03 | **2021**

PRODUCT CATALOGUE

March **2021**
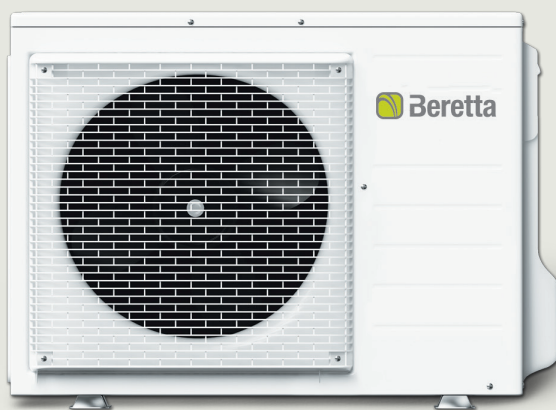
A Carrier Company

Beretta

NEW
EXCLUSIVE FE

COMPACTNESS AND FLEXIBILITY

EXCLUSIVE FE is a split type heat pump system with wall-hung indoor unit for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor wall-hung unit.

Beretta

The expert of residential heating for
over forty years.
Excellence and innovation for the air
conditioning of millions of Italian homes.

BERETTA

The residential heating specialist for over forty years. Always excellence and innovation for the climate of millions of Italian homes. Beretta today confirms its growth trend in the world of residential heating and, at the same time, faces new challenges with the same enthusiasm as at the beginning, the same dedication and unchanged vitality. Because excellence in the products and services offered remains the vocation and goal of all Beretta's actions.

EFFICIENCY

Targeted at residential heating, Beretta's offer is increasingly focused on systemic solutions for maximum energy efficiency through the intelligent integration of several energy sources.

BERETTA TODAY

TECHNOLOGY

Beretta has always demonstrated an exceptional ability to foresee changes and respond to the resulting evolution of needs. Two significant examples from the past: the Company was the first in Italy to produce a wall-hung gas boiler and - with model Idra Meteo - the first to produce a wall-hung outdoor boiler. A Progress orientation that today is increasingly translated into an ecological key with a vision of excellence and cutting-edge technology. Beretta's solutions focus on improving energy efficiency and reducing emissions for sustainability of the environment that surrounds us all and, equally important, to guarantee all the comfort that millions of users have always been accustomed to asking for and receiving from Beretta products.

HEATING

Specialist in residential heating systems: this is the product mission. Beretta anticipates changes without compromising its vocation as reference brand in residential heating. A targeted expertise, honed and sustained on the front of a 360° investment. In this way, the Company responds to all plant engineering needs, thanks to the know-how gained in over forty years of leadership in the sector, and is constantly committed to expanding its offer of products and services. New technologies and new solutions that can integrate, with maximum efficiency, several energy sources, always giving priority to renewable energy.

EXCELLENCE

The great expertise acquired over the years in the residential heating sector has made Beretta one of the leading brands on the Italian market. Today, as in the past, the pursuit of excellence in every activity and, more specifically, constant attention to the products and services offered, represent Beretta's core values.

TERRITORY

A network of specialists: proximity, expertise, flexibility throughout the national territory. Beretta is close to all its Customers with a capillary organisation capable of covering the entire country. A Customer orientation that translates concretely into proximity, expertise and flexibility. An important presence, not only in Italy but also worldwide. Today Beretta, more than 40 years after the construction of its first wall-hung gas boiler, is a world-renowned brand in the field of residential comfort, synonymous with technology and quality, everywhere. Beretta products are sold in more than 30 countries on all continents through Subsidiaries, Business Partners and Third Party Customers.

BERETTA WORLDWIDE

BERETTA PRODUCTS ARE SOLD THROUGH SUBSIDIARIES, SALES PARTNERS AND OEM CUSTOMERS IN **OVER 50 COUNTRIES** ON ALL CONTINENTS.

ENVIRONMENT

Beretta's commitment is concrete and is focused on an increasingly environmentally sustainable future. For some time now, Beretta has been totally dedicated to supporting a system logic that envisages the integration of several sustainable and renewable energy sources, in perfect harmony with the environment that surrounds us, for the domestic comfort of millions of users who use the brand's products every day and for the well-being of the planet.

Italy	R&D Laboratory **Lecco**
	Training Centre ATENEO **Lecco/Milan area**
	Headquarters **Lecco**
Production sites	ITALY **Morbegno (Sondrio)**
	Volpago (Treviso)
	Villanova di Cepagatti (Pescara)
	POLAND **Torun**
	CHINA **Shanghai**
Subsidiaries	CHINA **Beijing**
	POLAND **Torun**
	ROMANIA **Bucarest**
	SPAIN **Barcelona**

CENTRE OF **HIGHER EDUCATION**

ATENEO

A **RESIDENTIAL PRODUCTS** COURSE ROOM WITH PRACTICAL TEST BENCHES AND WORKING PRODUCT STATIONS.

A **PRODUCTS FOR SYSTEMS** AND **THERMAL POWER STATIONS** Course Room
WITH TEST BENCHES EQUIPPED WITH ALL THE PRODUCTS IN THE CATALOGUE.

MULTIMEDIA INSTRUMENTS
THAT GIVE THE INSTANT VIEW OF SIMULATIONS OF REAL APPLICATIONS.

In recent years, the air conditioning sector has faced major technological and regulatory changes, leading to the introduction of new operational and administrative procedures.

At the same time, an increasingly specialised market has accentuated the emergence of new qualifications and new plant solutions that have made it necessary to develop a constant training process.

These changes have involved all players in the sector, and to avoid them would mean missing the challenges of the future. For this reason, Beretta has further invested in training with the Centro Ateneo Beretta at its Lecco headquarters.

A modern, comfortable, well-equipped and technologically advanced environment, which allows the implementation of our training offer by giving the participant the opportunity to operate directly on working products.

Beretta

Strumenti multimediali
a disposizione dei
partecipanti ai corsi

ATENEO

Large structure for Technical
Training and Commercial Events,
with a space dedicated to the reception
of participants
and course rooms with working products.

RESIDENTIAL COURSE ROOM

Room dedicated to specific activities with
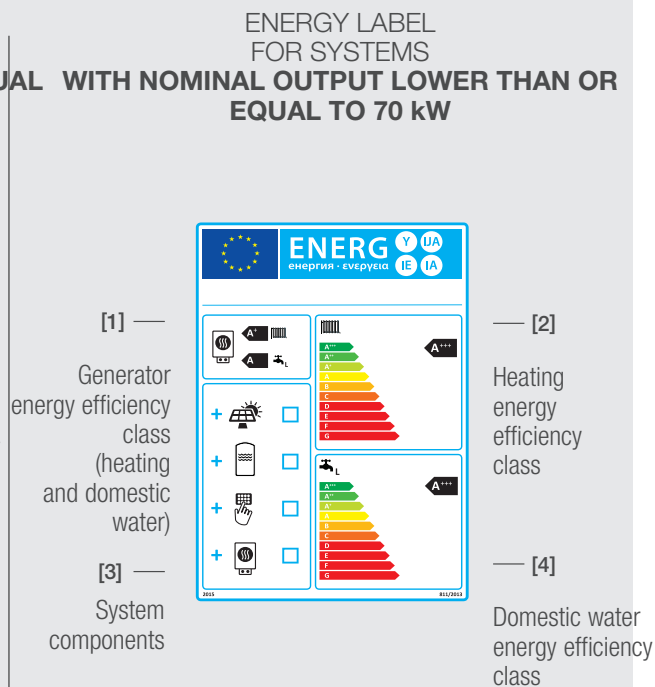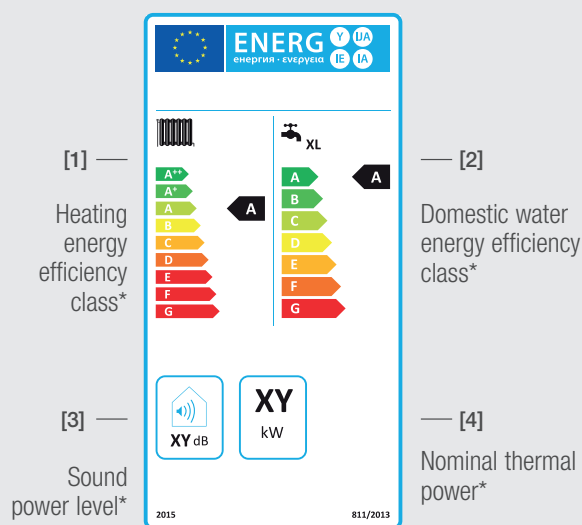products of less than 35 kW power.

