with a wide range of accessories.

- Ultra flat design
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	7°C-1	cooling 2°C (1) V	50°	heating C (2) N	rate	n air flow e (4) ³/h	max-r	re irradiation min (5) B(A)	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH TEMPLATE FOR RECESSED	INSTALLAT	TON IN TH	IE WALL						
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2	20069349
BOX (FOR RECESSED INSTALLATION)									20025164
FRONTAL PANEL AND GRID									20116418
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3	20069370
BOX (FOR RECESSED INSTALLATION)									20025166
FRONTAL PANEL AND GRID									20116419
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6	20069371
BOX (FOR RECESSED INSTALLATION)									20025167
FRONTAL PANEL AND GRID									20116420
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3	20069372
BOX (FOR RECESSED INSTALLATION)									20025169
FRONTAL PANEL AND GRID									20116421
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6	20069373
BOX (FOR RECESSED INSTALLATION)									20025171
FRONTAL PANEL AND GRID									20116423

- Performance refer to the following conditions:
 (1) Room air temperature 27 °C d.b. and 19 °C w.b.
 (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
 (3) Air temperature 20 °C
 (4) Air flow rate measured with cleaned filters
 (5) According to UNI EN ISO 7779:2001
 NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
53	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
:::0	Control panel for recessed installation.	(1)	20147241
7201	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 2	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453

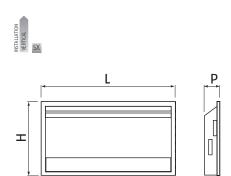
Drawing	Description	Notes	Code
a &	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
Õ	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

- Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter Plus





 Tangential fan coils with Brushless inverter motor, radiant heat plate effect of frontal panel for recessed installation in the wall (with template)

Description	Н	L	Р
	mm	mm	mm
INVISIBLE INVERTER PLUS 11	750	770	152
INVISIBLE INVERTER PLUS 21	750	970	152
INVISIBLE INVERTER PLUS 33	750	1170	152
INVISIBLE INVERTER PLUS 40	750	1370	152
INVISIBLE INVERTER PLUS 46	750	1570	152

INVISIBLE INVERTER PLUS is the Riello TOP of the range proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box.

The INVISIBLE INVERTER PLUS front panel unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER PLUS quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the INVISIBLE INVERTER PLUS range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 1090 4860 W.

- Ultra flat design
- Radiant effect in heating mode
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

RIELLO

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL WITH TEMPLATE FOR REC	ESSED IN	STALLATIO	N IN THE	WALL				,		
INVISIBLE INVERTER PLUS 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2	(D)	20069374
BOX (FOR RECESSED INSTALLATION)										20025164
FRONTAL PANEL AND GRID										20116418
INVISIBLE INVERTER PLUS 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3	(D)	20069375
BOX (FOR RECESSED INSTALLATION)										20025166
FRONTAL PANEL AND GRID										20116419
INVISIBLE INVERTER PLUS 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6	(D)	20069376
BOX (FOR RECESSED INSTALLATION)										20025167
FRONTAL PANEL AND GRID										20116420
INVISIBLE INVERTER PLUS 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3	(D)	20069377
BOX (FOR RECESSED INSTALLATION)										20025169
FRONTAL PANEL AND GRID										20116421
INVISIBLE INVERTER PLUS 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6	(D)	20069378
BOX (FOR RECESSED INSTALLATION)										20025171
FRONTAL PANEL AND GRID										20116423

Performance refer to the following conditions:

(1) Room air temperature 27 °C d.b. and 19 °C w.b.

(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode

(3) Air temperature 20 °C

(4) Air temperature 20 °C, Main fan in "off"

(5) Air flow rate measured with cleaned filters

(6) According to UNI EN ISO 7779:2001

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
23	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
To a second	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063

Drawing	Description	Notes	Code
4 2	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
49	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452

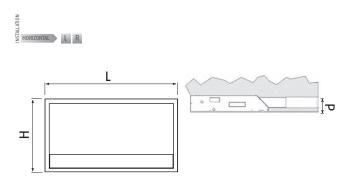
AUGUST 2024 EDITION

Both codes are necessary for the first fan coil. It must be installed 1 piece for every remoted fan coil.

Ceiling-mounted fan coil units with formwork

Invisible Inverter Ceiling





• Fan coil unit with a builtin Brushless Inverter motor complete with template for ceiling installation.

5 1 11			
Description	Н	L	P
	mm	mm	mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

The INVISIBLE INVERTER ceiling-mounted unit is ideally designed for installation in false ceilings, such as in hotel rooms, where direct air intake, via a grille (not included), and air supply, via a distribution duct, are required. This unit can be fitted in false ceilings with limited thickness thanks to the unit's depth of only 14.2 cm.

The cover panel is white and equipped with an intake grille. The telescopic duct allows combination with any type of air outlet grille available on the market. INVISIBLE INVERTER is equipped with DC Brushless Inverter motors.

The DC Brushless motor allows a continuous variation from 0 to 100% of the air flow rate and therefore of the heating and cooling capacity. The INVISIBLE INVERTER heats and cools any room very quickly, with a choice of two dedicated mappings: PERFORMANCE for commercial environments, which require high performance and efficiency, and COMFORT for quiet residential environments. Thanks to the use of DC Brushless motors the INVISIBLE INVERTERs save up to 50% electricity compared to fan coil units with traditional motors (ON/OFF type).

The range is available in 5 models, with cooling capacities from 830 W up to 4560 W and heating capacities from 1090 W up to 4860 W with a wide range of accessories.

- Installation in false ceilings
- Particularly low noise level
- Reduced depth of 14.2 cm
- Wide range of accessories

TECHNICAL DATA

Description	7°C-	g power -12°C (1)	Thermal output 50°C W (2)		Maximum air flow m³/h (4)		max	oressure -min A) (5)	Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL UNIT COMPLETE WITH	CEILING	INSTALLA	TION TEN	4PLATE		,		,		
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42.2-24.2	39.4-24.2		20069349
Built-in unit										20025164
Ceiling panel and suction grille									(D)	20116425
Telescopic air outlet duct									(D)	4013486
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43.1-25.3	40.2-25.3		20069370
Built-in unit										20025166
Ceiling panel and suction grille									(D)	20116426
Telescopic air outlet duct									(D)	4013487
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45.5-25.6	42.2-25.6		20069371
Built-in unit										20025167
Ceiling panel and suction grille									(D)	20116427
Telescopic air outlet duct									(D)	4013488
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45.9-26.3	42.5-26.3		20069372
Built-in unit										20025169
Ceiling panel and suction grille									(D)	20116428
Telescopic air outlet duct									(D)	4013489
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47.2-27.6	43.9-27.6		20069373
Built-in unit										20025171
Ceiling panel and suction grille									(D)	20116429
Telescopic air outlet duct									(D)	4013490

- Performance refers to the following services:
 (1) Ambient air temperature 27°C Tb.s. and 19°C Tb.u.
 (2) Air temperature 20°C and same water flow rate as in cooling mode.
 (3) Air temperature 20°C.
 (4) Air flow rate measured with clean filters.
 (5) According to UNI EN ISO 7779:2001.
 (D) Availability of the material at our warehouse: 25 working days from the order validation date.
 NOTA: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

TERMINAL UNITS

ACCESSORIES

RIELLO

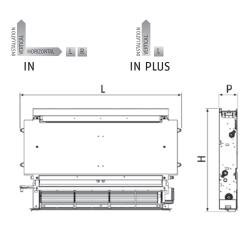
Drawing	Description	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
(0)	Control panel for recessed installation.	(1)	20147241
100	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
al.	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4 \$	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
4	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
TO.	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452

Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil

Fan coil for recessed installation

In Inverter In Inverter Plus





 Fan coils with Brushless inverter motor for recessed installation in the wall

Description	Н	L	Р
	mm	mm	mm
IN INVERTER 11	576	525	126
IN INVERTER 21	576	725	126
IN INVERTER 33	576	925	126
IN INVERTER 40	576	1125	126
IN INVERTER 46	576	1325	126
IN INVERTER PLUS 11	576	525	126
IN INVERTER PLUS 21	576	725	126
IN INVERTER PLUS 33	576	925	126
IN INVERTER PLUS 40	576	1125	126
IN INVERTER PLUS 46	576	1325	126

IN INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls that are relatively thin, thanks to the just 12.6 cm deep box.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

IN INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the IN INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type). The range comes in 5 models with (PLUS model) and without radiant effect, with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W.

The vast range of accessories and controls with DISPLAY support a wide range of applications.

All IN INVERTER versions can be installed vertically or horizontally (using a specific accessory), with standard connections on the left (on the right with the relative accessory).

The IN INVERTER PLUS versions can be installed vertically with connections on the left. The structure is made of zinc-coated sheet metal.

- Ultra low-noise operation
- Just 12,6 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

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TERMINAL UNITS

TECHNICAL DATA

RIELLO

Description	7°C-1	cooling 2°C (1) V	50°	heating C (2) N	rate	n air flow e (4) ³/h	max-r	re irradiation nin (5) (A)	Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
FAN COIL FOR RECESSED INSTALLATION		•			~					
IN INVERTER 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2		20069349
IN INVERTER 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3		20069370
IN INVERTER 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6		20069371
IN INVERTER 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3		20069372
IN INVERTER 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6		20069373
FAN COIL WITH RADIANT HEAT PLATE FO	R RECESSI	ED INSTAL	LATION							
IN INVERTER PLUS 11	1095	830	1515	1090	197	162	42.2-24.2	39.4-24.2	(D)	20069374
IN INVERTER PLUS 21	2120	1760	2885	2350	389	320	43.1-25.3	40.2-25.3	(D)	20069375
IN INVERTER PLUS 33	3310	2650	4140	3190	560	461	45.5-25.6	42.2-25.6	(D)	20069376
IN INVERTER PLUS 40	3875	3340	5015	4100	699	576	45.9-26.3	42.5-26.3	(D)	20069377
IN INVERTER PLUS 46	4560	3800	5910	4860	787	648	47.2-27.6	43.9-27.6	(D)	20069378

Performance refer to the following conditions:
(1) Room air temperature 27 °C d.b. and 19 °C w.b.
(2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
(3) Air temperature 20 °C
(4) Air temperature 20 °C; main fan in "off"
(5) Air flow rate measured with cleaned filters
(6) According to UNI EN ISO 7779:2001
(D) Availability of the material at our warehouse: 25 working days from the order validation date.
NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
53	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or though the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
• •	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
10.5	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	2011648
108	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
44	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
4	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
4 2	2-ways taps kit.		4013450

Drawing	Description	Notes	Code
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
FIC	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
Õ	Cables kit for right-side connections for IN model (not for PLUS model). It is compulsory for the connections reversal.		20069415

MATCHING ACCESSORIES

Drawing	Description	Size				Notes	Code	
		11	21	33	40	46		
		•					(D)	4013481
			•				(D)	4013482
	90° air-inlet kit for recessed models IN Inverter (not for Plus models)			•			(D)	4013483
	(not for rius moders)				•		(D)	4013484
						•	(D)	4013485
	Upper inlet kit for recessed models IN Inverter	•					(D)	4013486
			•				(D)	4013487
				•			(D)	4013488
					•		(D)	4013489
						•	(D)	4013490
		•					(D)	4013491
			•				(D)	4013492
	Suction kit for recessed models IN Inverter (not for Plus model)			•			(D)	4013493
il	(not for rids modely				•		(D)	4013494
						•	(D)	4013495

⁽D) Availability of the material at our warehouse: 25 working days from the order validation date.

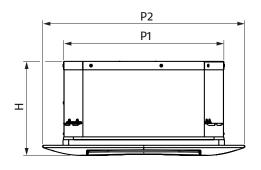
Both codes are necessary for the first fan coil It must be installed 1 piece for every remoted fan coil.

TERMINAL UNITS

Fan coils - Cassette

RK N Hydroline





• "Cassette" fan coils

Description	H mm	L1 mm	L2 mm
RK 24 N SET	298	720	569
RK 40 N SET	298	720	569
RK 47 N SET	298	720	569
RK 63 N SET	298	960	825
RK 72 N SET	298	960	825
RK 96 N SET	298	960	825

The RK N cassette fan coil range is designed for heating and/or cooling solutions both for residential or commercial applications wherever a ceiling installation is required in order to meet specific architectural needs.

Thanks to the pleasant aesthetic, the accurate design and the 4-ways adjustable air outlet, the RK N cassette fan coils are Riello's ideal solution for any setting. For a user-friendly interface, the whole range of RK N fan coils can be matched with the wall-hung control panels of Hydrocontrol line:

- TermoComfortPlus and TermoComfort.
- Extremely low noise level
- Washable air filter
- Condensate drain pump supplied as standard
- Ease of installation
- Excellent air distribution through 4 manual wings
- Filters easy to disassemble and clean.

TECHNICAL DATA

	Description	Power cooling kW	Power heating kW	Air flow rate m³/h	Notes	Code
RK 24 N SET	RK 24 N	2.400	3.200	660	(1)(2)	20051794
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 40 N SET	RK 40 N	4.000	5.000	735	(1)(2)	20051795
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 47 N SET	RK 47 N	4.700	6.200	900	(1)(2)	20051796
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 63 N SET	RK 63 N	6.300	8.110	980	(1)(2)	20051797
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 72 N SET	RK 72 N	7.200	10.000	1160	(1)(2)	20051798
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 96 N SET	RK 96 N	9.600	13.000	1.600	(1)(2)	20051799
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226

- TO PURCHASE THE COMPLETE PRODUCT, PLEASE REMEMBER TO ORDER ALL THE CODES (RK N, GRID PANEL AND SUMMER/WINTER AUTOMATIC SWITCH KIT).
- (*) TO PURCHASE THE COMPLETE PRODUCT, PLEASE REMEMBER TO ORDER ALL THE CODES (RK N, GRID PANEL AND SUMMER/WINTE (1) The fan coil must be matched with an electrovalve that manages the functioning.

 (2) Accessories "Grid panel" and "Summer/Winter automatic switch kit" must be ordered together with the base unit. Performance refer to the following conditions:

- fan speed: maximum; cooling: flow water 7°C; inlet air temperature 27°C Td.b./ 19°C Tw.b.; (Δt 5°C); heating: flow water 50°C; inlet air temperature 20°C Td.b; same water flow rate reached in cooling mode; maximum flow water 80°C.

ACCESSORIES

Description	Code
2-pipes valve kit (24-47 models)	20035945
2-pipes valve kit (63-96 models)	20086595
Primary air kit	4012192
Air lock kit	4012225

CONTROLS

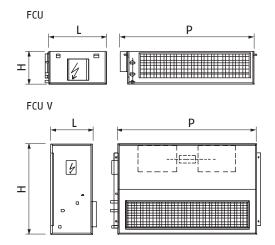
Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	20081464
Air probe kit	(2)	20083816
Water probe kit		20083809
Multiple kit	(3)	20081499

- Not included the water probe kit code 20083809.
- Sensor for remote reading. One control for each fan coil.

Ductable fan coils

FCU N





• Fan coils for horizontal and vertical installation

Description	H mm	L mm	P mm
FCU 09 N	296	520	645
FCU 15 N-17 N	296	520	1000
FCU 21 N	325	600	1100
FCU 24 N	325	600	1345
FCU 36 N-43 N	375	600	1345

FCU duct-connected fan coils are designed to provide a preliminary air treatment both for small-sized centralized installations and for installations with fun-coils unists. They are available in 7 models with an air flow rate ranging from 930 to 4.300 m3/h. The possibility to combine FCU units with a series of accessories, both on the outlet and on the intake side, makes them suitable for different uses, starting from the simple functions of cooling and/or heating up to treatments such as filtering, mixing, external air suction, re-heating both through water and electrical.

It is available in two basic versions: one for horizontal installation, having a reduced length, and one for vertical installation. These units consist of an aluzinc casing, provided with a thermal insulation layer made of polyethylene and polyester. All units are equipped with: a synthetic eff. EU3 filter, removable on guide rails, a heat-exchange coil with copper pipes and aluminium wings, a stainless steel AISI 304 condensate trap and double-suction fans with direct coupled motor. All units (except for 09 size because of its reduced electrical absorption) are also equipped with an electrical connection box with connectors protected by a relay.

- Compact dimensions
- Stainless steel AISI 304 condensate trap
- Motorized fan group, that can be inspected from the bottom
- Wide range of accessories enabling the units to be more flexible and suit different application needs.

TECHNICAL DATA

Description	Power cooling kW	Power heating kW	Maximum air loss m³/h	External static pressure Pa	Maximum power input W	Code
MODELS FOR HORIZONTAL INSTALLATION	NC	×				
FCU 09 N	4.6	9.8	930	90	195	20095872
FCU 15 N	7.5	15.5	1.500	100	299	20095873
FCU 17 N	9.1	19.7	1.600	85	302	20095874
FCU 21 N	10.5	21.6	2.050	115	430	20095876
FCU 24 N	13.1	25.9	2.400	105	430	20095877
FCU 36 N	15.7	35.5	3.600	120	750	20095878
FCU 43 N	20.7	46.3	4.200	115	950	20095879

- (1) Availability of the material in our warehouse: 20 working days of receipt of the order.
- Performance refer to the following conditions:

 Cooling: inlet air temperature 26 °C with 50% r.h.; flow water 7 °C (Δ t 5 °C at the nominal air flow)
- Cooling: Inlet air temperature 26 °C with 50% r.h.; flow water 7 °C (At 5 °C at the nominal air flow)
 Heating: inlet air temperature 20 °C with 50% r.h.; flow water 70 °C (At 10 °C at the nominal air flow)

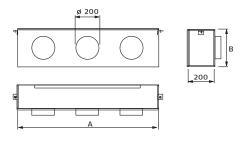
ACCESSORIES

Description	Notes	Code
CP-Basic: speed selector with 0FF/cooling/heating button and 3-positions speed switch	(A)	20083633
CP-Comfort/R: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of the electrical resistance and fan speed selection (minimum, medium, maximum), for models with electrical resistance	(A)	20083635
CP-Comfort/V: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of water coil (0-10 V control) and fan speed selection (minimum, medium, maximum), for models with water coil	(A)	20083637

⁽A) The accessory cannot be ordered separately but only together with the unit. Anyway it will have be mounted because it is not pre-installed on the product.