SYSTEMS
COURSE ROOM

Room set up with High Power products in
cascade and simulation of hot and cold
system operation.

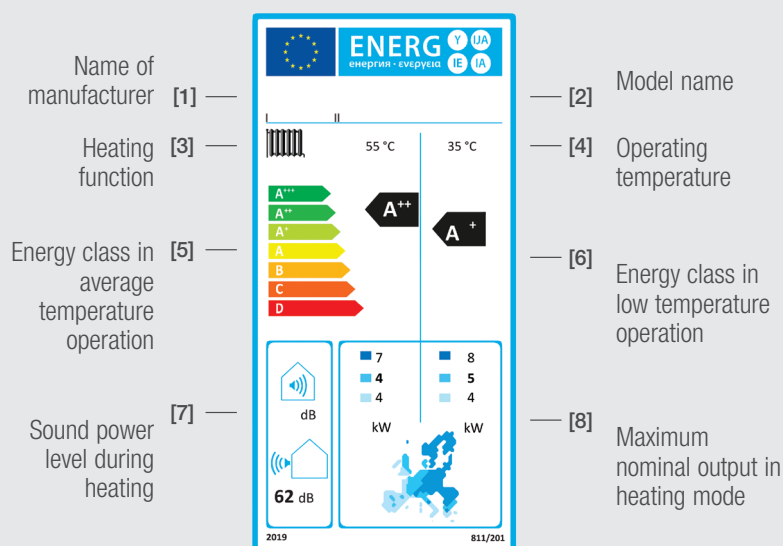>> **OVER 400 SQ.M** IN TOTAL
DEDICATED TO SPECIALISED
TRAINING

ENERGY LABELLING

ENERGY LABEL
FOR CONTROL BOXES
WITH NOMINAL OUTPUT LOWER THAN OR EQUAL TO 70 kW

[1] Heating energy efficiency class*

[2] Domestic water energy efficiency class*

[3] Sound power level*

[4] Nominal thermal power*

ENERGY LABEL
FOR SYSTEMS
WITH NOMINAL OUTPUT LOWER THAN OR EQUAL TO 70 kW

[1] Generator energy efficiency class (heating and domestic water)

[3] System components

[2] Heating energy efficiency class

[4] Domestic water energy efficiency class

* Values and classes may differ depending on the model

ENERGY LABEL
FOR **HEAT PUMP**

Name of manufacturer **[1]**

Heating function **[3]**

Energy class in average temperature operation **[5]**

Sound power level during heating **[7]**

[2] Model name

[4] Operating temperature

[6] Energy class in low temperature operation

[8] Maximum nominal output in heating mode

BERETTA PRESENTS
EXCLUSIVE FE

EXCLUSIVE FE is a split type heat pump system with wall-hung indoor unit for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor wall-hung unit.

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 -20°C.

The indoor unit houses the main components of the hydronic system, high surface plate exchanger, high efficiency electronic circulating pump, collector for installation of an additional heating element available as accessory.

The indoor unit is extremely compact with all hydraulic and refrigerant connections from below.

Remove the front panel to access all internal components, the electronic service panel and the electrical terminal block.

The system control panel is simple and intuitive, with large backlit colour display. It is supplied complete with bracket to be positioned directly inside the rooms. It can be used as room control and allows integration with **CONNECT HYBRID** distribution systems.

As an alternative to the additional heating element, the **EXCLUSIVE FE** control can also manage an auxiliary heat source, such as a boiler, to be operated as integration or as backup.
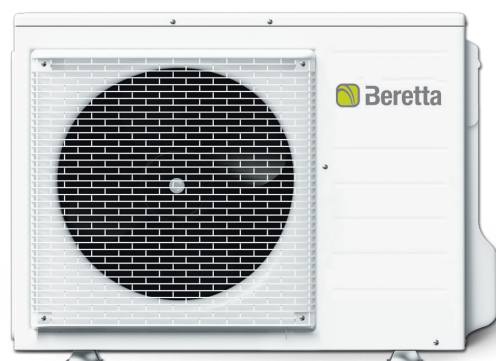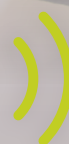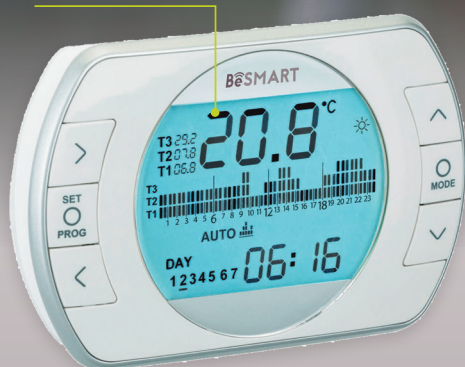
BeSMART

MUCH MORE
THAN A THERMOSTAT.

SIMPLE.
UNIVERSAL.
ALWAYS WITH YOU.

REMOTE SMART.
SMART FOR MOBILE.

New backlit
display!

Are you going to the mountains?
Or are you coming back from a business trip?

Through the **BeSmart App**, you can manage the comfort of your home wherever you are, comfortably, easily and intuitively. From any tablet or Smartphone, you can not only check the status of your heating system, but also program switching on, switching off, temperature and operating hours
of your boiler.
These and many more functions, are waiting to be discovered, with the BeSmart App.

- Boiler remote control with Modulating Chronothermostat and ON/OFF functions, connectable to the home WiFi.
- Simple to install and easy to connect to the internet
- Universal: on/off function compatible with all boilers.
- Always with you, via Smartphone and Tablet.

besmart-home.com

TOWER GREEN FE

THE CHOICE
OF **EFFICIENCY**

TOWER GREEN FE (FULL ELECTRIC),
IS THE NEW BERETTA SPLIT HEAT PUMP FOR RESIDENTIAL
AIR CONDITIONING AND DOMESTIC HOT WATER
PRODUCTION, DESIGNED FOR THERMALLY AUTONOMOUS
HOMES.

Its refrigerant circuit is divided into an elegant column-shaped indoor unit and
a compact and silent outdoor unit, optimised to operate down to a minimum
outdoor temperature of -20 °C. The result of Beretta's experience in residential
systems, TOWER GREEN FE is a ready-to-use solution that combines the
installation flexibility of the split solution with top-of-the-range energy efficiency
for room heating (A+++). Thanks to a wide range of models and the possibility
of using the solar thermal circuit as an integration, TOWER GREEN FE is the
ideal solution for heat pump air-conditioned new buildings.

TECHNOLOGY AND BENEFITS

01 Connections for design radiators
Connections specific for design radiators without mixing valves.

02 Connections for external boiler
The internal unit is fitted with specific connections for a secondary heat
generator, controlled by the unit by means of a digital signal with the purpose
of replacing the heat pump when needed.

03 Instantaneous production of domestic hot water
DHW is produced by using a high-efficiency stainless steel heat exchanger
fully immersed inside the inertial tank. This solution does not require anti-
legionella sanitization cycles.

04 Solar version of Tower Green FE S
It is fitted for connecting and controlling heat solar panels and make the most
of renewable energy.

MYNUTE X

STEEL HEART,
BERETTA TECHNOLOGY

MYNUTE X,
THE NEW RANGE OF CONDENSING BOILERS, WITH MANY INNOVATIVE AND CONVENIENT CHARACTERISTICS.

From the primary heat exchanger in stainless steel to the modern electronic interface, there are many new elements that distinguish MYNUTE X within the Beretta range.

The new condensing range, with its 5 models from 20 to 35 kW, with "combined" and "heating only" versions, responds to all residential comfort needs. High efficiency, low consumption and ease of installation make MYNUTE X the winning choice, both for new homes and for the replacement market.

With MYNUTE X, the new features of the project blend with Beretta's tradition of excellence, matured over almost half a century of experience in the home comfort sector. Its aesthetics, in line with the Beretta style of the latest generation of products, can be easily integrated into any living context, thanks also to its compactness and flexibility of installation.

NEW DIGITAL INTERFACE

FRONT ACCESS TO COMPONENTS

STAINLESS STEEL HEAT EXCHANGER

UNIVERSAL INSTALLATION

HIGH EFFICIENCY

EASY AND QUICK INSTALLATION

LOW NOX COMPLIANT WITH CLASS 6

HYBRID READY

HYDRONIC UNIT B HE

HYDRONIC UNIT B HE IS A MONOBLOC HEAT PUMP INTENDED FOR RESIDENTIAL APPLICATIONS AND ABLE TO MEET THE NEEDS FOR HEATING, COOLING AND THE PRODUCTION OF DOMESTIC HOT WATER. THE SYSTEM IS DESIGNED TO BE INSTALLED OUTDOOR AND CONNECTED TO RESIDENTIAL UTILITIES THROUGH DEDICATED HYDRAULIC LINES

The heat pump is compact and quiet. It includes a rotary DC inverter compressor, electronic expansion valve, fans with brushless EC motor and finned pack coil with hydrophilic treatment, optimized for heat pump operation with outdoor air temperature down to -20°C.
The winter operation of the unit is optimised and achieves high seasonal energy efficiency coefficients also thanks to the "Free Defrost" defrosting logic that allows, with positive external air temperatures, to eliminate the ice formed on the finned pack of the coil without inverting the cycle. This allows to minimise the electricity consumption in the heating period, significantly increasing the comfort of the indoor environment.

HYDRONIC UNIT B HE CAN BE INSTALLED AS STAND ALONE HEAT GENERATOR, AS GENERATOR INCLUDED IN THE HYBRID CONFIGURATIONS AVAILABLE IN THE BERETTA OFFER AND AS SINGLE HEAT GENERATOR IN FULL-ELECTRIC SYSTEMS.

THE ENTIRE HYDRONIC UNIT B HE RANGE COMPLIES WITH THE ENERGY EFFICIENCY REQUIREMENTS SET BY THE PIEDMONT REGION LAW.

POWER MAX

THE **NEW STAR**
IN CENTRAL HEATING SYSTEM

POWER MAX IS THE NEW BERETTA SOLUTION AS MODULAR CONDENSING WALL-HUNG SYSTEM.

Designed in our Research and Development Centres and industrialised in our factories, POWER MAX is Beretta's new wall-mounted power unit, which can be applied in both single and cascade configurations, up to 1120 kW. Complete with all the flue gas, hydraulic and safety accessories compliant requirements, POWER MAX is the ideal choice for central heating systems in condominiums, commercial sites, gyms, sports centres and industrial buildings. Thanks to its installation flexibility, reliability and ease of assembly, the new modular condensing system is Beretta's current and winning response both for the construction of new heating systems and for energy retrofit and replacement.

STAND-ALONE APPLICATIONS

FRONTAL-REAR CASCADE APPLICATIONS

LOW NOX COMPLIANT WITH CLASS 6

STAINLESS STEEL PATENTED HEAT EXCHANGER

CASCADE LINEAR APPLICATIONS

WIDE RANGE OF ACCESSORIES

DIGITAL ELECTRONIC CONTROL

CIRCULATING PUMP AS STANDARD ON MODELS UP TO 70 kW

POWER MAX BOX

BERETTA **MODULAR** SOLUTION FOR CENTRAL HEATING SYSTEM, **NOW UP TO 1300 KW**

APPLICATION FLEXIBILITY
POWER MAX BOX STANDS OUT FOR THE MODULARITY AND FLEXIBILITY OF THE SOLUTIONS IT ALLOWS TO IMPLEMENT, A PLUS THAT IS INCREASINGLY APPRECIATED ALSO IN THE CENTRAL HEATING SYSTEM.

The 10 models that make up the POWER MAX BOX range, all usable in single configuration, cover an output range from 114 to 524 kW.

3 models of this range can also be combined in back-to-back cascade, and three models in linear cascade, reaching a maximum output of 896 kW and 1300 kW.

Adding up the single configurations to those in cascade, the POWER MAX BOX range allows to create 19 configurations, which, with the use of specific accessory kits, can total dozens of different types of applications (water-tight chamber, for outdoor use, with plate heat exchanger or separator, etc.), responding to the most varied system requirements.

DIGITAL ELECTRONIC CONTROL

STAINLESS STEEL PATENTED HEAT EXCHANGER

LOW NOX COMPLIANT WITH CLASS 6

WIDE RANGE OF ACCESSORIES FOR MAXIMUM FLEXIBILITY

SINGLE CONFIGURATIONS UP TO 524 kW

CASCADE CONFIGURATIONS UP TO 896 kW

CASCADE CONFIGURATOR UP TO 1300 kW

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A+ SYSTEM

The HYBRID Systems consisting of combined boiler, solar collectors and Beretta heat pump form a class A+ system
Modular thermally autonomous hybrid system
Suitable for heating, cooling and domestic water
Management of COMBINED condensing boiler, Hydronic Unit B HE heat pump and solar thermal unit
REC 10 H Hybrid System Management Control, to be installed in the home on the wall or on the boiler
Three possible configurations (A, B, C) each with 3 kits to manage a different number of zones (1 DIR; 2 DIR; 1HT+1LT):
KIT A (HYBRID DS) - for combined boiler and PDC with solar thermal unit connectable to a double-coil heater
KIT B (HYBRID MS) - for combined boiler and PDC that can be combined with a single-coil heater
KIT C (HYBRID WITHOUT HEATER) - for combined boiler and heat pump without heater
New under-boiler distribution module (kit) for applications without hydraulic separator

Hybrid systems for combined boilers

CODE	DESCRIPTION	MANAGEMENT COMFORT[1]	MANAGEMENT DHW	MANAGEMENT ZONES
UNDER-BOILER KIT - DISTRIBUTION MODULE WITHOUT SEPARATOR FOR CONNECTION OF MS HEATER AND DHW MANAGEMENT WITH COMBINED BOILER - PDC				
20185507	HYBRID UNDER-BOILER SYSTEM 1.DIR (A)	hot / cold	⚡ ◐ -	1 DIRECT
KIT A (HYBRID DS) - FOR DS HEATER CONNECTION AND DHW MANAGEMENT WITH COMBINED BOILER - PDC - SOLAR				
20134957	HYBRID DS 1 DIR - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡ ◐ ☀	1 DIRECT
20134958	HYBRID DS 2 DIR - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡ ◐ ☀	2 DIRECT
20134959	HYBRID DS 1HT/1LT - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡ ◐ ☀	1HT + 1LT
KIT B (HYBRID MS) - FOR MS HEATER CONNECTION AND DHW MANAGEMENT WITH COMBINED BOILER AND PDC				
20134960	HYBRID MS 1 DIR - DHW (COMBI-PDC)	hot / cold	⚡ ◐ -	1 DIRECT
20134961	HYBRID MS 2 DIR - DHW (COMBI-PDC)	hot / cold	⚡ ◐ -	2 DIRECT
20134962	HYBRID MS 1HT/1LT - DHW (COMBI-PDC)	hot / cold	⚡ ◐ -	1HT + 1LT
KIT C (HYBRID WITHOUT HEATER) - FOR DHW MANAGEMENT WITH COMBINED BOILER				
20134963	HYBRID 1 DIR COMBI - WITHOUT HEATER	hot / cold	- ◐ -	1 DIRECT
20134964	HYBRID 2 DIR COMBI - WITHOUT HEATER	hot / cold	- ◐ -	2 DIRECT
20134965	HYBRID 1HT/1LT COMBI - WITHOUT HEATER	hot / cold	- ◐ -	1HT + 1LT

☀ Solar thermal unit; ⚡ Hydronic Unit heat pump; ◐ Hybrid Ready combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX, also compatible for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.