OUTLET PLENUM FOR ROUND DUCTS

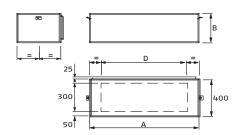
Destination	Description	Code
Model 09	Outlet plenum for round ducts for FCU 09	4015962
Models 15-17	Outlet plenum for round ducts for FCU 15-17	4015963
Model 21	Outlet plenum for round ducts for FCU 21	4015964
Model 24	Outlet plenum for round ducts for FCU 24	4015965
Models 36-43	Outlet plenum for round ducts for FCU 36-43	4015966



Model	Round ducts			nsions m
	Number	Diameter mm	А	В
Model 09	2	200	614	295
Models 15-17	3	200	974	295
Model 21	3	200	1074	322
Model 24	4	200	1314	322
Models 36-43	4	200	1314	372

INTAKE PLENUM 90°

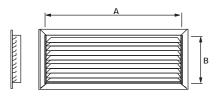
Destination	Description	Code
Model 09	Intake plenum 90° for FCU 09	4015967
Models 15-17	Intake plenum 90° for FCU 15–17	4015968
Model 21	Intake plenum 90° for FCU 21	4015969
Model 24	Intake plenum 90° for FCU 24	4015970
Models 36-43	Intake plenum 90° for FCU 36-43	4015971



Model	Dimensions			
		mm		
	A	В	D	
Model 09	550	278	500	
		_		
Models 15-17	910	278	800	
Model 21	1010	302	800	
Model 24	1250	302	1200	
1400E1 24	1230	302	1200	
Models 36-43	1250	328	1200	

INTAKE GRID WITH FIXED WINGS (FOR INTAKE PLENUM)

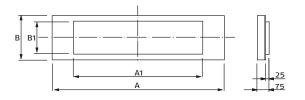
Destination	Description	Code
Model 09	Intake grid for FCU 09	4015972
Models 15-17-21	Intake grid for FCU 15-17-21	4015973
Models 24-36-43	Intake grid for FCU 24-36-43	4015974



Model	Dimensions mm		
	А	В	
Model 09	500	300	
Models 15-17-21	800	300	
Models 24-36-43	1200	300	

ADAPTER FRAME FOR RECTANGULAR DUCTS

Destination	Description	Code
Model 09	Adapter frame for FCU 09	4015978
Models 15-17	Adapter frame for FCU 15-17	4015979
Model 21	Adapter frame for FCU 21	4015980
Model 24	Adapter frame for FCU 24	4015981
Models 36-43	Adapter frame for FCU 36-43	4015982

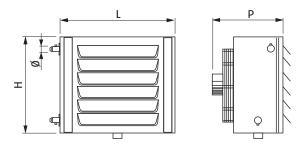


Model			nsions im	
	А	A1	В	B1
Model 09	614	440	295	235
Models 15-17	974	800	295	235
Model 21	1074	800	322	235
Model 24	1314	1070	322	280
Models 36-43	1314	1070	372	280

Water hot air generators

Nuovo Acu-Nuovo Acu F





- Heating and cooling versions
- Helicoidal fan

Description	H mm	L mm	P mm	ø mm	Net weight kg
NUOVO ACU 13 M	390	555	370	1"	15
NUOVO ACU 23 M	440	605	396	1"	18
NUOVO ACU 33 M	490	655	402	1"	21
NUOVO ACU 43 M	540	705	402	1"	24
NUOVO ACU 53 M	590	755	402	1"	28
NUOVO ACU 63 M	640	805	402	1"1/4	32
NUOVO ACU 73 T	690	855	460	1"1/4	43
NUOVO ACU 23 F	440	605	396	1"	18
NUOVO ACU 33 F	490	655	402	1"	21
NUOVO ACU 43 F	540	705	402	1"	24
NUOVO ACU 63 F	640	805	402	1" 1/4	32

NUOVO ACU and NUOVO ACU F are water air-heaters designed for the heating and cooling of small and medium-sized areas, such as warehouses, storehouses, laboratories, sports centres.

The NUOVO ACU consists of 3-ranks coils for applications with low temperature warm water. The NUOVO ACU F is specifically designed for cooling and consists of 3-ranks copper coils with condensate trap.

- Low noise level
- Reduced dimensions
- Coil with coupling provided with vent
- Reversible hydraulic connections
- Possibility of ceiling installation with specific accessory kit (only heating version, not for F versions)
- Available as single-phase (16 models) and three-phase (1 model)
- 10 models
- Wide range of accessories
- The range consists of 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.
- Range consists of:
 - 7 models with 3 row coils with output from 17,3 to 63 kW
 - 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kWa.

TERMINAL UNITS

TECHNICAL DATA (HEATING VERSION)

Description	Power heating (*) kW	Air flow rate (**) m³/h	Motor	Nr. revs/min (***)	Code		
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS							
NUOVO ACU 13M	17.3	1.550	Single-phase	1400-900-700	4152422		
NUOVO ACU 23M	23.7	2.300	Single-phase	1400-900-700	4152424		
NUOVO ACU 33M	28.5	2.550	Single-phase	1400-900-700	4152426		
NUOVO ACU 43M	37.5	3.400	Single-phase	1400-900-700	4152428		
NUOVO ACU 53M	44.0	3.850	Single-phase	1400-900-700	4152430		
NUOVO ACU 63M	54.1	4.900	Single-phase	1400-900-700	4152432		
NUOVO ACU 73T	61.2	6.150	Three-phase	900-700	4152414		

^(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar, fan at the maximum speed. (**) Performance refer to fan at the maximum speed. (***) The variation of revolutions number can be obtained by applying specific accessories.

TECHNICAL DATA (COOLING VERSION)

Description	Power heating (*) kW	Power cooling (**) kW	Air flow rate m³/h	Motor	Nr. revs/min	Notes	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS FOR COOLING							
NUOVO ACU 23F	19,6	10,2	1.520	Single-phase	900	(D)	4152501
NUOVO ACU 33F	24,5	12,9	1.900	Single-phase	900	(D)	4152502
NUOVO ACU 43F	27,9	15,1	2.000	Single-phase	900	(D)	4152503
NUOVO ACU 63F	42,2	21,5	3.150	Single-phase	900	(D)	4152504

Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temparature +15 °C, 50% r.h., 1013 mbar.

ACCESSORIES

Description	Destination	Code
Single-phase 4-position speed regulator kit	NUOVO ACU 13-63 M NUOVO ACU 23-63 F	20092637
Three-phase control panel kit	NUOVO ACU 73 T	4155602
Three-phase speed manual selector kit	NUOVO ACU 73 T	4155604
Support brackets	All models	4155606
Ceiling installation kit	NUOVO ACU 13 M	4155609
Ceiling installation kit	NUOVO ACU 23 M	4155611
Ceiling installation kit	NUOVO ACU 33 M	4155613
Ceiling installation kit	NUOVO ACU 43 M	4155615
Ceiling installation kit	NUOVO ACU 53 M	4155617
Ceiling installation kit	NUOVO ACU 63 M	4155619
Ceiling installation kit	NUOVO ACU 73 T	4155620
Vertical dampers kit	NUOVO ACU 13 M	4155626
Vertical dampers kit	NUOVO ACU 23 M - 23 F	4155628
Vertical dampers kit	NUOVO ACU 33 M - 33 F	4155630
Vertical dampers kit	NUOVO ACU 43 M - 43 F	4155632
Vertical dampers kit	NUOVO ACU 53 M	4155634
Vertical dampers kit	NUOVO ACU 63 M - 63 F	4155636
Vertical dampers kit	NUOVO ACU 73 T	4155638

Performance refer to the following conditions: ΔT water 7–12 °C, inlet air termperature +30 °C, 60% r.h., 1013 mbar. Availability of the material at our warehouse: 30 working days from the date of the order's validation.

AUGUST 2024 EDITION



SYSTEM COMPLEMENTARY ITEMS	٠
THERMOSTAT AND CHRONOTERMOSTAT	420
HEAT-EXCHANGERS	426
WATER CIRCULATORS	445

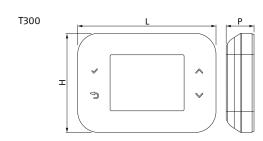
THERMOSTAT AND CHRONOTERMOSTAT

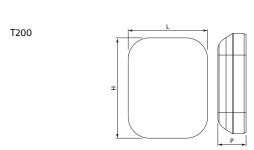


AUGUST 2024 EDITION 420

Smart remote control

Hi, Comfort T300







- · Multiple manageable energy sources (gas, electric, hybrid)
- Latest generation APP
- Cooling and heating efficiency

Description	H mm	L mm	P mm
Hi, Comfort T300	95	132	95
Hi, Comfort T200	96	71,8	26

Hi, Comfort T300 combines the functions of thermostat for the first zone of the home, system manager for heating and cooling generation systems, and gateway for internet access, allowing the use of Hi, Comfort app.

With Hi, comfort T200 also allows multi-zone control. Hi, Comfort T300, in fact, communicates via ModBUS with the heating and cooling generation section (boiler and heat pump) and in wireless communication (radio) with any Hi, Comfort T200 for local control. With the integrated gateway it then connects to the home router to guarantee access to the Internet and the use of the Hi, Comfort app.

TECHNICAL DATA

Description	Code
Hi, Comfort T300	20205322

RANGE DESCRIPTION

Drawing	Description	Code
14. Comfur!	Environment control Hi, Comfort T200 To be used in combination with a controller via RF communication. Advanced environment sensor, equipped with LCD display, allowing to view and adjust the temperature and the environment set, and the operating mode of the system and the zone it is associated with. Powered by 2 AA batteries. Supplied with plastic support for shelf installation. Class-ErP Contribution: VI-4% (*); I-1% (**).	20211852

- (*) With connection via OTBus. (**) In on/off connection.

TERMINAL UNITS

RIELLO

Smart remote control

Hi, Comfort T100 Wi-Fi









- Modulating room controls
- Remote interface for boiler
- Remote management through APP

Description	H	L	P
	mm	mm	mm
Hi, Comfort T100 Wi-Fi	89	135	28

Hi, Comfort is the smart and easy solution by Riello to manage your domestic comfort both through the traditional wall control and the new app Hi, Comfort, freely downloadable for iOS and Android systems, that permits to easy control the boiler and the temperature inside the house, making a fantastic user experience for end user a real thing. Hi, Comfort app, in fact, meets and respect all the standards that current market requires in terms of simplicity of usage, wide compatibility and highest security.

Hi, Comfort is available for OT connection to better exploit modulation capability of the boiler (reaching A+ standard, according to EU Delegated Regulation No. 811/2013) or with On/Off to reach maximum simplicity.

It is possible to control up to 8 heating zones, each one controlled by its own Hi, Comfort to independently set temperature and time windows

Installing Hi, Comfort is easy and in case of replacement of an old thermostat no renovation of the electric wiring is required. Hi, Comfort is powered by batteries, thus allowing a truly wireless installation: Hi, Comfort can be installed anywhere in the house and connected to the boiler through Hi, Comfort G100–W or radio base station Hi, Comfort G100–R. All procedures that with a traditional thermostat might look complicated, such as daily/weekly programming, are now easily within everyone's means thanks to touch screen technology.

TECHNICAL DATA

Description	Notes	Code
Hi, Comfort T100 Wi-Fi		20193354
Hi, Comfort T100		20193352
Hi, Comfort G100-W		20193355
Hi, Comfort G100-R		20193356
ITRF11 interface board	(1)	20164477

(1) Only for "old model" Family Condens.

RANGE DESCRIPTION

Drawing	Description	Code
20.8 a	Hi, Comfort T100 Wi-Fi Complete KIT for wi-fi installation, containing a room control Hi, Comfort T100 and gateway Hi, Comfort G100-W. Package includes batteries, wires, transformer, screws, anchors, double-sided tape, magnetic tape and technical instructions. Class-ErP grant: VI-4% (*); I-1% (**).	20193354
20.8	Hi, Comfort T100 Room thermostat Hi, Comfort T100 ideal for replacement and new buildings, both for single zone and for multi-zones application. Hi, Comfort T100 can be connected to the internet coupled with Hi, Comfort G100-W (optional). Package includes batteries, screws, anchors, double-sided tape and technical instructions. Class-ErP grant: V-3% (*); I-1% (**).	20193352
N. Gorbet	Hi, Comfort G100-W Hi, Comfort G100-W is the device permitting internet connection through domestic Wi-Fi net. It allows as well OT connection with the boiler for remote advanced control. Package includes wires, transformer, double-sided tape.	20193355
N. Gorden	Hi, Comfort G100-R Radio-frequency based device allowing wireless connection of control Hi, Comfort T100 to the boiler (both ON/OFF and through OTBus). It can be used as well when weakness of Wi-Fi signal preclude to install Hi, Comfort G100-W close to the boiler.	20193356
	ITRF11 interface board (Only for Family Condens "former version"). To be used according to the kind of boiler (consult dedicated section) in OTBus operation. For operation in ON/OFF mode it is not required.	20164477

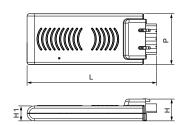
^(*) With connection via OTBus. (**) In on/off connection.

Smart key

Hi, Comfort K100







- Remote control
- Updated App
- Easy to install

Description	H	H1	L	P
	mm	mm	mm	mm
Hi, Comfort K100	14.6	10	86.8	34

Smart Key Hi, Comfort K100 permits to make boilers smart without necessarily changing your thermostat, for the highest installation easiness: its plug&play installation and guided commissioning permit to be operative quickly.

With Hi, Comfort K100 it is possible to control remotely the boiler, set parameters and reduce consumptions avoiding useless heating hours. New Hi, Comfort App is enriched with newly developed functions to grant a great online experience for end-users, like baby function that set a maximum of DHW temperature supplied by shower. Hi, comfort K100 requires a ModBus connection in the boiler.

TECHNICAL DATA

	Description	Code
Hi, Comfort k100		20168501

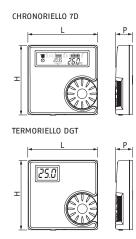
NOTE: available from the second quarter of 2022.



Thermostats and chronostats

ChronoRiello





 The ChronoRiello are digital programmable thermostats for programming both daily and weekly temperature, in heating mode and allow optimal management of the system

Description	H mm	L mm	P mm
TERMORIELLO DGT	86	86	20
TERMORIELLO DGT WIRELESS	86	86	20
CHRONORIELLO 7D	86	86	20
CHRONORIELLO 7D WIRELESS	86	86	20

TERMORIELLO DGT

Room thermostat with digital display.

TERMORIELLO DGT WIRELESS

Room thermostat with digital display.

CHRONORIELLO 7D

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).

Personalized weekly programming. Cooling function (it is necessary for this function to install an external separation relay). Party function (always warm up request and programmed time slots ignored). Daily band with time division in 60 minute segments.

CHRONORIELLO 7D WIRELESS

Digital weekly chronothermostat digital display in radio frequency.

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze).

Personalized weekly programming. Party function (heating request always active at programmed time slots ignored). Daily band with time division in 60 minute segments.

- Simplicity of installation
- Ease of use
- Temperature selection knob on thermostat front
- Calibration probe on all models
- Series batteries on all models
- The wireless models work in radio frequency allowing the connection to the boiler without the use of electric cables
- On / off hysteresis can be calibrated on all models.

TECHNICAL DATA

Description	Туре	Code
Termoriello dgt	Thermostat	20059640
Termoriello dgt Wireless	Radio frequency thermostat	20063871
ChronoRiello 7D	Weekly programmable thermostat	20063873
ChronoRiello 7D Wireless	Digital weekly chronothermostat digital display in radio frequency	20101747

RIELLO RIELLO

HEAT-EXCHANGERS



EAT PUMI

VLL-HUNG 301LERS

> OOR-STANDIN BOILERS

> > NATER-HEATER!

SOLAR THERMAL AND CYLINDERS

NTRALIZED HEATING

AIR CONDITIONING

Y TERMINAL UNITS

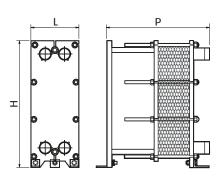
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426

Plate heat-exchanger

Riello HEATgate





• Plate heat-exchangers for heat generators, heat pumps and solar applications

Description	Plates Nr.	Н	L	Р
Description	from - to	mm	mm	mm
CD 20	11-29	470	200	252
SP 20	41-49	470	200	352
	17-27	755	200	252
SP 30	37	755	200	352
	53-69	755	200	552
	21-41	678	310	408
SP 35	49-71	678	310	548
	81-117	678	310	688
SP 40	17-41	729	385	408
	21-39	1008	310	408
SP 45	45-61	1008	310	548
	73	1008	310	688
	35-41	992	385	408
SP 50	45-71	992	385	548
	79-101	992	385	688
SD 60	41-101	1124	509	790
SP 60	109-201	1124	509	1290

RIELLO HEATgate is a range of inspectable plates heat-exchangers created by RIELLO to suit as many applications as possible. Its technical features make it a high-quality, long-lasting product, while ensuring the highest efficiency and reliability during the

The RIELLO HEATgate range consists of heat-exchangers with plates made of stainless steel AISI316, NBR or EPDM peroxide gaskets

(according to the application), and is equipped with threaded couplings made of AISI316.