The Hybrid kit codes do not include boiler, solar collector, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.
(A) Code consisting of 1pc. of REC 10H Hybrid Systems Management Control (Code 20134449), 1pc. of Hydraulic Module for hybrid distribution of 1 direct zone (Code 20165227) and 1pc. of the external probe kit with connector (Code 1220559).

HYBRID SYSTEMS - COMBINED BOILER SELECTION TABLES

Beretta

Box for Hybrid kit

CODE	MODEL	DIMENSIONS H × L × D (mm)
20130808	BOX (ALSO FOR BUILT-IN INSTALLATION) FOR CONNECT HYBRID (2)	797 × 400 × 160
20131752	COCK KIT FOR CONNECT HYBRID	-

(1) Comfort management with boiler and heat pump
(2) Paintable box

Combined condensing boilers (compatible with under-boiler kit and kits A, B and C)

CODE MTN (1)	MODEL	DIMENSIONS H X L X D (mm)	HEAT INPUT OF HEAT. / DOMESTIC WATER Min - Max (kW)	DOMESTIC WATER PRODUCTION (l/min-Δt 25°C)	CLASS	
INSTANTANEOUS COMBINED						
20125265	EXCLUSIVE 25 C (1) (2)	740 x 420 x 275	3.7 - 18 / 3.7 - 26	14.9	A	A
20125266	EXCLUSIVE 30 C (1) (2)	740 x 420 x 275	4.3 - 24 / 4.3 - 30	17.2	A	A
20142749	EXCLUSIVE 35 C (1)	740 x 420 x 350	5.1 - 32 / 5.1 - 34.6	19.8	A	A
20163564	MYNUTE X 25 C	740 x 420 x 275	3.6 - 20 / 3.6 - 25	15.1	A	A
20163565	MYNUTE X 30 C	740 x 420 x 350	4.9 - 25 / 4.9 - 30	18.1	A	A
20163566	MYNUTE X 35 C	740 x 420 x 350	4.9 - 30 / 4.9 - 34.6	20.8	A	A

(1) Boilers in which gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings
(2) BOX built-in boilers code 1103289

Specific accessories for EXCLUSIVE C - MYNUTE X

CODE	MODEL	DIMENSIONS H X L X D (mm)
1103289	GREEN built-in BOX with door	1223 x 654 x 255 (+26)*
20134475	Combined Exclusive C frost protection heating element kit (down to -15°C)	-
20156799	Combined MYNUTE X frost protection heating element kit (down to -15°C)	-
20130637	Wall-hung hydraulic connection kit for METEO GREEN H boilers	-
20134477	Connection kit for EXCLUSIVE C - MYNUTE X built-in installation	-

* Note: the front part of the BOX (door) protrudes 26 mm with respect to the built-in frame.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

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HYBRID SYSTEMS - HEAT PUMP AND SOLAR COLLECTOR SELECTION TABLE

Beretta

Hydronic Unit B HE heat pumps (compatible with under-boiler kits and kits A, B and C)

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20161618	HYDRONIC UNIT B HE 5 [3]	821 x 908 x 350	5.10 / 4.85	A⁺⁺	A⁺⁺⁺
20161619	HYDRONIC UNIT B HE 7 [3]	821 x 908 x 350	7.15 / 8.00	A⁺⁺	A⁺⁺⁺
20161620	HYDRONIC UNIT B HE 11 [4]	1363 x 908 x 350	11.25 / 13.70	A⁺⁺	A⁺⁺

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
(3) Available from February 2021.
(4) Code not compatible with under-boiler kit.
FREE start-up for Hydronic Unit B HE heat pumps

Hydronic Unit LE B heat pumps (compatible with under-boiler kits and kits A, B and C)

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20103221	HYDRONIC UNIT LE 4 B	821 x 908 x 326	4.07 / 4.93	A⁺⁺	A⁺
20103222	HYDRONIC UNIT LE 6 B	821 x 908 x 326	5.76 / 7.04	A⁺⁺	A⁺

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE B heat pumps

Solar collectors (for kit A only)

CODE	DESCRIPTION	MODEL
20184340	FLAT COLLECTOR 2.5 m² [1]	SCF-25/4B
20095379	FLAT COLLECTOR 2 m²	SCF-20B

For bracket codes and glycol refer to the solar thermal section
(1) Available from April 2021.

HYBRID SYSTEMS - HEATER AND INERTIAL BUFFER TANK SELECTION TABLES

Double-coil heaters (compatible with kit A)

CODE	MODEL	DIMENSIONS H X Ø (mm)	HEATER CAPACITY (litres)	DISPERSION (W)	CLASS
DOUBLE-COIL HEATERS					
20117881	IDRA DS 200 [1]	1.338x604	208 double coil	62	B
20117882	IDRA DS 300 [1]	1.838x604	301 double coil	69	B

Single-coil heaters (compatible with under-boiler kit and kit B)

CODE	MODEL	DIMENSIONS H X Ø (mm)	HEATER CAPACITY (litres)	DISPERSION (W)	CLASS
SINGLE-COIL HEATERS FOR HEAT PUMP					
20117745	IDRA HP 300 [2]	1.615x600	263 single-coil	85	C

[1] Heaters for Hybrid DS Systems. When connected in Hybrid MS Systems, the two coils must be connected in series.
[2] Heaters for Hybrid MS Systems

Inertial buffer tanks (compatible with under-boiler kit and kits A, B and C)

CODE	DESCRIPTION
20104496	25-litre cylindrical technical tank kit [3]
20171999	STOR H 50 - 50-litre inertial buffer tank [3]
20142300	STOR H 100 - 100-litre technical hot/cold tank kit [3] [5]

[3] Provide at least 3.5 litres per kW of heat pump cooling output
[5] Code with limited availability

Accessories for Hybrid Systems (compatible with Kit C)

CODE	DESCRIPTION
20165741	Photovoltaic input board kit [4]

[4]   To be used only if there is no diverting valve kit code 20131755 within the packages

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

KIT A COMPOSITION (HYBRID DS) - for management of DS heater and DHW with combined boiler - pdc - solar

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW			MANAGEMENT ZONES
20134957	HYBRID DS 1 DIR - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡	💧	☀	1 DIRECT
CONSISTING OF:						
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL					1 pc.
20130801	CONNECT HYBRID 1D MODULE					1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR					1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)					1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)					1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m					1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT					1 pc.
20134958	HYBRID DS 2 DIR - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡	💧	☀	2 DIRECT
CONSISTING OF:						
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL					1 pc.
20130802	CONNECT HYBRID 2D MODULE					1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR					1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)					1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)					1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m					1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT					1 pc.
20134959	HYBRID DS 1HT/1LT - DHW (COMBI-PDC-SOLAR)	hot / cold	⚡	💧	☀	1HT + 1LT
CONSISTING OF:						
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL					1 pc.
20130803	CONNECT HYBRID HT/LT MODULE					1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR					1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)					1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)					1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m					1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT					1 pc.

☀ Solar thermal unit; ⚡ Hydronic Unit heat pump; 💧 combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.
The Hybrid system codes do not include boiler, solar collector, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.

Hybrid Combined Systems
HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid DS systems: with kit A, combined boiler, heat pump, solar - two zones (1HT + 1LT)

The system is controlled by the Rec 10 H hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.