The heat-exchanger structure ensure tightness up to 10 bars. The different sizes perfectly meet the thermal programmes and applications shown in the table, thus ensuring high efficiency and reduced pressure drops.

Ease of maintenance thanks to the quality of materials.

TECHNICAL DATA

Description	Plates	DN	MIX (*)	Weight	Kit typ	e (**)	Code
·	Nr.		%	kg	Insulation	Feet	
HEAT-EXCHANGER AISI 316 L, WIT	H EPDM PERO	XIDE GASKETS					
SP 20-DN32 29 (29A) E	29	Rp 1" 1/4 (Gas - M)	100%	31,3	Kit C1	Kit P1	20200581
SP 20-DN32 41 (41A) E	41	Rp 1" 1/4 (Gas - M)	100%	34,7	Kit C2	Kit P1	20200583
SP 30-DN32 17 (17A) E	17	Rp 1" 1/4 (Gas - M)	100%	45	Kit C3	Kit P1	20200584
SP 30-DN32 27 (27A) E	27	Rp 1" 1/4 (Gas - M)	100%	48,7	Kit C3	Kit P1	20200585
SP 30-DN32 37 (37A) E	37	Rp 1" 1/4 (Gas - M)	100%	53,4	Kit C4	Kit P1	20200586
SP 30-DN32 53 (53A) E	53	Rp 1" 1/4 (Gas - M)	100%	61,5	Kit C5	Kit P1	20200587
SP 30-DN32 69 (69A) E SP 45-DN50 21 (11) E	69 21	Rp 1" 1/4 (Gas - M) Rp 2" (Gas - M)	100% 50%	67,4	Kit C5 Kit C10	Kit P1 Kit P2	20200588
SP 45-DN50 29 (15) E	29	Rp 2" (Gas - M)	50%	119,7 125,2	Kit Cio	Kit P2	20200590
SP 45-DN50 33 (17) E	33	Rp 2" (Gas - M)	50%	123,2	Kit C10	Kit P2	20200590
SP 45-DN50 39 (20) E	39	Rp 2" (Gas - M)	50%	132,2	Kit C10	Kit P2	20200592
SP 45-DN50 45 (23) E	45	Rp 2" (Gas - M)	50%	140,6	Kit C11	Kit P2	20200593
SP 45-DN50 51 (26) E	51	Rp 2" (Gas - M)	50%	144,7	Kit C11	Kit P2	20200594
SP 45-DN50 61 (31) E	61	Rp 2" (Gas - M)	50%	151,6	Kit C11	Kit P2	20200595
SP 45-DN50 73 (37) E	73	Rp 2" (Gas - M)	50%	164,2	Kit C12	Kit P2	20200596
SP 50-DN65 69 (52) E	69	Rp 2" 1/2 (Gas - M)	75%	217,7	Kit C15	Kit P2	20200598
SP 50-DN65 87 (66) E SP 50-DN65 101 (76) E	87	Rp 2" 1/2 (Gas - M) Rp 2" 1/2 (Gas - M)	75% 75%	238,1	Kit C16 Kit C16	Kit P2 Kit P2	20200599 20200600
SP 60-DN100 87 (87) E	101 87	DN100 - PN16	100%	250,1 375,7	Kit Ci6 Kit C17	Kit P2 Kit P3	20200600
SP 60-DN100 87 (87) E	101	DN100 - PN16	100%	391,7	Kit C17	Kit P3	20200601
SP 60-DN100 115 (115) E	115	DN100 - PN16	100%	431,2	Kit C18	Kit P3	20200603
SP 60-DN100 129 (129) E	129	DN100 - PN16	100%	447,1	Kit C18	Kit P3	20200604
PLATE HEAT-EXCHANGER AISI 316	L, WITH NBR						
SP 20-DN32 11 (11) N	11	Rp 1" 1/4 (Gas - M)	100%	27,1	Kit C1	Kit P1	20200606
SP 20-DN32 21 (21) N	21	Rp 1" 1/4 (Gas - M)	100%	29,4	Kit C1	Kit P1	20200607
SP 20-DN32 29 (29) N SP 20-DN32 41 (41) N	29 41	Rp 1" 1/4 (Gas - M) Rp 1" 1/4 (Gas - M)	100% 100%	31,2	Kit C1 Kit C2	Kit P1 Kit P1	20200608
SP 20-DN32 41 (41) N	49	Rp 1" 1/4 (Gas - M)	100%	34,8 36,6	Kit C2	Kit P1	20200610
SP 35-DN50 21 (21) N	21	Rp 2" (Gas - M)	100%	79,2	Kit C6	Kit P2	20200611
SP 35-DN50 27 (27) N	27	Rp 2" (Gas - M)	100%	81,7	Kit C6	Kit P2	20200613
SP 35-DN50 33 (33) N	33	Rp 2" (Gas - M)	100%	84,3	Kit C6	Kit P2	20200614
SP 35-DN50 41 (41) N	41	Rp 2" (Gas - M)	100%	87,7	Kit C6	Kit P2	20200615
SP 35-DN50 49 (49) N	49	Rp 2" (Gas - M)	100%	94,7	Kit C7	Kit P2	20200616
SP 35-DN50 53 (53) N	53	Rp 2" (Gas - M)	100%	96,4	Kit C7	Kit P2	20200618
SP 35-DN50 61 (61) N SP 35-DN50 71 (71) N	61 71	Rp 2" (Gas - M) Rp 2" (Gas - M)	100% 100%	99,8	Kit C7 Kit C7	Kit P2 Kit P2	20200619 20200620
SP 35-DN50 81 (81) N	81	Rp 2" (Gas - M)	100%	104,1 111,9	Kit C8	Kit P2	20200620
SP 35-DN50 89 (89) N	89	Rp 2" (Gas - M)	100%	115,3	Kit C8	Kit P2	20200622
SP 35-DN50 101 (101) N	101	Rp 2" (Gas - M)	100%	120,4	Kit C8	Kit P2	20200623
SP 35-DN50 117 (117) N	117	Rp 2" (Gas - M)	100%	124,1	Kit C8	Kit P2	20209452
SP 40-DN65 17 (17) N	17	Rp 2" 1/2 (Gas - M)	100%	102,3	Kit C13	Kit P2	20200624
SP 40-DN65 21 (21) N	21	Rp 2" 1/2 (Gas - M)	100%	104,7	Kit C13	Kit P2	20200626
SP 40-DN65 25 (25) N	25	Rp 2" 1/2 (Gas - M)	100%	107	Kit C13	Kit P2	20200628
SP 40-DN65 33 (33) N SP 40-DN65 41 (41) N	33 41	Rp 2" 1/2 (Gas - M) Rp 2" 1/2 (Gas - M)	100% 100%	111,7	Kit C13 Kit C13	Kit P2 Kit P2	20200631 20200633
SP 50-DN65 35 (14) N	35	Rp 2" 1/2 (Gas - M)	40%	116,4 183,6	Kit C13	Kit P2	20200635
SP 50-DN65 41 (17) N	41	Rp 2" 1/2 (Gas - M)	40%	188,7	Kit C14	Kit P2	20200637
SP 50-DN65 45 (18) N	45	Rp 2" 1/2 (Gas - M)	40%	197,1	Kit C15	Kit P2	20200638
SP 50-DN65 51 (21) N	51	Rp 2" 1/2 (Gas - M)	40%	202,2	Kit C15	Kit P2	20200640
SP 50-DN65 55 (22) N	55	Rp 2" 1/2 (Gas - M)	40%	205,7	Kit C15	Kit P2	20200642
SP 50-DN65 61 (25) N	61	Rp 2" 1/2 (Gas - M)	40%	210,8	Kit C15	Kit P2	20200644
SP 50-DN65 65 (26) N	65	Rp 2" 1/2 (Gas - M)	40%	214,3	Kit C15	Kit P2	20200645
SP 50-DN65 71 (29) N SP 50-DN65 79 (32) N	71 79	Rp 2" 1/2 (Gas - M) Rp 2" 1/2 (Gas - M)	40% 40%	219,4 231,2	Kit C15 Kit C16	Kit P2 Kit P2	20200646 20200647
SP 60-DN100 41 (33) N	41	DN100 - PN16	80%	323,7	Kit Cio	Kit P2	20200648
SP 60-DN100 45 (36) N	45	DN100 - PN16	80%	328,3	Kit C17	Kit P3	20200658
SP 60-DN100 51 (41) N	51	DN100 - PN16	80%	335,2	Kit C17	Kit P3	20200659
SP 60-DN100 61 (49) N	61	DN100 - PN16	80%	346,8	Kit C17	Kit P3	20200663
SP 60-DN100 67 (54) N	67	DN100 - PN16	80%	353,7	Kit C17	Kit P3	20200665
SP 60-DN100 77 (62) N	77	DN100 - PN16	80%	365,3	Kit C17	Kit P3	20200667
SP 60-DN100 87 (70) N	87	DN100 - PN16	80%	376,8	Kit C17	Kit P3	20200670
SP 60-DN100 97 (78) N	97 109	DN100 - PN16 DN100 - PN16	80% 80%	388,4 425,7	Kit C17 Kit C18	Kit P3 Kit P3	20200672 20200673
CD 60-DN100 100 (00) N		· INNION - PINIO	0070	4427,1	NIL CIO	NIL PO	20200013
SP 60-DN100 109 (88) N SP 60-DN100 119 (96) N			80%		Kit C12	Kit D⊋	20200671
SP 60-DN100 119 (96) N	119	DN100 - PN16	80% 80%	437,3	Kit C18 Kit C18	Kit P3 Kit P3	20200674 20200675
			80% 80% 80%		Kit C18 Kit C18 Kit C18	Kit P3 Kit P3 Kit P3	20200674 20200675 20200676

^{(*) %} of high efficiency plates on the total (**) See matching table with insulation kit page 429

INSULATION KITS MATCHING TABLE

Thermoformed insulation kits to combine with the heatgate plate heat exchangers for high and low temperature applications.

Description	Insulation kit type	Exchanger type	Maximum plate nr.	Code	
Insulation kit SP 20 29	Kit C1	20	29	20096860	
Insulation kit SP 20 49	Kit C2	20	49	20096862	
Insulation kit SP 30 29	Kit C3	30	29	20096863	
Insulation kit SP 30 49	Kit C4	30	49	20096864	
Insulation kit SP 30 75	Kit C5	30	75	20096865	
Insulation kit SP 35 41	Kit C6	35	41	20140442	
Insulation kit SP 35 71	Kit C7	35	71	20140443	
Insulation kit SP 35 101	Kit C8	35	101	20140444	
Insulation kit SP 35 151	Kit C9	35	151	20140445	
Insulation kit SP 45 41	Kit C10	45	41	20201531	
Insulation kit SP 45 71	Kit C11	45	71	20201532	
Insulation kit SP 45 101	Kit C12	45	101	20201533	
Insulation kit SP 40 41	Kit C13	40	41	20201534	
Insulation kit SP 50 41	Kit C14	50	41	20201537	
Insulation kit SP 50 71	Kit C15	50	71	20201538	
Insulation kit SP 50 101	Kit C16	50	101	20201539	
Insulation kit SP 60 101	Kit C17	60	101	20096918	
Insulation kit SP 60 201	Kit C18	60	201	20116198	

FEET MATCHING TABLE

Description	Feet kit	Exchanger type	Code
Ground fixing kit SP 20-30	Kit P1	20-30	20120281
Ground fixing kit SP 35-40-45-50	Kit P2	35-40-45-50	20120282
Ground fixing kit SP 60	Kit P3	60	20120284

PLATE HEAT EXCHANGER COMBINATIONS FOR BOILER OPERATION WITH DIFFERENT ΔT mI

CONDEXA HPR

RIELLO

	Description		Plate heat exchangers						
			80°C 70°C 50°C	ΔT ml = 10 °C ΔT primary/secon TAverage seconda		85°C 75°C 60°C	ΔT ml=7.2 °C ΔT primary = 20 ° ΔT secondary = 1! TAverage secondar	5 °C	
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code	
	CONDEXA HPR 2x 35	70	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	
	CONDEXA HPR 2x 45	90	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	
2	CONDEXA HPR 2x 55	110	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
	CONDEXA HPR 2x 70	140	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
	CONDEXA HPR 3x 35	105	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	
_	CONDEXA HPR 3x 45	140	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
3	CONDEXA HPR 3x 55	165	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	
	CONDEXA HPR 3x 70	210	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	
	CONDEXA HPR 4x 35	140	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
	CONDEXA HPR 4x 45	180	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	
4	CONDEXA HPR 4x 55	220	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618	
	CONDEXA HPR 4x 70	280	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	

(*) G-M: Gas - M

	Description		Plate heat exchangers						
			80°C 70°C 50°C	ΔT ml = 10 °C ΔT primary/secor T Average secondal		85°C 75°C 60°C	ΔT ml=7.2 °C ΔT primary = 20 ° ΔT secondary = 1! TAverage secondar	o °C	
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code	
	CONDEXA PRO 2x 57 P	114	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
2	CONDEXA PRO 2x 70 P	136	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	
	CONDEXA PRO 2x 90	180	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	
	CONDEXA PRO 2x 100	194	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	
	CONDEXA PRO 2x 115	224	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618	
	CONDEXA PRO 2x 135	262	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	
	CONDEXA PRO 3x 57 P	171	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	
	CONDEXA PRO 3x 70 P	204	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	
_	CONDEXA PRO 3x 90	270	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	
3	CONDEXA PRO 3x 100	291	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620	
	CONDEXA PRO 3x 115	336	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621	
	CONDEXA PRO 3x 135	393	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622	
	CONDEXA PRO 4x 57 P	228	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618	
	CONDEXA PRO 4x 70 P	272	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	
	CONDEXA PRO 4x 90	360	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621	
4	CONDEXA PRO 4x 100	388	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622	
	CONDEXA PRO 4x 115	448	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623	
-	CONDEXA PRO 4x 135	524	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642	

CONDEXA PRO

	Description				Plate heat	exchangers		
			80°C 70°C 50°C	ΔT ml = 10 °C ΔT primary/secor T Average secondar		85°C 75°C 60°C	ΔT ml=7.2 °C ΔT primary = 20 ° ΔT secondary = 1! TAverage secondar	5 °C
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	CONDEXA PRO 5x 57 P	285	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620
	CONDEXA PRO 5x 70 P	340	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621
-	CONDEXA PRO 5x 90	450	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623
5	CONDEXA PRO 5x 100	485	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623
	CONDEXA PRO 5x 115	560	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642
	CONDEXA PRO 5x 135	655	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 65 (26) N	Rp 2" 1/2 (G-M)*	20200645
	CONDEXA PRO 6x 57 P	342	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621
	CONDEXA PRO 6x 70 P	408	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622
6	CONDEXA PRO 6x 90	540	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642
U	CONDEXA PRO 6x 100	582	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 61 (25) N	Rp 2" 1/2 (G-M)*	20200644
	CONDEXA PRO 6x 115	672	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 65 (26) N	Rp 2" 1/2 (G-M)*	20200645
	CONDEXA PRO 6x 135	786	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640	SP 50-DN65 79 (32) N	Rp 2" 1/2 (G-M)*	20200647
	CONDEXA PRO 7x 57 P	399	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622
	CONDEXA PRO 7x 70 P	476	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623
7	CONDEXA PRO 7x 90	630	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 65 (26) N	Rp 2" 1/2 (G-M)*	20200645
•	CONDEXA PRO 7x 100	679	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 71 (29) N	Rp 2" 1/2 (G-M)*	20200646
	CONDEXA PRO 7x 115	784	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640	SP 50-DN65 79 (32) N	Rp 2" 1/2 (G-M)*	20200647
	CONDEXA PRO 7x 135	917	SP 60-DN100 45 (36) N	DN100 - PN16	20200658	SP 60-DN100 67 (54) N	DN100 - PN16	20200665
	CONDEXA PRO 8x 57 P	456	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623
	CONDEXA PRO 8x 70 P	544	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642
8	CONDEXA PRO 8x 90	720	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640	SP 50-DN65 71 (29) N	Rp 2" 1/2 (G-M)*	20200646
Ü	CONDEXA PRO 8x 100	776	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642	SP 50-DN65 79 (32) N	Rp 2" 1/2 (G-M)*	20200647
	CONDEXA PRO 8x 115	896	SP 60-DN100 45 (36) N	DN100 - PN16	20200658	SP 60-DN100 67 (54) N	DN100 - PN16	20200665
	CONDEXA PRO 8x 135	1048	SP 60-DN100 51 (41) N	DN100 - PN16	20200659	SP 60-DN100 77 (62) N	DN100 - PN16	20200667
	CONDEXA PRO 9x 57 P	513	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640
	CONDEXA PRO 9x 70 P	612	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 61 (25) N	Rp 2" 1/2 (G-M)*	20200644
9	CONDEXA PRO 9x 90	810	SP 60-DN100 41 (33) N	DN100 - PN16	20200648	SP 60-DN100 61 (49) N	DN100 - PN16	20200663
	CONDEXA PRO 9x 100	873	SP 60-DN100 45 (36) N	DN100 - PN16	20200658	SP 60-DN100 67 (54) N	DN100 - PN16	20200665
	CONDEXA PRO 9x 115	1008	SP 60-DN100 51 (41) N	DN100 - PN16	20200659	SP 60-DN100 77 (62) N	DN100 - PN16	20200667
	CONDEXA PRO 10x 57 P	570	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 61 (25) N	Rp 2" 1/2 (G-M)*	20200644
	CONDEXA PRO 10x 70 P	680	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 71 (29) N	Rp 2" 1/2 (G-M)*	20200646
10	CONDEXA PRO 10x 90	900	SP 60-DN100 45 (36) N	DN100 - PN16	20200658	SP 60-DN100 67 (54) N	DN100 - PN16	20200665
	CONDEXA PRO 10x 100	970	SP 60-DN100 51 (41) N	DN100 - PN16	20200659	SP 60-DN100 77 (62) N	DN100 - PN16	20200667
	CONDEXA PRO 10x 115	1120	SP 60-DN100 61 (49) N	DN100 - PN16	20200663	SP 60-DN100 87 (70) N	DN100 - PN16	20200670