Basic layout purely for illustrative purposes

Key:
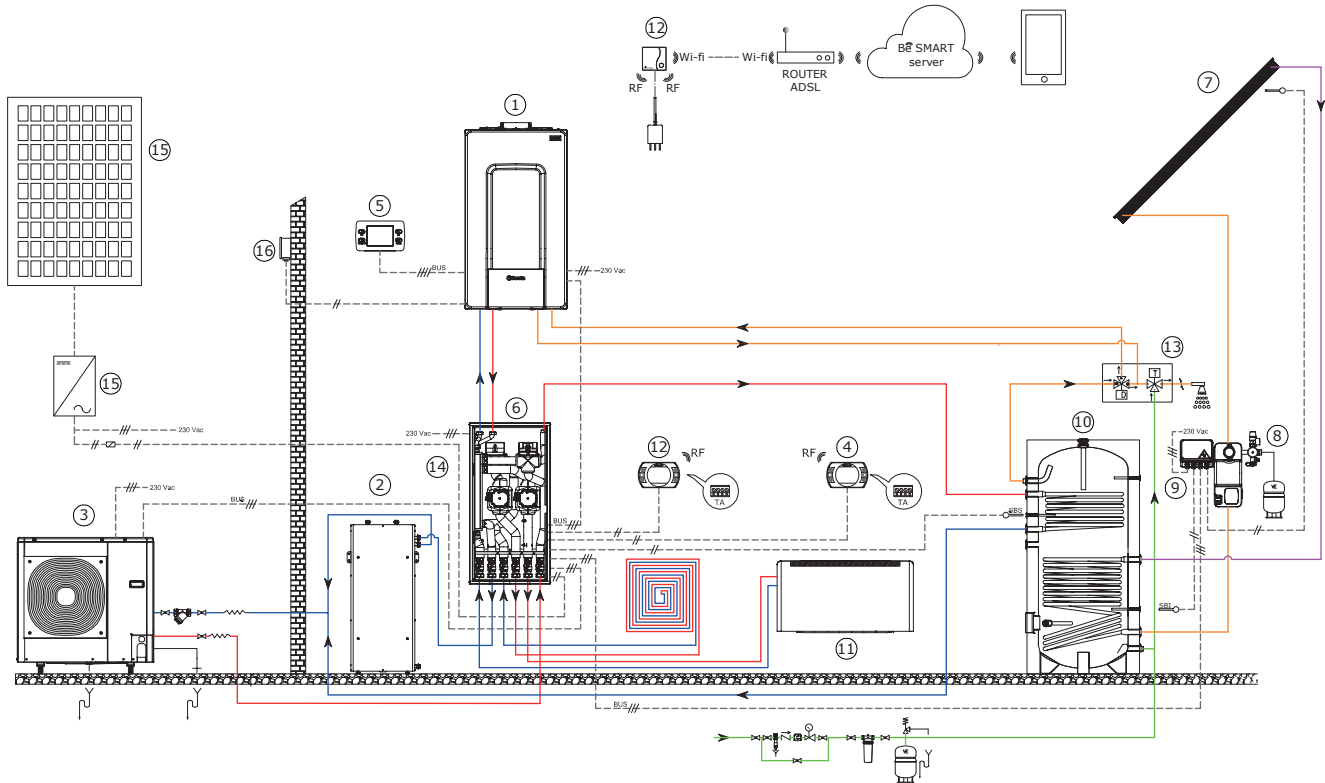
1 EXCLUSIVE C / MYNUTE X
2 STOR H 50 - 50-litre inertial buffer tank
3 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B
4 BeSMART Comfort Control
5 REC 10 H hybrid systems management control (code sold in kit A - Hybrid DS) [1]
6 Kit A - (Hybrid DS), built into the BOX and with cock kit (optional)
7 Solar collector
8 Return-only solar hydraulic unit (code sold in kit A - Hybrid DS)
9 Solar management board (code sold in kit A - Hybrid DS)
10 Double-coil domestic water heater
11 Tivano Fan coil
12 BeSMART Wi-Fi
13 Diverting/mixing valve (code sold in kit A - Hybrid DS)
14 Photovoltaic input board (code sold in kit A - Hybrid DS)
15 Photovoltaic string with inverter
16 External probe

Possible solutions*:

1 HT zone or 1 direct LT zone
2 HT zones or 2 direct LT zones
1 HT zone + 1 LT zone (as per diagram)
Cooling using TIVANO FAN COIL

(*) The mixed zone is managed with motorised mixing valves and self-modulating circulating pumps

[1] The REC 10H - Hybrid control, in the presence of Exclusive C boilers, can be installed on the boiler instead of the standard control panel.
If it is installed on the wall, it is necessary to disconnect the control on the boiler, while remaining on the machine.
For all configurations, refer to the applicable design and installation regulations and the technical manuals of the product.

HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

꿍 Beretta

KIT B COMPOSITION (HYBRID MS) - for management of MS heater and DHW with combined boiler and pdc

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134960	HYBRID MS 1 DIR - DHW (COMBI-PDC)	hot / cold	⚡ ⬤	-	1 DIRECT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130801	CONNECT HYBRID 1D MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)				1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134961	HYBRID MS 2 DIR - DHW (COMBI-PDC)	hot / cold	⚡ ⬤	-	2 DIRECT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130802	CONNECT HYBRID 2D MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)				1 pc.

| CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134962	HYBRID MS 1HT/1LT - DHW (COMBI-PDC)	hot / cold	⚡ ⬤	-	1HT + 1LT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130803	CONNECT HYBRID HT/LT MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
20035644	SOLAR MIXING DIVERTING VALVE KIT (FOR COMBINED BOILERS)				1 pc.

⚡ Hydronic Unit heat pump; ⬤ combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.
The Hybrid system codes do not include boiler, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.

Hybrid Combined Systems
HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid MS systems: with kit B, combined boiler, heat pump - two zones (1HT + 1LT)

The system is controlled by the Rec 10 H hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.

Basic layout purely for illustrative purposes

Key:
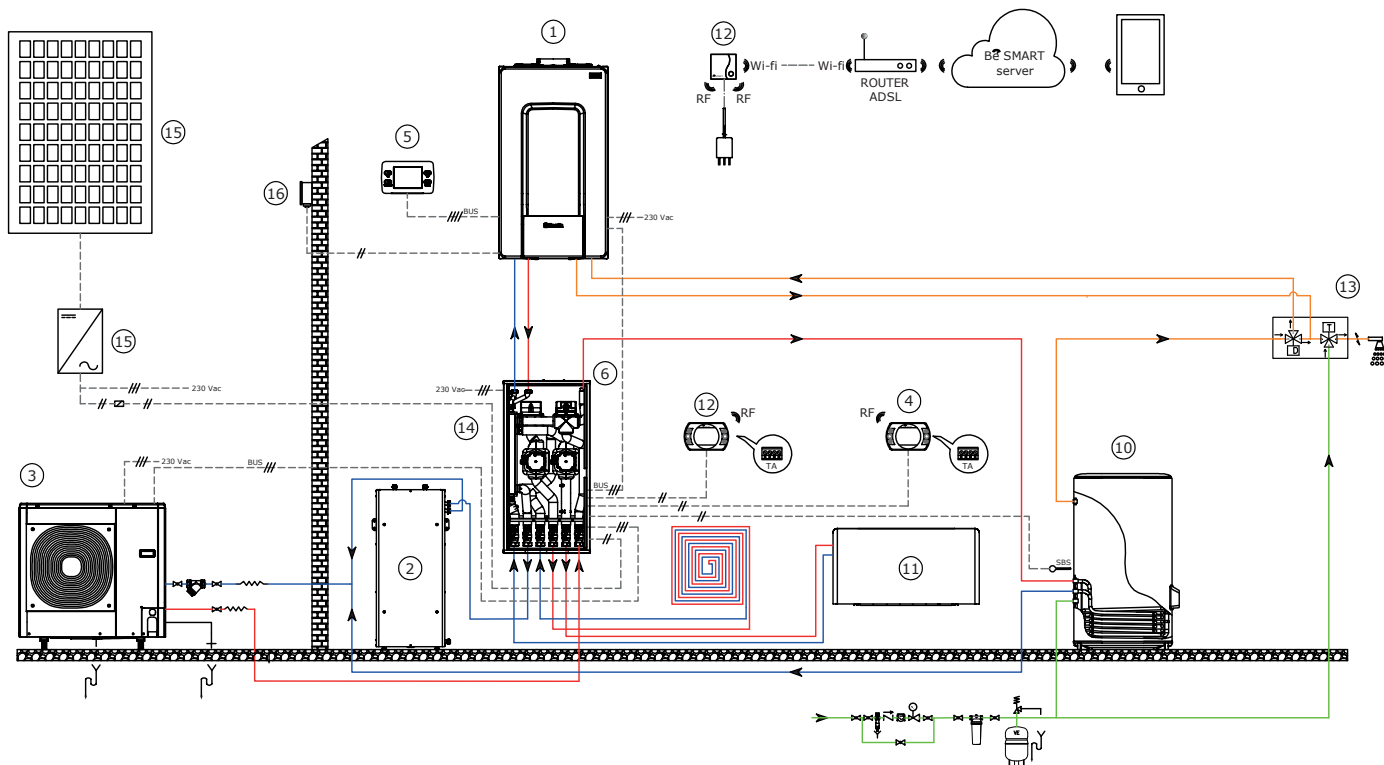
1 EXCLUSIVE C / MYNUTE X
2 STOR H 50 - 50-litre inertial buffer tank
3 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B
4 BeSMART Comfort Control
5 REC 10 H hybrid systems management control (code sold in kit B - Hybrid MS) [1]
6 Kit B - (Hybrid MS), built into the BOX and with cock kit (optional)
10 Single-coil domestic water heater
11 Tivano Fan coil
12 BeSMART Wi-Fi
13 Diverting/mixing valve (code sold in kit B - Hybrid MS)
14 Photovoltaic input board (code sold in kit B - Hybrid MS)
15 Photovoltaic string with inverter
16 External probe