(*) G-M: Gas - M

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STEEL PRO POWER

	Description				Plate heat	exchangers		
		80°C 70°C 60°C 50°C	ΔT ml = 10 °C ΔT primary/secor T Average secondar		85°C 75°C 60°C	ΔT ml=7.2 °C ΔT primary = 20 ° ΔT secondary = 15 TAverage secondar	s °C	
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	STEEL PRO POWER 114-2	114	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	STEEL PRO POWER 140-2	136	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	STEEL PRO POWER 180-2	180	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616
	STEEL PRO POWER 230-2	224	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618
1	STEEL PRO POWER 270-2	262	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619
'	STEEL PRO POWER 300-3	291	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620
	STEEL PRO POWER 345-3	336	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621
	STEEL PRO POWER 405-3	393	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622
	STEEL PRO POWER 460-4	448	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 101 (101) N	Rp 2" (G-M)*	20200623
	STEEL PRO POWER 540-4	524	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642
	STEEL PRO POWER SYSTEM 675	655	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 65 (26) N	Rp 2" 1/2 (G-M)*	20200645
2	STEEL PRO POWER SYSTEM 810	786	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640	SP 50-DN65 79 (32) N	Rp 2" 1/2 (G-M)*	20200647
2	STEEL PRO POWER SYSTEM 945	917	SP 60-DN100 45 (36) N	DN100 - PN16	20200658	SP 60-DN100 67 (54) N	DN100 - PN16	20200665
	STEEL PRO POWER SYSTEM 1080	1048	SP 60-DN100 51 (41) N	DN100 - PN16	20200659	SP 60-DN100 77 (62) N	DN100 - PN16	20200667
3	STEEL PRO POWER SYSTEM 1215	1179	SP 60-DN100 61 (49) N	DN100 - PN16	20200663	SP 60-DN100 87 (70) N	DN100 - PN16	20200670
	STEEL PRO POWER SYSTEM 1350	1310	SP 60-DN100 67 (54) N	DN100 - PN16	20200665	SP 60-DN100 97 (78) N	DN100 - PN16	20200672

(*) G-M: Gas - M

Plate heat exchanger combinations for boiler operation with a mixture of water and glycol (max 40%)**

	Description		Plate	heat exchangers	
			85°C 75°C 60°C	ΔT ml=7.2 °C ΔT primary = 20 °C Glycol 40% ΔT secondary = 15 °C TAverage secondary circuit	t = 67,5 °C
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code
	STEEL PRO POWER 114-2	114	SP 45-DN50 21 (11) E	Rp 2" (G-M)*	20200589
	STEEL PRO POWER 140-2	136	SP 45-DN50 29 (15) E	Rp 2" (G-M)*	20200590
	STEEL PRO POWER 180-2	180	SP 45-DN50 29 (15) E	Rp 2" (G-M)*	20200590
	STEEL PRO POWER 230-2	224	SP 45-DN50 33 (17) E	Rp 2" (G-M)*	20200591
1	STEEL PRO POWER 270-2	262	SP 45-DN50 39 (20) E	Rp 2" (G-M)*	20200592
'	STEEL PRO POWER 300-3	291	SP 45-DN50 45 (23) E	Rp 2" (G-M)*	20200593
	STEEL PRO POWER 345-3	336	SP 45-DN50 51 (26) E	Rp 2" (G-M)*	20200594
	STEEL PRO POWER 405-3	393	SP 45-DN50 61 (31) E	Rp 2" (G-M)*	20200595
	STEEL PRO POWER 460-4	448	SP 45-DN50 73 (37) E	Rp 2" (G-M)*	20200596
	STEEL PRO POWER 540-4	524	SP 50-DN65 69 (52) E	Rp 2" 1/2 (G-M)*	20200598
	STEEL PRO POWER SYSTEM 675	655	SP 50-DN65 87 (66) E	Rp 2" 1/2 (G-M)*	20200599
2	STEEL PRO POWER SYSTEM 810	786	SP 50-DN65 101 (76) E	Rp 2" 1/2 (G-M)*	20200600
2	STEEL PRO POWER SYSTEM 945	917	SP 60-DN100 87 (87) E	DN100 - PN16	20200601
	STEEL PRO POWER SYSTEM 1080	1048	SP 60-DN100 101 (101) E	DN100 - PN16	20200602
3	STEEL PRO POWER SYSTEM 1215	1179	SP 60-DN100 115 (115) E	DN100 - PN16	20200603
3	STEEL PRO POWER SYSTEM 1350	1310	SP 60-DN100 129 (129) E	DN100 - PN16	20200604

^(*) G-M: Gas - M (**) Not compatible with containment cabinets

ALU PRO POWER

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 15 °C

	Description			Pump	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code
	ALU 115 PRO POWER	115	MAGNA3 40-120 F	Single \ 0-10V	20183650
	ALU 150 PRO POWER	150	MAGNA3 40-120 F	Single \ 0-10V	20183650
	ALU 225 PRO POWER	225	MAGNA3 40-120 F	Single \ 0-10V	20183650
	ALU 300 PRO POWER	300	MAGNA3 40-120 F	Single \ 0-10V	20183650
1	ALU 349 PRO POWER	349	MAGNA3 65-120 F	Single \ 0-10V	20183652
	ALU 375 PRO POWER	375	MAGNA3 65-120 F	Single \ 0-10V	20183652
	ALU 450 PRO POWER	450	MAGNA3 65-120 F	Single \ 0-10V	20183652
	ALU 525 PRO POWER	525	MAGNA3 65-120 F	Single \ 0-10V	20183652
	ALU 600 PRO POWER	600	MAGNA3 65-120 F	Single \ 0-10V	20183652

	Description				Plate heat e	exchangers		
			80°C 70°C	ΔT ml = 10 °C ΔT primary/secon TAverage secondary		80°C 72°C 60°C	ΔT ml=6,4 °C ΔT primary = 15 °C ΔT secondary = 12 TAverage secondar	2°C
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	ALU 115 PRO POWER	115	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	ALU 150 PRO POWER	150	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615
	ALU 225 PRO POWER	225	SP 35-DN50 41 (41) N	Rp 2" (G-M)*	20200615	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616
	ALU 300 PRO POWER	300	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 71 (71) N	Rp 2" (G-M)*	20200620
1	ALU 349 PRO POWER	349	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 81 (81) N	Rp 2" (G-M)*	20200621
	ALU 375 PRO POWER	375	SP 35-DN50 61 (61) N	Rp 2" (G-M)*	20200619	SP 35-DN50 89 (89) N	Rp 2" (G-M)*	20200622
	ALU 450 PRO POWER	450	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640
	ALU 525 PRO POWER	525	SP 50-DN65 45 (18) N	Rp 2" 1/2 (G-M)*	20200638	SP 50-DN65 61 (25) N	Rp 2" 1/2 (G-M)*	20200644
	ALU 600 PRO POWER	600	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640	SP 50-DN65 71 (29) N	Rp 2" 1/2 (G-M)*	20200646

(*) G-M: Gas - M

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 20 °C

	Description			Pump		Plate he	at exchangers	
				10		80°C 70°C	ΔT ml = 10 °C ΔT primary/secor TAverage secondar	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code	Heat exchanger model	DN	Code
	ALU 115 PRO POWER	115	MAGNA3 40-120 F	Single \ 0-10V	20183650	SP 35-DN50 21 (21) N	Rp 2" (G-M)*	20200611
	ALU 150 PRO POWER	150	MAGNA3 40-120 F	Single \ 0-10V	20183650	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	ALU 225 PRO POWER	225	MAGNA3 40-120 F	Single \ 0-10V	20183650	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	ALU 300 PRO POWER	300	MAGNA3 40-120 F	Single \ 0-10V	20183650	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616
1	ALU 349 PRO POWER	349	MAGNA3 65-120 F	Single \ 0-10V	20183652	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616
	ALU 375 PRO POWER	375	MAGNA3 65-120 F	Single \ 0-10V	20183652	SP 35-DN50 53 (53) N	Rp 2" (G-M)*	20200618
	ALU 450 PRO POWER	450	MAGNA3 65-120 F	Single \ 0-10V	20183652	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635
	ALU 525 PRO POWER	525	MAGNA3 65-120 F	Single \ 0-10V	20183652	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635
	ALU 600 PRO POWER	600	MAGNA3 65-120 F	Single \ 0-10V	20183652	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637

(*) G-M: Gas - M

AUGUST 2024 EDITION

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INSIEME EVO COND

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 10 °C

	Description			Pump		Plate h	eat exchangers	
						74°C 74°C 64°C	ΔT ml = 6 °C ΔT primary/secon TAverage secondary	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code	Heat exchanger model	DN	Code
	Insieme EVO Cond 20	19,5	_	-	-	-	_	-
	Insieme EVO Cond 25	24,2	_	-	-	-	_	-
	Insieme EVO Cond 35	33,8	_	-	-	-	_	-
1	Insieme EVO Cond 45	43,7	VegA RSHE 30-60 PN10	Single \ Standard	20182767	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608
	Insieme EVO Cond 55	53,4	VegA RSHE 30-60 PN10	Single \ Standard	20182767	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608
	Insieme EVO Cond 70	67,7	VegA RSHE 30-60 PN10	Single \ Standard	20182767	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609

(*) G-M: Gas - M

Combinations of numbs and plate heat exchangers for holler operation with primary At = 15 °C

	Description			Pump		Plate h	eat exchangers	
						80°C 70°C 55°C	ΔT ml = 10 °C ΔT primary/secon TAverage secondary	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code	Heat exchanger model	DN	Code
	Insieme EVO Cond 20	19,5	-	-	-	SP 20-DN32 11 (11) N	Rp 1" 1/4 (G-M)*	20200606
	Insieme EVO Cond 25	24,2	-	-	-	SP 20-DN32 11 (11) N	Rp 1" 1/4 (G-M)*	20200606
	Insieme EVO Cond 35	33,8	-	-	-	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
1	Insieme EVO Cond 45	43,7	VegA RMXA 32-80	Single \ Standard	20188525	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	Insieme EVO Cond 55	53,4	VegA RMXA 32-80	Single \ Standard	20188525	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	Insieme EVO Cond 70	67,7	VegA RSHE 30-60 PN10	Single \ Standard	20182767	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608

(*) G-M: Gas - M

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 20 °C

	Description			Pump		Plate h	eat exchangers	
				50		80°C 70°C 50°C	ΔT ml = 10 °C ΔT primary/secon TAverage secondary	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code	Heat exchanger model	DN	Code
	Insieme EVO Cond 20	19,5	-	-	-	SP 20-DN32 11 (11) N	Rp 1" 1/4 (G-M)*	20200606
	Insieme EVO Cond 25	24,2	-	-	-	SP 20-DN32 11 (11) N	Rp 1" 1/4 (G-M)*	20200606
4	Insieme EVO Cond 35	33,8	-	-	-	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
1	Insieme EVO Cond 45	43,7	VegA RMXA 32-40	Single \ Standard	20188523	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	Insieme EVO Cond 55	53,4	VegA RMXA 32-60	Single \ Standard	20188524	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	Insieme EVO Cond 70	67,7	VegA RMXA 32-80	Single \ Standard	20188525	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608

(*) G-M: Gas - M

TAU UNIT Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 10 °C

	Description			Pump	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code
	TAU UNIT 35	34,8	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597
	TAU UNIT 50	49	UPML 32-105/180	Single \ PWM	20125034
	TAU UNIT 70	69,9	STRATOS PARA 30/1-12	Single \ PWM	20125040
1	TAU UNIT 100	100	STRATOS PARA 30/1-12	Single \ PWM	20125040
	TAU UNIT 115	115	STRATOS PARA 30/1-12	Single \ PWM	20125040
	TAU UNIT 140	140	MAGNA3 32-120 F	Single \ 0-10V	20183636
	TAU UNIT 190	190	MAGNA3 40-120 F	Single \ 0-10V	20183650

	Description				Plate heat	exchangers		
			80°C 70°C 70°C 60°C	ΔT ml = 10 °C ΔT primary/second T Average secondary		85°C 78°C 78°C	ΔT ml=7,0 °C ΔT primary/second TAverage secondary	
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	TAU UNIT 35	34,8	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	TAU UNIT 50	49	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608
	TAU UNIT 70	69,9	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609
1	TAU UNIT 100	100	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	TAU UNIT 115	115	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	TAU UNIT 140	140	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	TAU UNIT 190	190	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616

(*) G-M: Gas - M

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TAU UNIT

RIELLO

Combinations of pumps and plate heat exchangers for boiler operation with primary $\Delta t = 15$ °C

	Description			Pump			
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code		
	TAU UNIT 35	34,8	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597		
	TAU UNIT 50	49	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597		
	TAU UNIT 70	69,9	UPM GEO 25-85/130	Single \ PWM	20147604		
1	TAU UNIT 100	100	UPML 32-105/180	Single \ PWM	20125034		
	TAU UNIT 115	115	STRATOS PARA 30/1-12	Single \ PWM	20125040		
	TAU UNIT 140	140	STRATOS PARA 30/1-12	Single \ 0-10V	20125040		
	TAU UNIT 190	190	STRATOS PARA 30/1-12	Single \ 0-10V	20125040		

	Description				Diata haat	exchangers		
	Description		80°C 70°C 55°C	ΔT ml = 10 °C ΔT primary/second TAverage secondary	dary = 15 °C	85°C 75°C	ΔT ml=7,2 °C ΔT primary = 15 °C ΔT secondary = 10 TAverage secondary	
Nr. of generators in cascade application		Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	TAU UNIT 35	34,8	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	TAU UNIT 50	49	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608
	TAU UNIT 70	69,9	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609
1	TAU UNIT 100	100	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	TAU UNIT 115	115	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	TAU UNIT 140	140	SP 20-DN32 49 (49) N	Rp 1" 1/4 (G-M)*	20200610	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	TAU UNIT 190	190	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616

^(*) G-M: Gas - M

TAU UNIT

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 20 °C

	Description			Pump	
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code
	TAU UNIT 35	34,8	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597
	TAU UNIT 50	49	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597
	TAU UNIT 70	69,9	UPM3 FLEX AS 15-70 130 H6	Single \ PWM	20147597
1	TAU UNIT 100	100	UPM GEO 25-85/130	Single \ PWM	20147604
	TAU UNIT 115	115	UPML 32-105/180	Single \ PWM	20125034
	TAU UNIT 140	140	STRATOS PARA 30/1-12	Single \ 0-10V	20125040
	TAU UNIT 190	190	STRATOS PARA 30/1-12	Single \ 0-10V	20125040

	Description				Plate heat	exchangers		
			80°C 70°C 50°C	ΔT ml = 10 °C ΔT primary/second T Average secondary		85°C 75°C 60°C	ΔT ml=7,2 °C ΔT primary = 20 °C ΔT secondary = 15 °T Average secondary	°C
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	TAU UNIT 35	34,8	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607
	TAU UNIT 50	49	SP 20-DN32 21 (21) N	Rp 1" 1/4 (G-M)*	20200607	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608
	TAU UNIT 70	69,9	SP 20-DN32 29 (29) N	Rp 1" 1/4 (G-M)*	20200608	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609
1	TAU UNIT 100	100	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609	SP 35-DN50 27 (27) N	Rp 2" (G-M)*	20200613
	TAU UNIT 115	115	SP 20-DN32 41 (41) N	Rp 1" 1/4 (G-M)*	20200609	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
	TAU UNIT 140	140	SP 20-DN32 49 (49) N	Rp 1" 1/4 (G-M)*	20200610	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614
_	TAU UNIT 190	190	SP 35-DN50 33 (33) N	Rp 2" (G-M)*	20200614	SP 35-DN50 49 (49) N	Rp 2" (G-M)*	20200616

(*) G-M: Gas - M

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TERMINAL UNITS

TAU N-OIL

RIELLO

Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 12 °C

	Description			Pump		Plate he	Plate heat exchangers		
				50		86°C 80°C 74°C 68°C	ΔT ml = 6,0 °C ΔT primary/secon T Average secondary		
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code	Heat exchanger model	DN	Code	
			VegA RSHE 40-30 PN6/10	Single \ Standard	20182773	55 . 5 . 5 . 5 . (5 d) W	5 -11 -12 (5 -14)		
	TAU 115 N - OIL - OIL PRO	112,4	VegA RTHE 40-60 PN6/10	Twin \ Standard	20182785	- SP 40-DN65 21 (21) N	Rp 2" 1/2 (G-M)*	20200626	
			VegA RSHE 40-60 PN6/10	Single \ Standard	20182774	an	5 -11 -12 (5 -14)		
	TAU 150 N - OIL - OIL PRO	146,6	VegA RTHE 40-60 PN6/10	Twin \ Standard	20182785	- SP 40-DN65 25 (25) N	Rp 2" 1/2 (G-M)*	20200628	
	TALLOTO N. OIL OIL DDO		VegA RSHE 40-80 PN6/10	Single \ Standard	20182775	SD (0 DN (5 22 (22) N	Rp 2" 1/2 (G-M)*		
	TAU 210 N - OIL - OIL PRO	205,2	VegA RTHE 40-80 PN6/10	Twin \ Standard	20182786	- SP 40-DN65 33 (33) N		20200631	
	TALLOTO N. OIL OIL DDO	241.2	VegA RSHE 40-80 PN6/10	Single \ Standard	20182775	cp = c = (41) 11 = c	D. 2114/2 (C. 14)* 200		
	TAU 270 N - OIL - OIL PRO	264,3	VegA RTHE 40-80 PN6/10	Twin \ Standard	20182786	- SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	
	TAULOSO N. OU. OU. DDO		VegA RSHE 65-80 PN6/10	Single \ Standard	20182778	SD 50 DNS5 (4 (45) N	Dn 2" 1/2 (G-M)*	20200637	
	TAU 350 N - OIL - OIL PRO	342,7	VegA RTHE 65-90 PN6/10	Twin \ Standard	20182790	- SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*		
	TALL FOR NOW ON DRO		VegA RSHE 65-90 PN6/10	Single \ Standard	20182779	CD FO DNCF FF (22) N	Pp 2" 1/2 (G_M)*		
	TAU 450 N - OIL - OIL PRO	441,9	VegA RTHE 65-90 PN6/10	Twin \ Standard	20182790	- SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	2020064	
	TALL COOK OIL OIL DDO		VegA RSHE 80-90 PN10	Single \ Standard	20182782	SD 50 DN S5 50 (22) N	Rp 2" 1/2 (G-M)*	20200617	
	AU 600 N - OIL - OIL PRO 5	589,2	VegA RTHE 80-90 PN10	Twin \ Standard	20182792	- 3P 50-DN05 79 (32) N		2020064	
	TALLOGO N. OIL OIL DDO	705.6	-	-	-	CD CO DNIA00 C7 (E1) N		2020066	
	TAU 800 N - OIL - OIL PRO	785,6	-	-	-	-SP 60-DN100 67 (54) N	DNIOU - PNI6	2020066	
1	TALLAGOO N. OH. OH. DDO	000	-	-	-	CD CO DNIAGO 07 (70) N	DNI400 DNI46	2020067	
	TAU 1000 N - OIL - OIL PRO	982	-	-	-	-SP 60-DN100 87 (70) N	DN100 - PN16	20200670	
	TALL 4150 N	4430.3	-	-	-	CD CO DNIAO 07 (70) N	DNI400 DNI46	2020067	
	TAU 1150 N	1129,3	-	-	-	-SP 60-DN100 97 (78) N	DNIOU - PNI6	2020067	
	TAIL 4350 N	4227.5	-	-	-	SD CO. DNI400 400 (00) N	DNI400 DNI46	2020067	
	TAU 1250 N	1227,5	-	-	-	- SP 60-DN100 109 (88) N	DN100 - PN16	20200673	
	TAIL 16 FO. N	1423,9	-	-	-	- SP 60-DN100 119 (96) N	DN100 - PN16	2020067	
	TAU 1450 N	1423,9	-	-	-	3P 60-DN100 119 (96) N	DN100 - PN16	2020067	
	TAU 1750 N	1718,5	-	-	-	-SP 60-DN100 169 (136) N	DN100 - DN16	20200676	
	IAU I750 N	1110,5	-	-	-	-3P 60-DN 100 169 (156) N	DN100 - PN16	20200676	
	TAIL 2100 N	2062.2	-	-	-	SP 60-DN100 201 (161) N	DN100 DN16	2020067	
	TAU 2100 N	2062,2	-	-	-		DN100 - PN16	20200677	
	TAIL 2600 N	2552.3	-	-	-	SD 60-DN100 201 (161) N	DN100 - DN16	2020067	
	TAU 2600 N	2553,2	-	-	-	- SP 60-DN100 201 (161) N	DN100 - PN16 2020	20200677	
	TAIL 2000 N	2946	-	-	-	- SP 60-DN100 201 (161) N	DN100 DN16	2020067	
	TAU 3000 N	2940	-	-	-	אר סט־טואוטט 2טו (וסו) N	אוויס - אוויס - אוויס	20200677	

(*) G-M: Gas - M

TAU N-OILCombinations of pumps and plate heat exchangers for boiler operation with primary $\Delta t = 15$ °C

	Description		Pump				
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code		
	TAU 115 N - OIL - OIL PRO	112 /.	VegA RSHE 40-30 PN6/10	Single \ Standard	20182773		
	IAU 115 N - UIL - UIL PRU	112,4	VegA RTHE 40-60 PN6/10	Twin \ Standard	20182785		
	TAU 150 N - OIL - OIL PRO	146,6	VegA RSHE 40-30 PN6/10	Single \ Standard	20182773		
	IAO IJO N OIL OIL PRO	140,0	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 210 N - OIL - OIL PRO	205,2	VegA RSHE 40-60 PN6/10	Single \ Standard	2018277		
	IAO 210 N OIL OIL FRO	205,2	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 270 N - OIL - OIL PRO	264,3	VegA RSHE 40-80 PN6/10	Single \ Standard	20182775		
	IAU 270 N - OIL - OIL PRO		VegA RTHE 40-80 PN6/10	Twin \ Standard	20182786		
	TAU 350 N - OIL - OIL PRO	342,7	VegA RSHE 40-80 PN6/10	Single \ Standard	2018277		
	IAU 350 N - OIL - OIL PRO	342,1	VegA RTHE 40-80 PN6/10	Twin \ Standard	2018278		
	TAU 450 N - OIL - OIL PRO	441,9	VegA RSHE 65-80 PN6/10	Single \ Standard	2018277		
	IAU 450 N - OIL - OIL PRO	441,9	VegA RTHE 65-90 PN6/10	Twin \ Standard	2018279		
	TAIL 600 N = 011 = 011 DD0	589,2	VegA RSHE 65-90 PN6/10	Single \ Standard	20182779		
	TAU 600 N - OIL - OIL PRO		VegA RTHE 65-90 PN6/10	Twin \ Standard	2018279		
	TAU 800 N - OIL - OIL PRO	785,6	VegA RSHE 80-90 PN10	Single \ Standard	2018278		
1	IAU 800 N - OIL - OIL PRO		VegA RTHE 80-90 PN10	Twin \ Standard	2018279		
'	TAU 1000 N - OIL - OIL PRO	982	-	-	-		
	TAO TOOO N OIL OIL FILO	902	-	-	-		
	TAU 1150 N	1129,3	-	-	-		
	IAO 1130 N	1129,3	-	-	-		
	TAU 1250 N	1227,5	-	-	-		
	IAU 1230 N	1221,5	-	-	-		
	TAU 1450 N	1423,9	-	-	-		
	IAO 1430 N	1425,5	-	-	-		
	TAU 1750 N	1718,5	-	-	-		
	170 H	ל,טווו	-	-	-		
	TAU 2100 N	2062,2	-	-	-		
	INO 2100 N	2002,2	-	-	-		
	TAU 2600 N	2553,2	-	-	-		
		->>> -	-	-	-		
	TAU 3000 N	2946	-	-	-		
		->.0	-	-	-		

RIELLO

TAU N-OIL Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 15 °C

	Description				Plate heat	exchangers		
			80°C 70°C	ΔT ml = 10 °C ΔT primary/second TAverage secondary		85°C 77°C 70°C 65°C	ΔT mI=6,4 °C ΔT primary = 15 °C ΔT secondary = 12 ° TAverage secondary	
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	TAU 115 N-OIL-OIL PRO	112,4	SP 40-DN65 17 (17) N	Rp 2" 1/2 (G-M)*	20200624	SP 40-DN65 21 (21) N	Rp 2" 1/2 (G-M)*	20200626
	TAU 150 N-OIL-OIL PRO	146,6	SP 40-DN65 21 (21) N	Rp 2" 1/2 (G-M)*	20200626	SP 40-DN65 25 (25) N	Rp 2" 1/2 (G-M)*	20200628
	TAU 210 N-OIL-OIL PRO	205,2	SP 40-DN65 25 (25) N	Rp 2" 1/2 (G-M)*	20200628	SP 40-DN65 33 (33) N	Rp 2" 1/2 (G-M)*	20200631
	TAU 270 N-OIL-OIL PRO	264,3	SP 40-DN65 33 (33) N	Rp 2" 1/2 (G-M)*	20200631	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635
	TAU 350 N-OIL-OIL PRO	342,7	SP 40-DN65 41 (41) N	Rp 2" 1/2 (G-M)*	20200633	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637
	TAU 450 N-OIL-OIL PRO	441,9	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642
	TAU 600 N-OIL-OIL PRO	589,2	SP 50-DN65 55 (22) N	Rp 2" 1/2 (G-M)*	20200642	SP 50-DN65 79 (32) N	Rp 2" 1/2 (G-M)*	20200647
_	TAU 800 N-OIL-OIL PRO	785,6	SP 60-DN100 61 (49) N	DN100-PN16	20200663	SP 60-DN100 67 (54) N	DN100-PN16	20200665
1	TAU 1000 N-OIL-OIL PRO	982	SP 60-DN100 67 (54) N	DN100-PN16	20200665	SP 60-DN100 87 (70) N	DN100-PN16	20200670
	TAU 1150 N	1129,3	SP 60-DN100 77 (62) N	DN100-PN16	20200667	SP 60-DN100 97 (78) N	DN100-PN16	20200672
	TAU 1250 N	1227,5	SP 60-DN100 87 (70) N	DN100-PN16	20200670	SP 60-DN100 109 (88) N	DN100-PN16	20200673
	TAU 1450 N	1423,9	SP 60-DN100 97 (78) N	DN100-PN16	20200672	SP 60-DN100 119 (96) N	DN100-PN16	20200674
	TAU 1750 N	1718,5	SP 60-DN100 119 (96) N	DN100-PN16	20200674	SP 60-DN100 169 (136) N	DN100-PN16	20200676
	TAU 2100 N	2062,2	SP 60-DN100 139 (112) N	DN100-PN16	20200675	SP 60-DN100 201 (161) N	DN100-PN16	20200677
	TAU 2600 N	2553,2	SP 60-DN100 169 (136) N	DN100-PN16	20200676	SP 60-DN100 201 (161) N	DN100-PN16	20200677
	TAU 3000 N	2946	SP 60-DN100 201 (161) N	DN100-PN16	20200677	SP 60-DN100 201 (161) N	DN100-PN16	20200677

(*) G-M: Gas - M

TAU N-OILCombinations of pumps and plate heat exchangers for boiler operation with primary $\Delta t = 20$ °C

	Description		Pump				
Nr. of generators in cascade application	Model	Useful power kW	Model	Type/Control	Code		
	TAUL 11E N = OU = OU DDO	112 /.	VegA RSHE 40-30 PN6/10	Single \ Standard	2018277		
	TAU 115 N - OIL - OIL PRO	112,4	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 150 N - OIL - OIL PRO	146,6	VegA RSHE 40-30 PN6/10	Single \ Standard	2018277		
	IAU 150 N - OIL - OIL PRO	140,0	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 210 N - OIL - OIL PRO	205,2	VegA RSHE 40-30 PN6/10	Single \ Standard	2018277		
	TAU 210 N - OIL - OIL PRO	205,2	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 270 N - OIL - OIL PRO	264,3	VegA RSHE 40-60 PN6/10	Single \ Standard	2018277		
	TAU 270 N - OIL - OIL PRO	204,5	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 350 N - OIL - OIL PRO	342,7	VegA RSHE 40-60 PN6/10	Single \ Standard	2018277		
	IAU 550 N - OIL - OIL PRO	542,1	VegA RTHE 40-60 PN6/10	Twin \ Standard	2018278		
	TAU 450 N - OIL - OIL PRO	441,9	VegA RSHE 50-70 PN6/10	Single \ Standard	2018277		
	TAU 450 N - OIL - OIL PRO	441,9	VegA RTHE 50-70 PN6/10	Twin \ Standard	2018278		
	TAU 600 N - OIL - OIL PRO	589,2	VegA RSHE 65-90 PN6/10	Single \ Standard	2018277		
	IAU UUU N - UIL - UIL PRU	307,2	VegA RTHE 65-90 PN6/10	Twin \ Standard	2018279		
	TAU 800 N - OIL - OIL PRO	785,6	VegA RSHE 80-90 PN10	Single \ Standard	2018278		
1	IAU 800 N - OIL - OIL PRO		VegA RTHE 80-90 PN10	Twin \ Standard	2018279		
'	TAU 1000 N - OIL - OIL PRO	982	VegA RSHE 80-90 PN10	Single \ Standard	2018278		
	TAU TOOU N - OIL - OIL PRO	962	VegA RTHE 80-90 PN10	Twin \ Standard	2018279		
	TAIL 115 O. N.	1120.2	VegA RSHE 80-90 PN10	Single \ Standard	2018278		
	TAU 1150 N	1129,3	VegA RTHE 80-90 PN10	Twin \ Standard	2018279		
	TAU 1250 N	1227,5	-	-	-		
	TAU 1250 N	1221,5	-	-	-		
	TALL 1/LEO N	1/-22.0	-	-	-		
	TAU 1450 N	1423,9	-	-	-		
	TAU 1750 N	1718,5	-	-	-		
	IAU II JU N	(,0111	-	_	-		
	TAU 2100 N	2062,2	-	_	-		
	IAU 2100 N	2002,2	-	-	-		
	TAU 2600 N	2553,2	-	-	-		
	IAU 2000 N	2999,2	-	_	_		
	TAU 3000 N	2946	-	-	-		
	IAU JUUU N	2940	-	-	-		

RIELLO

TAU N-OIL Combinations of pumps and plate heat exchangers for boiler operation with primary Δt = 20 °C

	Description				Plate heat	exchangers		
			80°C 70°C	ΔT ml = 10 °C ΔT primary/second T Average secondary		85°C 75°C	ΔT mI=7,2 °C ΔT primary = 20 °C ΔT secondary = 15 T Average secondary	°C
Nr. of generators in cascade application	Model	Useful power kW	Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
	TAU 115 N-OIL-OIL PRO	112,4	SP 40-DN65 17 (17) N	Rp 2" 1/2 (G-M)*	20200624	SP 40-DN65 25 (25) N	Rp 2" 1/2 (G-M)*	20200628
	TAU 150 N-OIL-OIL PRO	146,6	SP 40-DN65 21 (21) N	Rp 2" 1/2 (G-M)*	20200626	SP 40-DN65 33 (33) N	Rp 2" 1/2 (G-M)*	20200631
	TAU 210 N-OIL-OIL PRO	205,2	SP 40-DN65 25 (25) N	Rp 2" 1/2 (G-M)*	20200628	SP 40-DN65 41 (41) N	Rp 2" 1/2 (G-M)*	20200633
	TAU 270 N-OIL-OIL PRO	264,3	SP 40-DN65 33 (33) N	Rp 2" 1/2 (G-M)*	20200631	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635
	TAU 350 N-OIL-OIL PRO	342,7	SP 40-DN65 41 (41) N	Rp 2" 1/2 (G-M)*	20200633	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637
	TAU 450 N-OIL-OIL PRO	441,9	SP 50-DN65 35 (14) N	Rp 2" 1/2 (G-M)*	20200635	SP 50-DN65 51 (21) N	Rp 2" 1/2 (G-M)*	20200640
	TAU 600 N-OIL-OIL PRO	589,2	SP 50-DN65 41 (17) N	Rp 2" 1/2 (G-M)*	20200637	SP 50-DN65 61 (25) N	Rp 2" 1/2 (G-M)*	20200644
	TAU 800 N-OIL-OIL PRO	785,6	SP 60-DN100 41 (33) N	DN100-PN16	20200648	SP 60-DN100 61 (49) N	DN100-PN16	20200663
1	TAU 1000 N-OIL-OIL PRO	982	SP 60-DN100 51 (41) N	DN100-PN16	20200659	SP 60-DN100 77 (62) N	DN100-PN16	20200667
	TAU 1150 N	1129,3	SP 60-DN100 61 (49) N	DN100-PN16	20200663	SP 60-DN100 87 (70) N	DN100-PN16	20200670
	TAU 1250 N	1227,5	SP 60-DN100 61 (49) N	DN100-PN16	20200663	SP 60-DN100 97 (78) N	DN100-PN16	20200672
	TAU 1450 N	1423,9	SP 60-DN100 77 (62) N	DN100-PN16	20200667	SP 60-DN100 109 (88) N	DN100-PN16	20200673
	TAU 1750 N	1718,5	SP 60-DN100 87 (70) N	DN100-PN16	20200670	SP 60-DN100 139 (112) N	DN100-PN16	20200675
	TAU 2100 N	2062,2	SP 60-DN100 97 (78) N	DN100-PN16	20200672	SP 60-DN100 169 (136) N	DN100-PN16	20200676
	TAU 2600 N	2553,2	SP 60-DN100 119 (96) N	DN100-PN16	20200674	SP 60-DN100 201 (161) N	DN100-PN16	20200677
	TAU 3000 N	2946	SP 60-DN100 139 (112) N	DN100-PN16	20200675	SP 60-DN100 201 (161) N	DN100-PN16	20200677

(*) G-M: Gas - M

SOLAR THERMAL WITH SWIMMING POOL

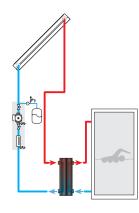
Installation power

kW	Code	Model			
20	20200581	SP 20-DN32 29 (29A) E			
35	20200583	SP 20-DN32 41 (41A) E			
50	20200589	SP 45-DN50 21 (11) E			
75	20200590	SP 45-DN50 29 (15) E			
100	20200591	SP 45-DN50 33 (17) E			