Possible solutions*:

1 HT zone or 1 direct LT zone
2 HT zones or 2 direct LT zones
1 HT zone + 1 LT zone (as per diagram)
Cooling using TIVANO FAN COIL

(*) The mixed zone is managed with motorised mixing valves and self-modulating circulating pumps

[1] The REC 10H - Hybrid control, in the presence of Exclusive C boilers, can be installed on the boiler instead of the standard control panel.
If it is installed on the wall, it is necessary to disconnect the control on the boiler, while remaining on the machine.
For all configurations, refer to the applicable design and installation regulations and the technical manuals of the product.

HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

KIT C COMPOSITION (HYBRID WITHOUT HEATER) - for DHW management with combined boiler

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134963	HYBRID 1 DIR COMBI - WITHOUT HEATER	hot / cold	- 💧 -	1 DIRECT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130801	CONNECT HYBRID 1D MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134964	HYBRID 2 DIR COMBI - WITHOUT HEATER	hot / cold	- 💧 -	2 DIRECT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130802	CONNECT HYBRID 2D MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134965	HYBRID 1HT/1LT COMBI - WITHOUT HEATER	hot / cold	- 💧 -	1HT + 1LT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130803	CONNECT HYBRID HT/LT MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.

💧 Combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.
The Hybrid system codes do not include boiler, heat pump and inertial buffer tank: to be chosen from the codes specified in the combination tables.
For input of signal from the photovoltaic system, it is necessary to use the optional kit code 20165741.

HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid systems WITHOUT HEATER: with kit C, combined boiler, heat pump - two zones (1HT + 1LT)

The system is controlled by the Rec 10 H hybrid control (code sold in kit B - (Hybrid MS) connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.
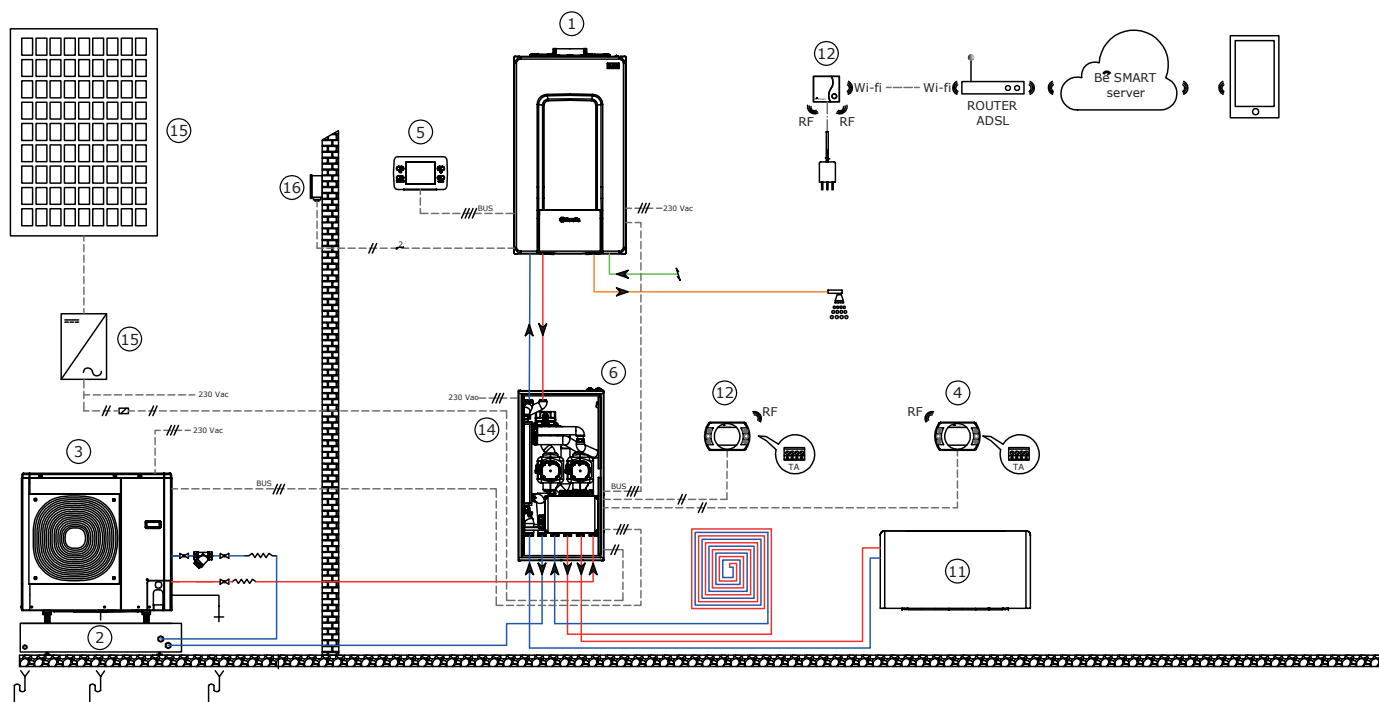
Basic layout purely for illustrative purposes

Key:

1 EXCLUSIVE C / MYNUTE X
2 STOR H 50 - 50-litre inertial buffer tank
3 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B
4 BeSMART Comfort Control
5 REC 10 H hybrid systems management control (code sold in kit C - Hybrid without heater) [1]
6 Kit C - Hybrid WITHOUT HEATER, built into the BOX and with cock kit (optional)
11 Tivano Fan coil
12 BeSMART Wi-Fi
14 Optional photovoltaic input board (code 20165741)
15 Photovoltaic string with inverter
16 External probe

Possible solutions*:

1 HT zone or 1 direct LT zone
2 HT zones or 2 direct LT zones
1 HT zone + 1 LT zone (as per diagram)
Cooling using TIVANO FAN COIL

(*) The mixed zone is managed with motorised mixing valves and self-modulating circulating pumps

[1] The REC 10H - Hybrid control, in the presence of Exclusive C boilers, can be installed on the boiler instead of the standard control panel.
If it is installed on the wall, it is necessary to disconnect the control on the boiler, while remaining on the machine.
For all configurations, refer to the applicable design and installation regulations and the technical manuals of the product.

HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

A+ SYSTEM

The HYBRID Systems consisting of heating-only boiler, solar collectors and Beretta heat pump form a class A+ system
Modular thermally autonomous hybrid system
Suitable for heating, cooling and domestic water
Management of HEATING-ONLY condensing boiler, Hydronic Unit LE B heat pump and solar thermal unit
REC 10 H Hybrid System Management Control, to be installed in the home on the wall or on the boiler
Two possible configurations (D, E) each with 3 kits to manage a different number of zones (1 DIR; 2 DIR; 1HT+1LT):
KIT D - (HYBRID DS) - for PDC and heating-only boiler with solar connectable to a double-coil heater
KIT E - (HYBRID DS) - for heating-only boiler and PDC connectable to a double-coil heater
New under-boiler distribution module (kit) for applications without hydraulic separator

Hybrid systems for heating-only boilers

CODE	DESCRIPTION	MANAGEMENT COMFORT[1]	MANAGEMENT DHW	MANAGEMENT ZONES
UNDER-BOILER KIT - DISTRIBUTION MODULE WITHOUT SEPARATOR FOR CONNECTION DS HEATER WITH HEATING-ONLY BOILER, SOLAR AND PDC				
20185398	HYBRID UNDER-BOILER SYSTEM 1.DIR + DHW (A)	hot / cold	⚡ ⚪ ☼	1 DIRECT
KIT D (HYBRID DS) - FOR MANAGEMENT OF DS HEATER WITH HEATING-ONLY BOILER AND SOLAR				
20134966	HYBRID DS 1 DIR - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⚪ ☼	1 DIRECT
20134967	HYBRID DS 2 DIR - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⚪ ☼	2 DIRECT
20134968	HYBRID DS 1HT/1LT - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⚪ ☼	1HT + 1LT
KIT E (HYBRID DS) - FOR MANAGEMENT OF DS HEATER WITH HEATING-ONLY BOILER AND PDC				
20134969	HYBRID DS 1 DIR - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⚪ -	1 DIRECT
20134970	HYBRID DS 2 DIR - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⚪ -	2 DIRECT
20134971	HYBRID DS 1HT/1LT - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⚪ -	1HT + 1LT

☼ Solar thermal unit; ⚡ Hydronic Unit heat pump; ⚪ Hybrid Ready combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX, also compatible for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752. The Hybrid kit codes do not include boiler, solar collector, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.
(A) Code consisting of 1pc. of REC 10H Hybrid Systems Management Control (Code 20134449), 1pc. of Hydraulic Module for hybrid distribution of 1 direct zone (Code 20165227), 1pc. of the external probe kit with connector (Code 1220559) and 1pc. of HBOX diverting valve accessory kit (Code 20168920).

Box for Hybrid kit

CODE	MODEL	DIMENSIONS H × L × D (mm)
20130808	BOX (ALSO FOR BUILT-IN INSTALLATION) FOR CONNECT HYBRID [2]	797 × 400 × 160
20131752	COCK KIT FOR CONNECT HYBRID	-

[1] Comfort management with boiler and heat pump
[2] Paintable box

HYBRID SYSTEMS - HEATING-ONLY BOILER SELECTION TABLE

EXCLUSIVE - MYNUTE X heating-only condensing boilers (compatible with under-boiler kit and kits D and E)

CODE MTN [1]	MODEL	DIMENSIONS H X L X D (mm)	HEAT INPUT OF HEAT. / DOMESTIC WATER Min - Max (kW)	DOMESTIC WATER PRODUCTION (l/min-Δt 25°C)	CLASS � bars•	🚰 XL
HEATING ONLY						
20127972	EXCLUSIVE 25 R [1]	740 x 420 x 275	3.7 - 18 / 3.7 - 26	-	A ▷	-
20142750	EXCLUSIVE 35 R [1] [2]	740 x 420 x 350	5.1 - 32 / 5.1 - 34.6	-	A ▷	-
20163567	MYNUTE X 20 R	740 x 420 x 275	3.6 - 20 / 3.6 - 20	-	A ▷	-
20163568	MYNUTE X 30 R [2]	740 x 420 x 350	4.9 - 30 / 4.9 - 34.6	-	A ▷	-

[1] In EXCLUSIVE R boilers gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings
[2] Models that cannot be built in the BOX code 1103289

METEO GREEN H BOX heating-only condensing boilers (compatible with under-boiler kit and kits D and E)

CODE MTN	MODEL	HEAT INPUT OF HEAT. Min - Max (kW)	HEAT INPUT OF DOMESTIC WATER Min - Max (kW)	CLASS � bars•	🚰 XL
20135127	METEO GREEN H BOX 30 R.S.I. [3]	3.2 - 25	3.2 - 30	A ▷	-

[3] METEO GREEN H BOX boilers do not have the control panel. In order to operate, they need the REC 10 H hybrid system management control, included in kits HYBRID D, E.

Specific accessories for EXCLUSIVE R - METEO GREEN H BOX

CODE	MODEL	DIMENSIONS H X L X D (mm)
1103289	GREEN built-in BOX with door [4]	1223 x 654 x 255 (+26)*
20134477	Connection kit for EXCLUSIVE C [5] built-in installation	-

* Note: the front part of the BOX (door) protrudes 26 mm with respect to the built-in frame.
[4] EXCLUSIVE 35 R models cannot be built in the BOX code 1103289
[5] The kit includes fixing template in the box, the connections for heating and domestic water connections (which cannot be used on Exclusive R boilers)

HYBRID SYSTEMS

HEAT PUMPS

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TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HYBRID SYSTEMS - HEAT PUMP AND SOLAR COLLECTOR SELECTION TABLE

Hydronic Unit B HE heat pumps (compatible with under-boiler kits and kits D and E)

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS ▥ 55°C	▥ 35°C
20161618	HYDRONIC UNIT B HE 5 [3]	821 x 908 x 350	5.10 / 4.85	A⁺⁺	A⁺⁺⁺
20161619	HYDRONIC UNIT B HE 7 [3]	821 x 908 x 350	7.15 / 8.00	A⁺⁺	A⁺⁺⁺
20161620	HYDRONIC UNIT B HE 11 [4]	1363 x 908 x 350	11.25 / 13.70	A⁺⁺	A⁺⁺

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
(3) Available from February 2021.
(4) Code not compatible with under-boiler kit
FREE start-up for Hydronic Unit B HE heat pumps

Hydronic Unit LE B heat pumps (compatible with under-boiler kit and kits D and E)

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS ▥ 55°C	▥ 35°C
20103221	HYDRONIC UNIT LE 4 B	821 x 908 x 326	4.07 / 4.93	A⁺⁺	A⁺
20103222	HYDRONIC UNIT LE 6 B	821 x 908 x 326	5.76 / 7.04	A⁺⁺	A⁺

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE B heat pumps

Solar collectors (for kit A only)

CODE	DESCRIPTION	MODEL
20184340	FLAT COLLECTOR 2.5 m² [1]	SCF-25/4B
20095379	FLAT COLLECTOR 2 m²	SCF-20B

For bracket codes and glycol refer to the solar thermal section
(1) Available from April 2021.