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	Glyc. 30%	55	35	≤ 2
Secondary	H ₂ O	29	33	≤ 20



SOLAR THERMAL WITH PUFFER

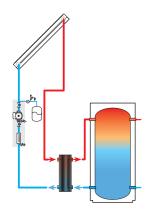
Installation power

kW	Code	Model
20	20200584	SP 30-DN32 17 (17A) E
35	20200585	SP 30-DN32 27 (27A) E
50	20200586	SP 30-DN32 37 (37A) E
75	20200587	SP 30-DN32 53 (53A) E
100	20200588	SP 30-DN32 69 (69A) E

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	Glyc. 30%	60	40	≤ 5
Secondary	H₂O	35	55	≤ 5



INSTANTANEOUS DHW PRODUCTION

Installation power

	. porto.	
kW	Code	Model
50	20200584	SP 30-DN32 17 (17A) E
75	20200585	SP 30-DN32 27 (27A) E
115	20200586	SP 30-DN32 37 (37A) E
130	20200624	SP 40-DN65 17 (17) N
150	20200626	SP 40-DN65 21 (21) N
180	20200628	SP 40-DN65 25 (25) N
240	20200631	SP 40-DN65 33 (33) N
350	20200633	SP 40-DN65 41 (41) N
450	20200637	SP 50-DN65 41 (17) N
525	20200640	SP 50-DN65 51 (21) N
600	20200644	SP 50-DN65 61 (25) N

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H₂O	50	30	≤ 20
Secondary	H₂O	10	43	≤ 20

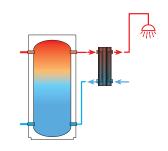
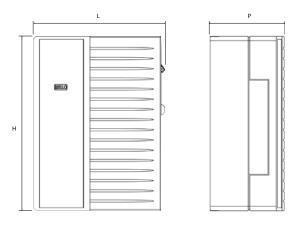


Plate heat-exchanger

HIU 40 DHW STD





 Heat exchanger that uses the heating energy produced by the centralized heating system

Description	Plates Nr.	H mm	L mm	P mm
HIU 40 DHW STD	30	600	400	250

HIU 40 DHW STD is a domestic hot water producer that uses the heating energy produced by the centralized heating system. By the heat exchanger the module produces: hygienic, fresh and clean water and prevents the legionella bacteria formation. The module can work without electricity and the control of the flow is done by th differential valve (it control the right flow independently o the differential pressure of the primary circuit range 900 l/h - 1.700 l/h) and the temperature by the setting the thermostatic valve: temperature range 40°C to 70°C (+/-1°C).

TECHNICAL DATA

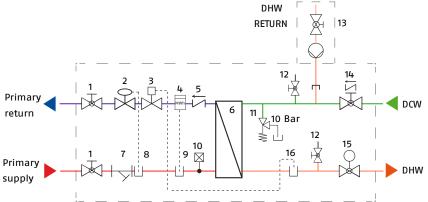
Description	Max flow rate of primary flow	Max flow rate of secondary outlet (DHW)		Max working pressure	SIINNIV	Exchange surface of plates		DHW return side connection	Max. temperature	Code
						exchanger				
HIU 40 DHW STD	1.700 l/h	40 l/min	40÷70 °C	10 bar	230 V AC 50/60	1,76 m²	G 1"B - G ³/₄"	G ³⁄4″B	90°C	20166053

NOTE: for more information refer to the technical manual

ACCESSORIES

	Description	Code
Acc. Recirculation kit for HIU 40 DHW STD		20210777

HYDRAULIC CIRCUIT



- Differential pressure valve
- 2- way thermostatic valve
- Fitting piece for heat meter Check valve
- Brazed plate iron steel heat exchanger Filter
- Sensor pocket for differential valve
- Sensor pocket for heat meter
- 10. Manual air vent valve
- 11. Safety valve12. Load/drain tap (components)
- 13. DHW return kit 14. Ball valve with check valve
- 15. Ball valve with thermometer 16. Sensor pocket for thermostatic valve (DHW supply)

WATER CIRCULATORS



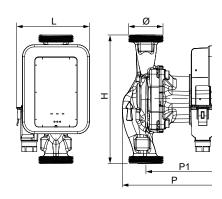
		SINGLE PUM	12	DOORTE LOW	P
G.			VEGA RMXA-RMYA 4,1-7,6 H _{MAX} (mca)		
VARIABLE SPEED	ONIC	_	page 446		
IABLE	ELECTRONIC		VEGA RSHE	7	VEGA RTHE
VAR	ш		7,4–13,5 H _{MAX} (mca)		7,6-13,0 H _{MAX} (mca)
			page 449		page 459

RIELLO

Water circulators

VegA RMXA-RMYA







- Domestic electronic single pump
- ErP ready

Description	H mm	H1 mm	L mm	P mm	P1 mm	ø mm	Net weight kg
VEGA RMXA 25-40	180	76.3	101.9	128.6	94.6	Rp 1"	2,0
VEGA RMXA 25-60	180	76.3	101.9	128.6	94.6	Rp 1"	2,0
VEGA RMXA 32-40	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,3
VegA RMXA 32-60	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,3
VegA RMXA 32-80	180	76.3	101.9	140.3	106.3	Rp 1" 1/4	2,5
VegA RMYA 25-40	130	76.3	101.9	128.6	94.6	Rp 1"	2,0
VegA RMYA 25-60	130	76.3	101.9	128.6	94.6	Rp 1"	2,0
VegA RMYA 25-80	130	76.3	101.9	128.6	94.6	Rp 1"	2,2

High efficiency single glandless circulators, ideal for domestic systems, capable of ensuring high performances and energetic saving thanks both to the self-protected motor with ECM technology and the integrated electronic control able to adapt the operation in funcion of the system requirements.

Able to operate at different speeds (min,med,max) with three different operating modes: constant differential pressure, variable differential pressure, constant speed.

Features:

- Low energetic consumptions
- Silent operation
- Three different operating modes: n=cost, Δp -c, Δp -v
- Extremely compact dimensions thanks to the electrical connector positioned laterally
- Ease of regulation: with a single regulation button performance is determined according to the needs of the installation
- Thread connections

Operating limits

- Max operating pressure: 6 bar
- Operating temperature: from -10°C up to 95°C
- Protection degree: IP X2D

TECHNICAL DATA

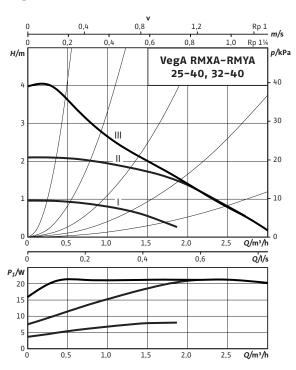
Description	Volume flow rate Q _{max} m³/h	Nominal pressure bar	Hydraulic head H _{max} mca	Code
VegA RMXA 25-40	3.0	6.0	4.1	20188521
VegA RMXA 25-60	3.0	6.0	6.0	20188522
VegA RMXA 32-40	3.0	6.0	4.1	20188523
VegA RMXA 32-60	3.0	6.0	6.0	20188524
VegA RMXA 32-80	4.3	6.0	7.6	20188525
VegA RMYA 25-40	3.0	6.0	4.1	20188507
VegA RMYA 25-60	3.0	6.0	6.0	20188517
VegA RMYA 25-80	4.3	6.0	7.6	20188520

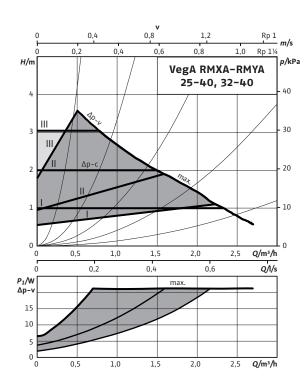
ACCESSORIES

Description	Code
BCT 25 pipe connection (DN25)	4322904
BCT 32 pipe connection (DN32)	4322906

HYDRAULIC PERFORMANCES

VegA RMXA- RMYA 25-40 VegA RMXA 32-40



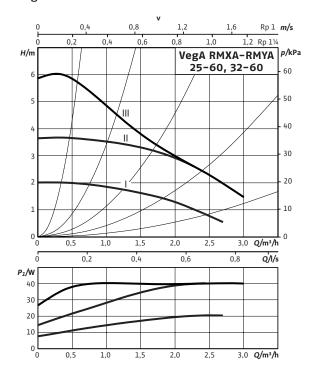


WATER-HEATERS

TERMINAL UNITS

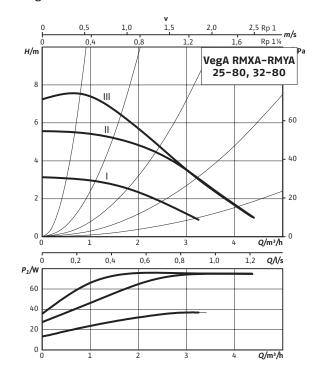
VegA RMXA-RMYA 25-60 VegA RMXA 32-60

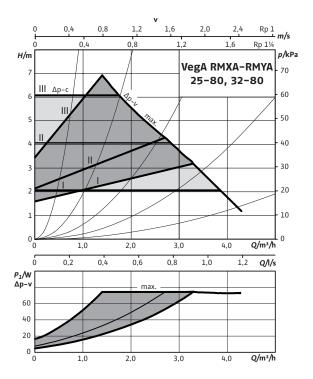
RIELLO



0,6 1,2 Rp 11/4 H/m p/kPa VegA RMXA-RMYA 25-60, 32-60 50 40 30 20 10 - 0 0,5 1,0 1,5 2,0 2,5 3,0 **Q/m³/h** 0 0,2 0,4 0,8 Q/I/s 0,6 may 30 20 1,0 1,5 2,0 2,5 3,0 **Q/m³/h**

VegA RMXA-RMYA 32-80





Water circulators

VegA RSHE





 Electronic single pumps ErP ready								
Description	H mm	H1 mm	H2 mm	L mm	P mm	P1 mm	ø mm	Net weight kg
VegA RSHE 25-60 PN10	180	90	203	102	224	180	Rp 1" ½ (*)	4,5
VegA RSHE 25-70 PN10	180	90	203	102	224	180	Rp 1" ½ (*)	4,5
VegA RSHE 25-90 PN10	180	98	233	128	245	198	Rp 1" ½ (*)	5,3
VegA RSHE 30-60 PN10	180	90	203	102	224	180	Rp 2" (*)	4,6
VegA RSHE 30-70 PN10	180	90	203	102	224	180	Rp 2" (*)	4,6
VegA RSHE 30-90 PN10	180	98	233	128	245	198	Rp 2" (*)	5,4
VegA RSHE 32-70 PN6/10	220	98	233	128	255	207	DN32-PN6/10	11
VegA RSHE 40-30 PN6/10	220	90	223	102	232	175	DN40-PN6/10	8,6
VegA RSHE 40-60 PN6/10	220	98	245	128	249	201	DN40-PN6/10	9,2
VegA RSHE 40-80 PN6/10	250	109	277	142	379	315	DN40-PN6/10	13
VegA RSHE 50-70 PN6/10	280	109	292	142	371	318	DN50-PN6/10	14,2

(*) NOTE: By means of the thread pipe connections the diameter is reduced from Rp 1" ½ to Rp 1" and from Rp 2" to Rp 1" ¼.

280

280

340

340

360

109

109

169

169

169

Wet rotor electronic circulators with high-performance motor that ensure high performance and energy savings related to the electronic management system that allows to vary the operating speed of the rotor, ensuring the correct input required by the system. Possibility to select the differential pressure regulation in constant or variable mode or to have the manual selection

292

292

340

340

360

142

142

174

174

174

318

327

334

329

330

371

384

404

395

414

DN50-PN6/10

DN65-PN6/10

DN65-PN6/10

DN65-PN6/10

DN80-PN10

14,2

16,1

25,8

27,5

30,4

Circulators suitable for all heating, air conditioning and closed refrigeration circuits.

Features:

- Low energy consumptions

VegA RSHE 50-80 PN6/10

VegA RSHE 65-80 PN6/10

VegA RSHE 65-90 PN6/10

VegA RSHE 65-110 PN6/10

VegA RSHE 80-90 PN10

- Silent operation
- Easy wiring thanks to the front accessibility to the terminal block
- Pump body material suitable to avoid the corrosion due to the condensate
- LED indicator to set up either the hydraulic head or to display the error codes
- Power supply: 230V, 50/60 Hz

Operating limits:

- Max operating pressure: 10 bar
- Temperature range: from 20 °C up to 110 °C - Protection degree: IP X4D

RIELLO

TECHNICAL DATA

Description	Volume flow rate Q _{max} m³/h	Nominal pressure bar	Maximum hydraulic head H _{max} mca	Notes	Code
VegA RSHE 25-60 PN10	8.2	10	7.4		20182746
VegA RSHE 25-70 PN10	9.6	10	10.8		20182765
VegA RSHE 25-90 PN10	11.7	10	12.1	(D)	20182766
VegA RSHE 30-60 PN10	8.2	10	7.4		20182767
VegA RSHE 30-70 PN10	9.6	10	10.8		20182768
VegA RSHE 30-90 PN10	11.7	10	12.1		20182771
VegA RSHE 32-70 PN6/10	13.0	6/10	9.0		20182772
VegA RSHE 40-30 PN6/10	12.7	6/10	5.4		20182773
VegA RSHE 40-60 PN6/10	18.2	6/10	8.5		20182774
VegA RSHE 40-80 PN6/10	24.8	6/10	13.0		20182775
VegA RSHE 50-70 PN6/10	29.0	6/10	10.2		20182776
VegA RSHE 50-80 PN6/10	31.2	6/10	12.8		20182777
VegA RSHE 65-80 PN6/10	32.0	6/10	10.1		20182778
VegA RSHE 65-90 PN6/10	46.2	6/10	11.6		20182779
VegA RSHE 65-110 PN6/10	55.5	6/10	17.1		20182781
VegA RSHE 80-90 PN10	64.0	10	13.5	(D)	20182782

⁽D) Availability of the material at our warehouse: 20 working days after the order validation date.

ACCESSORIES

Description	Notes	Code
COUNTER FLANGE KIT		
DN32 PN 6 counter flange	(D)	20158976
DN40 PN 6 counter flange	(D)	20158977
DN50 PN 6 counter flange	(D)	20158979
DN65 PN 6 counter flange	(D)	20158980
DN80 PN 10/16 counter flange	(D)	20158983
INTERMEDIATE FLANGE FOR LENGTH COMPENSATION		
DN40 intermediate flange		20158985
DN50 intermediate flange		20158986
DN65 intermediate flange		20158987
PIPE CONNECTIONS		
BCT 25 pipe connection (DN25)		4322904
BCT 32 pipe connection (DN32)		4322906
CONNECT MODULE		
Connect module	(1)	20182901

⁽D) Availability of the material at our warehouse: 7 working days after the order validation date. (1) Order one for each circulator.

ACCESSORIES MATCHING TABLE

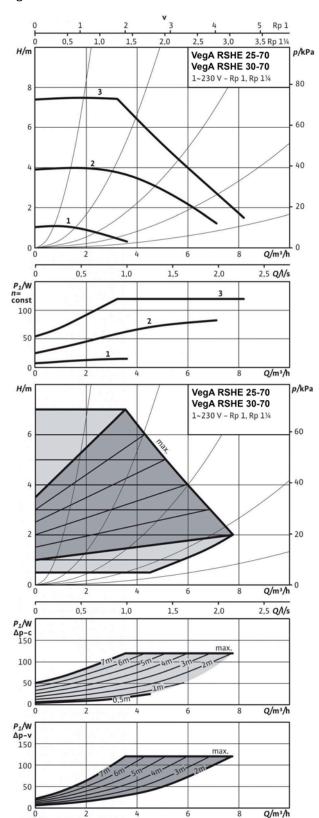
Description	Code	4322904	4322906	20158977	20158979	20158980	20158983
		BCT 25 pipe connection (DN25)	BCT 32 pipe connection (DN32)	DN40 PN6 counter flange	DN50 PN6 counter flange	DN65 PN6 counter flange	DN80 PN10/16 counter flange
VegA RSHE 25-60 PN10	20182746	•					
VegA RSHE 25-70 PN10	20182765	•					
VegA RSHE 25-90 PN10	20182766	•					
VegA RSHE 30-60 PN10	20182767		•				
VegA RSHE 30-70 PN10	20182768		•				
VegA RSHE 30-90 PN10	20182771		•				
VegA RSHE 40-30 PN6/10	20182773			•			
VegA RSHE 40-60 PN6/10	20182774			•			
VegA RSHE 40-80 PN6/10	20182775			•			
VegA RSHE 50-70 PN6/10	20182776				•		
VegA RSHE 50-80 PN6/10	20182777				•		
VegA RSHE 65-80 PN6/10	20182778					•	
VegA RSHE 65-90 PN6/10	20182779					•	
VegA RSHE 65-110 PN6/10	20182781					•	
VegA RSHE 80-90 PN10	20182782						•

TERMINAL UNITS

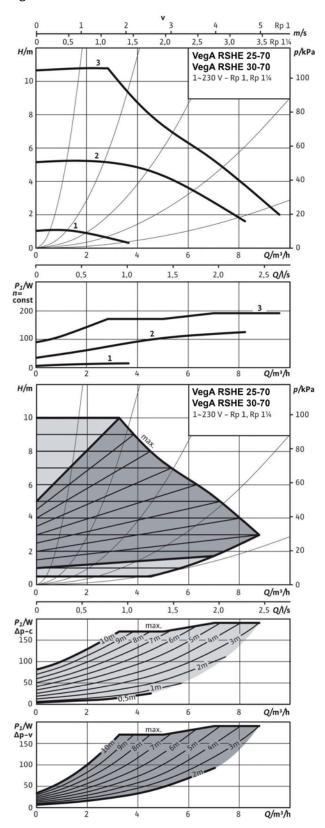
HYDRAULIC PERFORMANCES

VegA RSHE 25-60 PN10 VegA RSHE 30-60 PN10

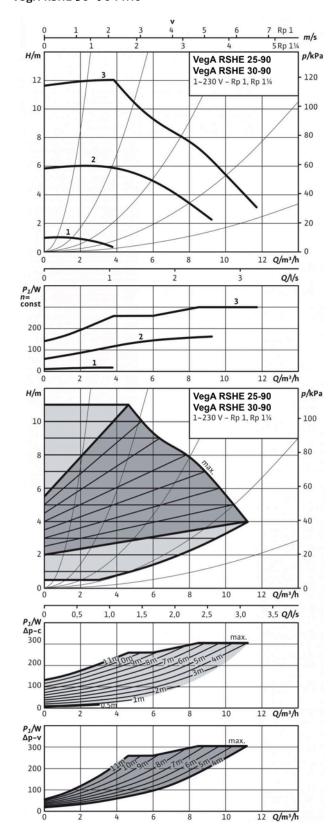
RIELLO



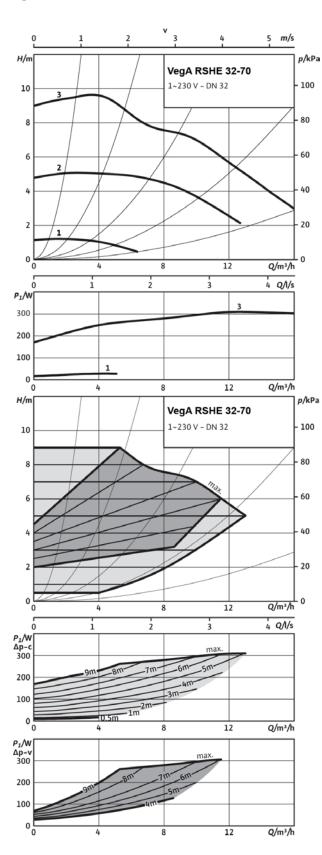
VegA RSHE 25-70 PN10 VegA RSHE 30-70 PN10



VegA RSHE 25-90 PN10 VegA RSHE 30-90 PN10



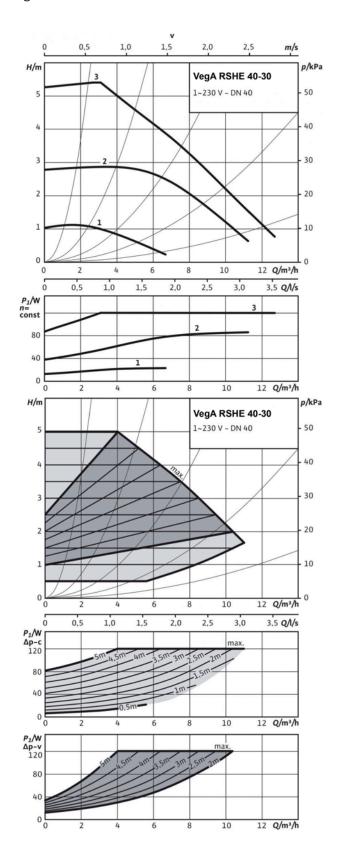
VegA RSHE 32-70 PN6/10

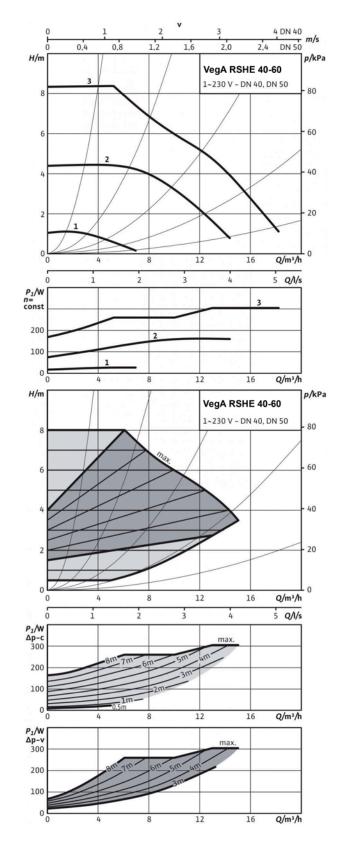


TERMINAL UNITS

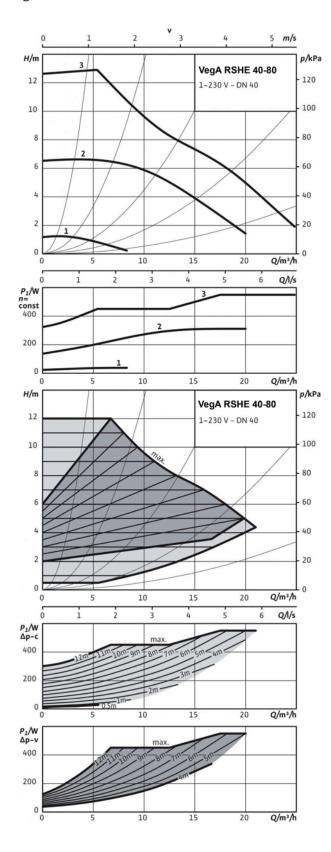
VegA RSHE 40-30 PN6/10

VegA RSHE 40-60 PN6/10

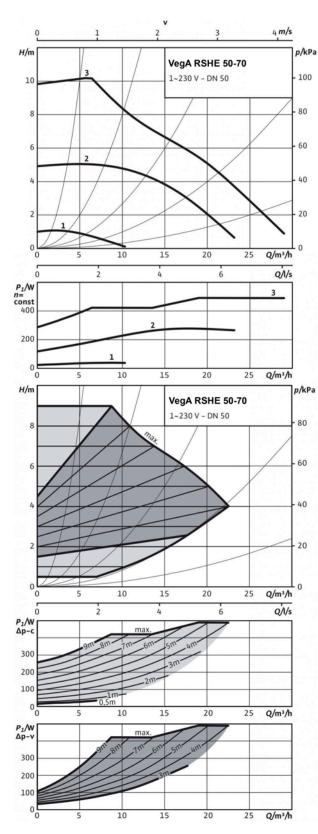




VegA RSHE 40-80 PN6/10



VegA RSHE 50-70 PN6/10



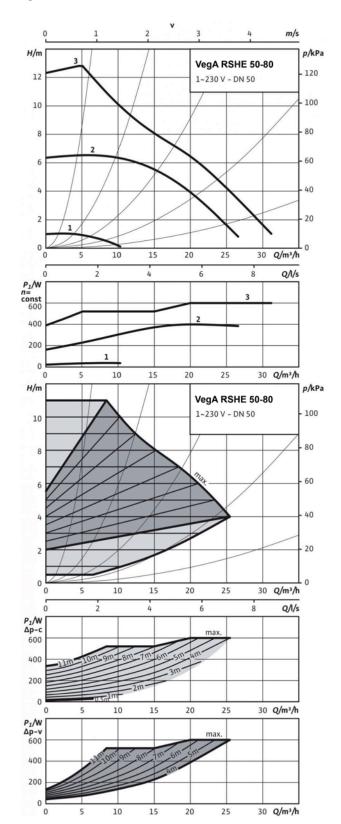
TERMINAL UNITS

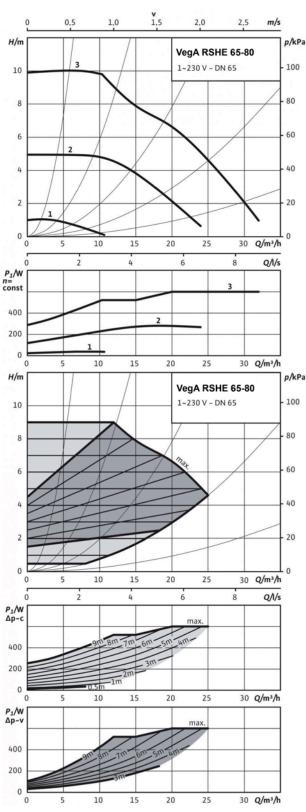
456

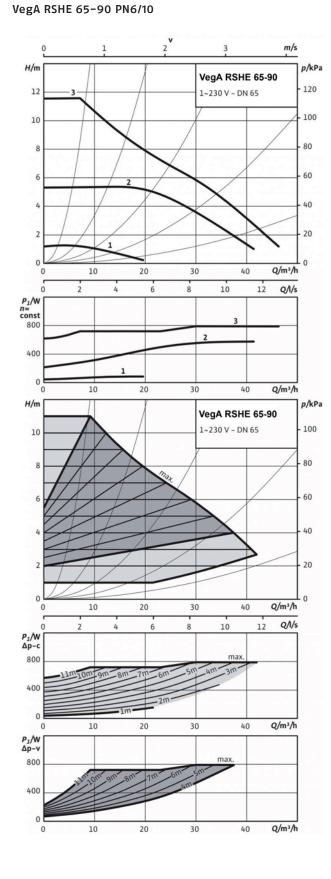
VegA RSHE 50-80 PN6/10

RIELLO

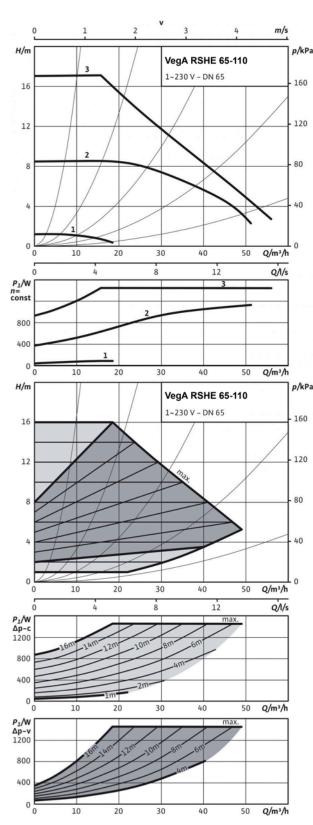
VegA RSHE 65-80 PN6/10







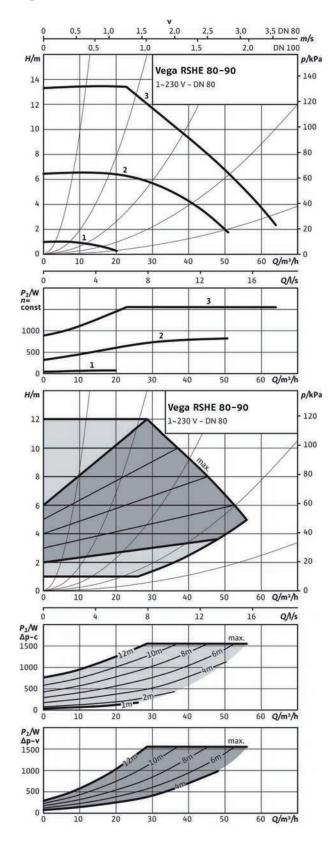
VegA RSHE 65-110 PN6/10



TERMINAL UNITS

VegA RSHE 80-90 PN10

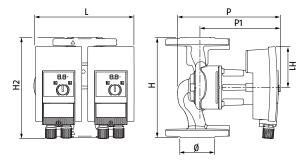
RIELLO



Water circulators

VegA RTHE







- Electronic twin pumps
- ErP ready

Description	H mm	H1 mm	H2 mm	L mm	P mm	P1 mm	ø mm	Net weight kg
VegA RTHE 32-60 PN6/10	220	110	223	231	240	180	DN32-PN6/10	10,4
VegA RTHE 32-80 PN6/10	220	110	245	251	321	364	DN32-PN6/10	17,1
VegA RTHE 40-60 PN6/10	220	110	245	269	330	266	DN40-PN6/10	17,5
VegA RTHE 40-80 PN6/10	250	125	277	302	388	326	DN40-PN6/10	24
VegA RTHE 50-70 PN6/10	280	140	292	310	392	330	DN50-PN6/10	26,4
VegA RTHE 50-80 PN6/10	280	140	292	310	392	330	DN50-PN6/10	26
VegA RTHE 50-110 PN6/10	340	170	340	398	385	315	DN50-PN6/10	47,2
VegA RTHE 65-90 PN6/10	340	170	340	406	422	334	DN65-PN6/10	50,7
VegA RTHE 80-90 PN6	360	170	360	456	439	339	DN80-PN6	56,6
VegA RTHE 80-90 PN10	360	170	360	456	439	339	DN80-PN10	56,6

Wet rotor electronic circulators, twin type, with high-performance motor that ensure high performance and energy savings related to the electronic management system that allows to vary the operating speed of the rotor, ensuring the correct input required by the system. Possibility to select the differential pressure regulation in constant or variable mode or to have the manual selection of the three speeds.

Circulators suitable for all heating, air conditioning and closed refrigeration circuits.

Features:

- Low energy consumptions
- Silent operation
- Easy wiring thanks to the front accessibility to the terminal block
- Pump body material suitable to avoid the corrosion due to the condensate
- LED indicator to set up either the hydraulic head or to display the error codes
- Power supply: 230V, 50/60 Hz

Operating limits:

- Max operating pressure: 10 bar
- Temperature range: from 20°C up to 110°C
- Protection degree: IP X4D

TECHNICAL DATA

RIELLO

Description	Volume flow rate Q_{max} m^3/h	Nominal pressure bar	Maximum hydraulic head H _{max} mca	Notes	Code
VegA RTHE 32-60 PN6/10	7.9	6/10	7.6		20182783
VegA RTHE 32-80 PN6/10	13.3	6/10	9.2	(D)	20182784
VegA RTHE 40-60 PN6/10	17.5	6/10	8.0		20182785
VegA RTHE 40-80 PN6/10	22.0	6/10	12.3		20182786
VegA RTHE 50-70 PN6/10	26.4	6/10	9.6		20182787
VegA RTHE 50-80 PN6/10	26.0	6/10	12.1		20182788
VegA RTHE 50-110 PN6/10	39.0	6/10	16.4	(D)	20182789
VegA RTHE 65-90 PN6/10	43.0	6/10	11.5		20182790
VegA RTHE 80-90 PN6	61.0	6	13.0	(D)	20182791
VegA RTHE 80-90 PN10	61.0	10	13.0	(D)	20182792

⁽D) Availability of the material at our warehouse: 20 working days after the order validation date.

ACCESSORIES

Description	Notes	Code
COUNTER FLANGE KIT		
DN32 PN 6 counter flange	(D)	20158976
DN40 PN 6 counter flange	(D)	20158977
DN50 PN 6 counter flange	(D)	20158979
DN65 PN 6 counter flange	(D)	20158980
DN80 PN 6 counter flange	(D)	20158981
DN80 PN 10/16 counter flange	(D)	20158983
INTERMEDIATE FLANGE FOR LENGTH COMPENSATION		
DN40 intermediate flange		20158985
DN50 intermediate flange		20158986
DN65 intermediate flange		20158987
CONNECT MODULE		
Connect module	(1)	20182901

⁽D) Availability of the material at our warehouse: 7 working days after the order validation date. (1) Order one for each circulator.

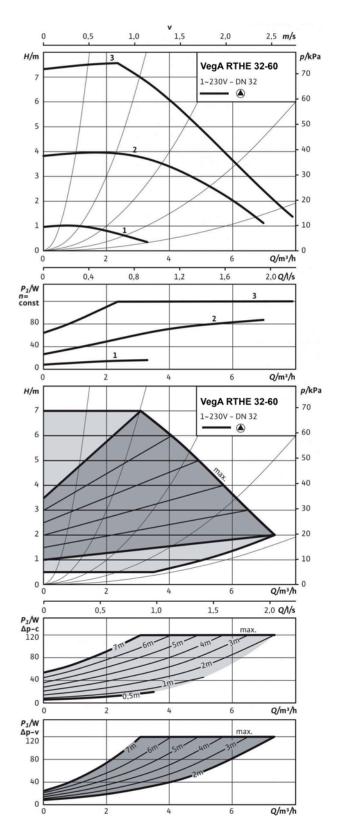
ACCESSORIES MATCHING TABLE

Description	Code	20158976	20158977	20158979	20158980	20158981	20158983
		DN32 PN 6 counter flange	DN40 PN 6 counter flange	DN50 PN 6 counter flange	DN65 PN 6 counter flange	DN80 PN 6 counter flange	DN80 PN 10/16 counter flange
VegA RTHE 32-60 PN6/10	20182783	•					
VegA RTHE 32-80 PN6/10	20182784	•					
VegA RTHE 40-60 PN6/10	20182785		•				
VegA RTHE 40-80 PN6/10	20182786		•				
VegA RTHE 50-70 PN6/10	20182787			•			
VegA RTHE 50-80 PN6/10	20182788			•			
VegA RTHE 50-110 PN6/10	20182789			•			
VegA RTHE 65-90 PN6/10	20182790				•		
VegA RTHE 80-90 PN6	20182791					•	
VegA RTHE 80-90 PN10	20182792						•

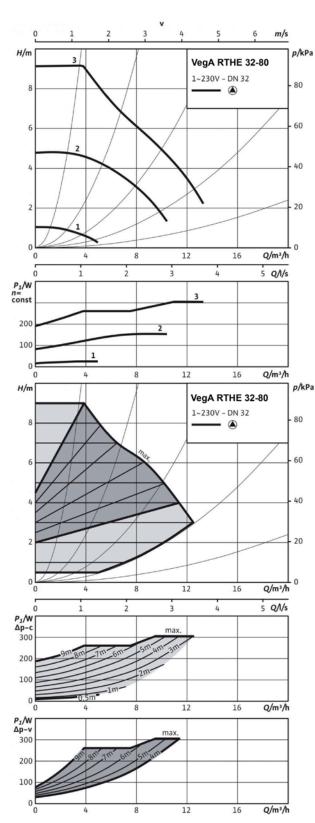
RIELLO

HYDRAULIC PERFORMANCES

VegA RTHE 32-60 PN6/10



VegA RTHE 32-80 PN6/10

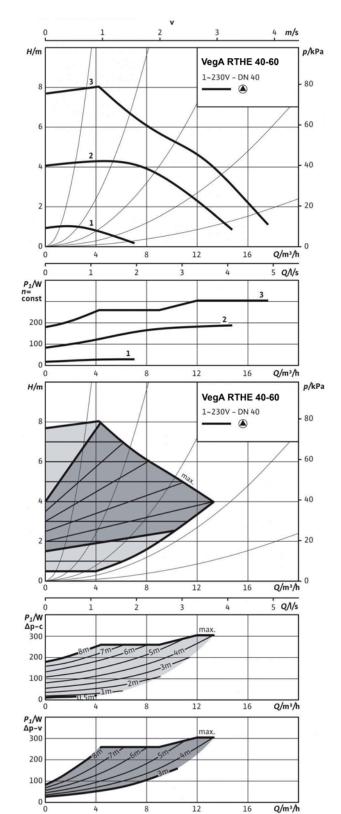


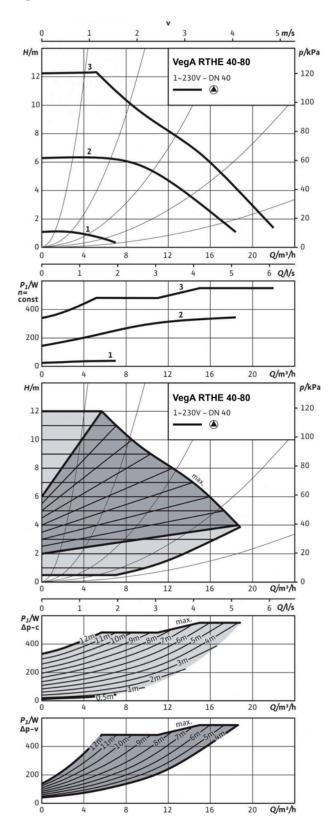
TERMINAL UNITS

VegA RTHE 40-60 PN6/10

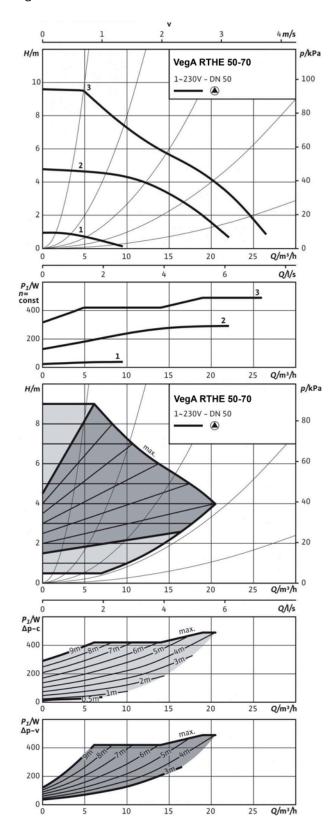
RIELLO

VegA RTHE 40-80 PN6/10

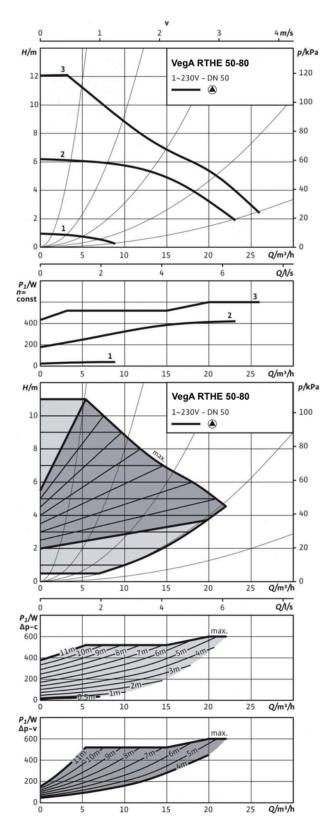




VegA RTHE 50-70 PN6/10



VegA RTHE 50-80 PN6/10



TERMINAL UNITS

400

10

20

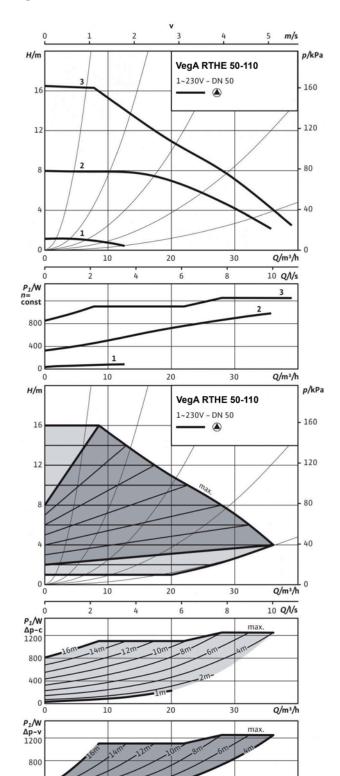
30

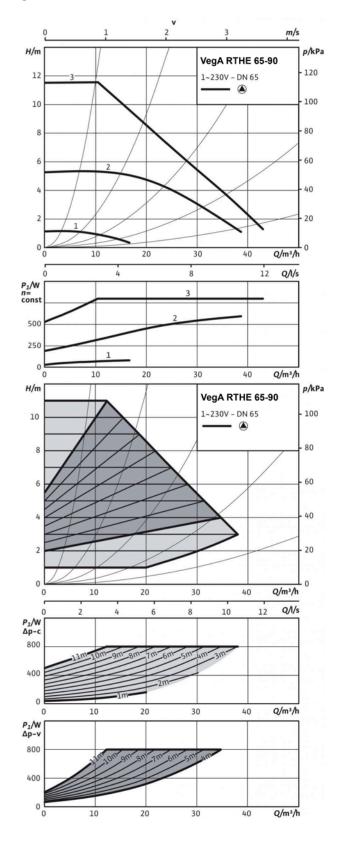
Q/m³/h

VegA RTHE 50-110 PN6/10

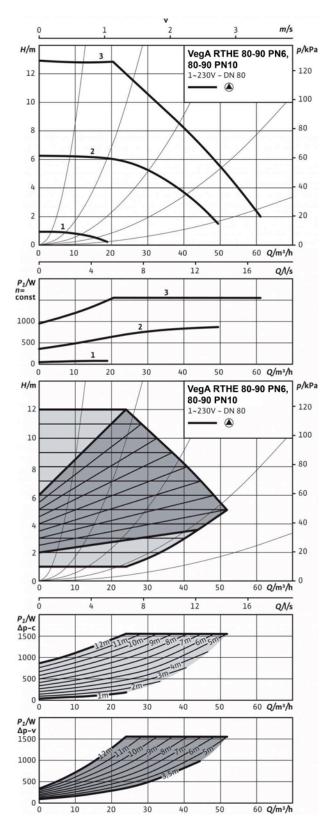
RIELLO

VegA RTHE 65-90 PN6/10



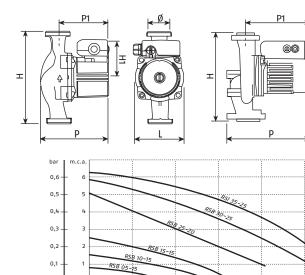


VegA RTHE 80-90 PN6 VegA RTHE 80-90 PN10



Water pumps

RSB-RSI



Description	H mm	L mm	P mm	P1 mm	Ø mm	Weight kg
RSB 05-15	130	96	129	96	1"	2
RSB 10-15	130	96	130	96	1"	2
RSB 15-15	130	96	130	96	1"	2
RSB 25-20	158	123	132	96	1''1/4	2,4
RSB 30-25	180	96	145	109	1''1/2	2,8
RSI 35-25	180	97	174	146	1''1/2	3,2

The Riello RSB-RSI single pump for domestic water recirculation have been designed and manufactured to allow the recirculation in the distribution rings of the drinking water.

Features:

Corrosion-resistant materials

• Single pump for domestic water

- Ceramic rotor shaft
- Graphite bearings
- 3-speed motor

recirculation

- Low electrical consumption
- Sealed terminal block
- Cable glands
- Easy electrical connections thanks to the full accessibility of the terminal block Single-phase electrical supply 220V at 50Hz

Limiti di impiego:

- Maximum operating pressure 10 bar
- Maximum recirculation temperature 60°C
- Water pH less than 7
- Maximum water hardness 35 °F
- Electrical protection rating IP 42

TECHNICAL DATA

Description	Maximum flow rate Q m³/h	Maximum head mca	Electric variator	Notes	Code
RSB 05-15	1,5	0,8	Speed 1	(1)	4322467
RSB 10-15	2,5	1,6	Speed 3	(1)	4322468
RSB 15-15	3,2	2,5	Speed 3	(1)	4322469
RSB 25-20	4,2	5,2	Speed 3	(2)	4322470
RSB 30-25	5,5	5,8	Speed 3	(3)	4322471
RSI 35-25	5,7	6,5	Speed 3	(3)	4322474
PIPE CONNECTIONS					
BCT 15 S					4322900
BCT 20 S					4322902
BCT 25 S					4322908

^{*} The circulators are supplied without fittings

Option combination

- (1) Optional pairing with BCT 15 S fittings.
- (2) Optional pairing with BCT 20 S fittings.
 (3) Optional pairing with BCT 25 S fittings.

AUGUST 2024 EDITION



HOT AIR GENERATORS



GAS HOT AIR GENERATORS

471

GAS HOT AIR GENERATORS



INTERNAL

GAS HOT AIR GENERATORS



GP CONDENS

GP CONDENS 30 (28 kW-3200 m³/h)*
GP CONDENS 40 (37 kW-4400 m³/h)*
GP CONDENS 50 (48 kW-5500 m³/h)*
GP CONDENS 60 (57 kW-6500 m³/h)*
GP CONDENS 90 (89 kW-10000 m³/h)*
GP CONDENS 120 (115 kW-13000 m³/h)*

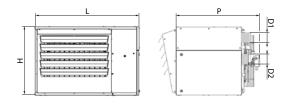
page 472

(*) Max useful power at 80-60 °C

High efficiency indoor gas hot air generators

GP Condens







- Wall-mounted gas hot air generators, premixed, high efficiency
- Up to 106% efficiency
- Axial fans

Description	H mm	L mm	P mm	D1 (*) mm	D2 (*) mm	Net weight kg
GP CONDENS 30	885	560	580	80	80	65
GP CONDENS 40	885	560	580	80	80	75
GP CONDENS 50	1225	610	650	80	80	90
GP CONDENS 60	1225	610	650	80	80	95
GP CONDENS 90	1775	710	800	100	100	205
GP CONDENS 120	1775	710	800	100	100	215

(*) Female.

GP Condens is the new wall-mounted gas hot air generator for the direct, diffusion, condensing pre-mixed, designed specifically to attain a high performance. The heat exchanger, made entirely out of stainless steel, provide the best possible performances and make inspection easy for normal cleaning and maintenance operations.

On the inside there is a multi-function electronic board that handles the burner's ignition operations, the flame monitoring and the overall

The new remote control panel allows you to display and set the main operating parameters of the machine, carry out the hourly programming and manage installations in cascade up to 10 generators.

- Range composed of 6 models with an output of 10 to 116 kW.
- Condensate drain kit as standard.
- Possibility of fastening to the wall or the roof (new).
- Possibility of managing up to 10 GP Condens in cascade.
- Indoor and outdoor temperature probe (available as accessories) for a more efficient ambient temperature measurement.
- Wide range of accessories for flue gases discharge and suction.
- Ideal for the heating of industrial, commercial, sports areas etc.

TECHNICAL DATA

Description		Useful output kW		e output (W	Air output m³/h		ciency (*) %	Notes	Code
	min	max	min	max	nominal	min	max		
GP CONDENS 30	10	28	9,4	29,1	3,200	106,5%	96,1%	(1)	20139254
GP CONDENS 40	14	37	13,3	38,5	4,400	105,1%	96,1%	(1)	20139258
GP CONDENS 50	19	48	18,4	49,8	5,500	103,2%	96,4%	(1)	20139259
GP CONDENS 60	21	57	20	59	6,500	105,1%	96,6%	(1)	20139260
GP CONDENS 90	35	89	33,3	90,8	10,000	105,2%	98,0%	(1)	20139261
GP CONDENS 120	43	115	40,6	116	13,000	106,0%	99,1%	(1)	20139262

- With reference to Net Calorific Value (Hi) with recovery of the latent vaporisation heat.
- GP Condens is combined with the remote control panel code 20139270. For cascade operation one panel is sufficient for up to a maximum of 10 heater units in

The gas heaters are set up to operate with methane gas and can be converted to LPg with the relative kit supplied.

The accessories for the flue gas exhaust and the air intake are not included in the supply and need to be ordered separately choosing from those on page 473.

ACCESSORIES

Description	Destination	Code
ASSEMBLY ACCESSORIES		
GP Condens 30-40 shelf	GP Condens 30-40	20032159
GP Condens 50-120 shelf	GP Condens 50-120	20139265
Remote room sensor	GP Condens	20032160
Outdoor air temperature sensor	GP Condens	20139267
Remote control panel	GP Condens	20139270
Suspended GP Condens	GP Condens	20139273

FLUE GAS EXHAUST/SUCTION LINE ACCESSORIES

Drawing	Description	Code
CONCENTRIC SYSTEM		
80 80 80 80 80 80 80 80 80 80 80 80 80 8	100/100 concentric on wall	20032161
- 125 - 8 6 8 6	Fitting Ø80/100	20139281
	100/100 concentric on roof	20139288
DOUBLE SYSTEM		
500	Discharge/suction pipe Ø80 x 500 mm	20139278
142 - G A G P	Terminal Ø80	20139279
142	Terminal Ø100	20139280
175 8	Bend Ø80	20139283
1000	Discharge/suction pipe Ø80 x 1000 mm	20139285
9	Bend Ø80	20139287
94 5 5	Roof terminal Ø80	20139289
1000	Discharge/suction pipe Ø100 x 1000 mm	4155552
500 501 6	Discharge/suction pipe Ø100 x 500 mm	4155554
89	Bend Ø100	4155556

RIELLO

Drawing	Description	Code
9	Bend Ø100	4155558
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Roof terminal Ø100	4155564

INSTALLATION DIAGRAMS FLUE GAS EXHAUST/SUCTION

Description										
	20139278	20139279	4155554	20139280	20139281	20032161	20139278	20139279	4155554	20139280
		Flue gas	discharge		Flue gas e suction o	exhaust/air concentric	f	Do ue gas exha	uble lust/air sucti	ion
GP CONDENS 30	•	•			•	•	•	•		
GP CONDENS 40	•	•			•	•	•	•		
GP CONDENS 50	•	•			•	•	•	•		
GP CONDENS 60	•	•			•	•	•	•		
GP CONDENS 90			•	•		•			•	•
GP CONDENS 120			•	•		•			•	•

FRONT WALL PIPES																								
Description					91	③).1)(1						100 TO TAX SEA			113			
	20139283	20139278	20139285	20139279	4155556	4155554	4155552	20139280	20139283	20139278	20139285	20139281	20032161	4155556	4155554	4155552	20139283	20139278	20139285	20139279	4155556	4155554	4155552	20139280
			Flue	gas	disch	arge				Flue	gas	exha conc			ction		Do	uble	flue	gas e	xhau	ıst/aiı	rsuc	tion
GP CONDENS 30	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 40	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 50	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 60	•	•	•	•					•	•	•	•	•				•	•	•	•				
GP CONDENS 90					•	•	•	•	•	•			•	•	•	•					•	•	•	•
GP CONDENS 120					•	•	•	•	•	•			•	•	•	•					•	•	•	•

PIPES ON ROOF																			
Description																			
	20139283	20139287	20139278	20139285	20139281	20139288	4155556	4155558	4155554	4155552	20139288	20139283	20139278	20139285	20139289	4155556	4155554	4155552	4155564
			Flue	gas e	xhaus	t/air sı	uction	conce	ntric					Flu	ie gas	discha	arge		
GP CONDENS 30	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 40	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 50	•									•	•	•	•						
GP CONDENS 60	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 90							•	•	•	•	•					•	•	•	•
GP CONDENS 120							•	•	•	•	•					•	•	•	•

NOTE		

NOTE	

Certificate

Standard ISO 9001:2015

Certificate Registr. No. 01 100 1917589

Certificate Holder: RIELLO S.p.A

Via Ing. Pilade Riello 7 37045 Legnago VR

Italy

Scope: Design, manufacture and service of: burners for residential heating

and for commercial and industrial application; wall hung boilers and water heaters; units, floor-standing boilers and heat-ing

systems; solar collectors and solar boilers.

Sales and assistance of its own brand traded products for heating; products for conditioning and cooling, system accessories; spare

Proof has been furnished by means of an audit that the

requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2022-12-11 until 2025-12-10.

Certified by other OdC from 12.11.1992 to 12.11.2019

2022-12-16

TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köln









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www.riello.com