HYBRID SYSTEMS - HEATER AND INERTIAL BUFFER TANK SELECTION TABLES

Double-coil heaters (compatible with under-boiler kit and kits D and E)

CODE	MODEL	DIMENSIONS H X Ø (mm)	HEATER CAPACITY (litres)	DISPERSION (W)	CLASS
DOUBLE-COIL HEATERS					
20117881	IDRA DS 200	1.338x604	208 double coil	62	B
20117882	IDRA DS 300	1.838x604	301 double coil	69	B

Inertial buffer tanks (compatible with under-boiler kit and kits D and E)

CODE	DESCRIPTION
20104496	25-litre cylindrical technical tank kit [3]
20171999	STOR H 50 - 50-litre inertial buffer tank [3]
20142300	STOR H 100 - 100-litre technical hot/cold tank kit [3] [5]

[3] Provide at least 3.5 litres per kW of heat pump cooling output
[5] Code with limited availability

Accessories for Hybrid Systems (compatible with Kit D)

CODE	DESCRIPTION
20165741	Photovoltaic input board kit [4]

[4]   To be used only if there is no diverting valve kit code 20131755 within the packages

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

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TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

KIT D (HYBRID DS) COMPOSITION - for management of DS heater with heating-only boiler and solar

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134966	HYBRID DS 1 DIR - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⬣ ☀	1 DIRECT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130801	CONNECT HYBRID 1D MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m			1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT			1 pc.
1220599	POCKET PROBE KIT			1 pc.
1150529	3/4" MIXING VALVE			1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134967	HYBRID DS 2 DIR - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⬣ ☀	2 DIRECT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130802	CONNECT HYBRID 2D MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m			1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT			1 pc.
1220599	POCKET PROBE KIT			1 pc.
1150529	3/4" MIXING VALVE			1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW	MANAGEMENT ZONES
20134968	HYBRID DS 1HT/1LT - DHW (HEATING ONLY-SOLAR)	hot / cold	- ⬣ ☀	1HT + 1LT
CONSISTING OF:				
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL			1 pc.
20130803	CONNECT HYBRID HT/LT MODULE			1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR			1 pc.
20116162	CONNECT SOLAR R RETURN-ONLY HYDRAULIC UNIT - 7.5m			1 pc.
20168672	SOLAR THERMAL UNIT INTERFACE KIT			1 pc.
1220599	POCKET PROBE KIT			1 pc.
1150529	3/4" MIXING VALVE			1 pc.

☀ Solar thermal unit; ⬣ Built-in combined condensing boiler
To house the Hybrid kits it is necessary to purchase the BOX for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.
The Hybrid system codes do not include boiler, solar collector, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.

HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid DS systems: with kit D, heating-only boiler, heat pump, solar - two zones (1HT + 1LT)

The system is controlled by the Rec 10 H hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.

Basic layout purely for illustrative purposes

Key:
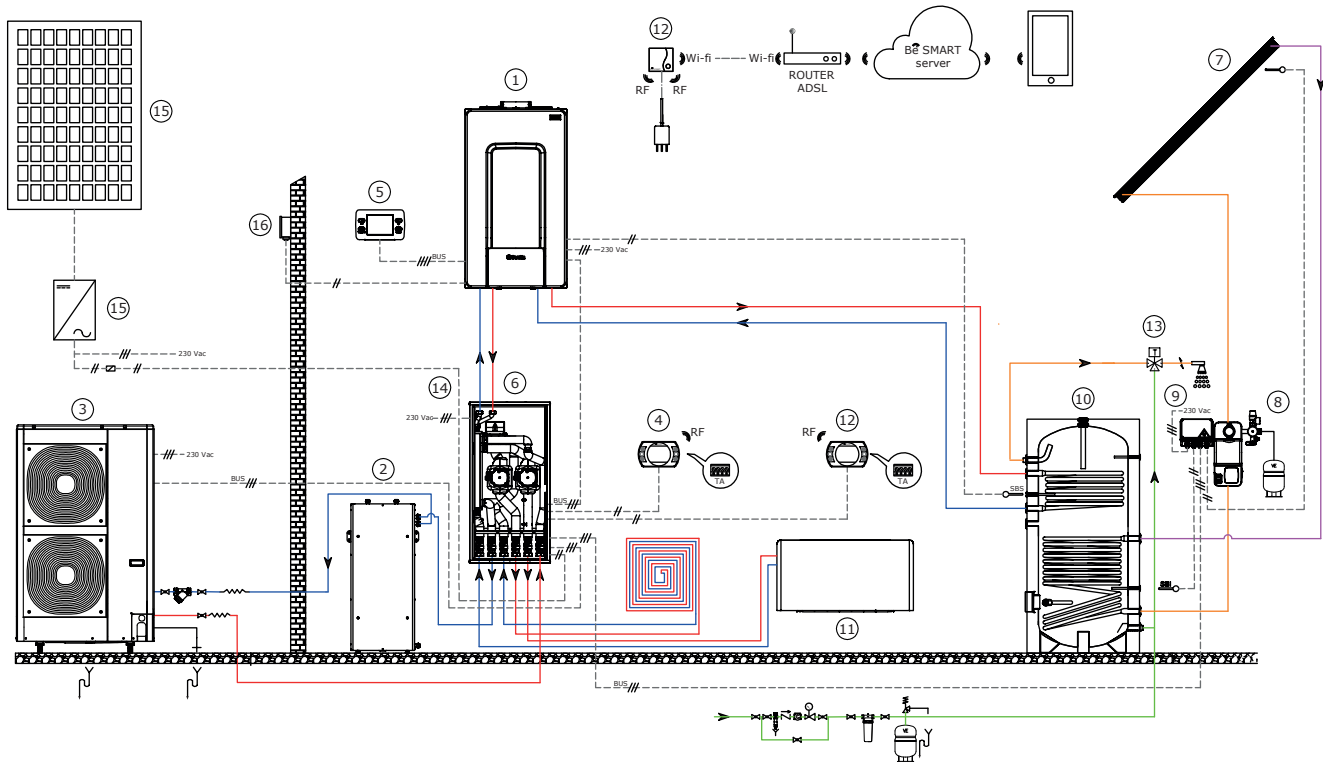
1 EXCLUSIVE / MYNUTE X
2 STOR H 50 - 50-litre inertial buffer tank
3 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B
4 BeSMART Comfort Control
5 REC 10 H hybrid systems management control (code sold in kit D - Hybrid DS - heating-only / solar) [1]
6 Kit D - Hybrid DS (heating only - solar) built into the BOX and with optional cock kit
7 Solar collector
8 Return-only solar hydraulic unit (code sold in kit D - Hybrid DS - heating-only / solar)
9 Solar management board (code sold in kit D - Hybrid DS - heating-only / solar)
10 Double-coil domestic water heater
11 Tivano Fan coil
12 BeSMART Wi-Fi
13 Thermostatic mixing valve (code sold in kit D - Hybrid DS - heating-only / solar)
14 Photovoltaic input board (code sold in kit D - Hybrid DS)
15 Photovoltaic string with inverter
16 External probe

Possible solutions*:

1 HT zone or 1 direct LT zone
2 HT zones or 2 direct LT zones
1 HT zone + 1 LT zone (as per diagram)
Cooling using TIVANO FAN COIL

(*) The mixed zone is managed with motorised mixing valves and self-modulating circulating pumps

[1] The REC 10H - Hybrid control, in the presence of Exclusive R boilers, can be installed on the boiler instead of the standard control panel.
If it is installed on the wall, it is necessary to disconnect the control on the boiler, while remaining on the machine.
For all configurations, refer to the applicable design and installation regulations and the technical manuals of the product.

HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

Beretta

KIT E (HYBRID DS) COMPOSITION - for management of DS heater with heating-only boiler and pdc

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134969	HYBRID DS 1 DIR - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⬦	-	1 DIRECT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130801	CONNECT HYBRID 1D MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
1220599	POCKET PROBE KIT				1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134970	HYBRID DS 2 DIR - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⬦	-	2 DIRECT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130802	CONNECT HYBRID 2D MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
1220599	POCKET PROBE KIT				1 pc.

CODE	DESCRIPTION	MANAGEMENT COMFORT	MANAGEMENT DHW		MANAGEMENT ZONES
20134971	HYBRID DS 1HT/1LT - DHW (HEATING ONLY-PDC)	hot / cold	⚡ ⬦	-	1HT + 1LT
CONSISTING OF:					
20134449	REC 10 H HYBRID SYSTEMS MANAGEMENT CONTROL				1 pc.
20130803	CONNECT HYBRID HT/LT MODULE				1 pc.
1220559	OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR				1 pc.
20131755	DIVERTING VALVE KIT FOR HEATER MANAGEMENT (WITH PHOTOVOLTAIC INPUT)				1 pc.
1220599	POCKET PROBE KIT				1 pc.

⚡ Hydronic Unit heat pump; ⬦ combined condensing boiler for built-in installation
To house the Hybrid kits it is necessary to purchase the BOX for built-in installation, code 20130808 and, if necessary, the cock kit code 20131752.
The Hybrid system codes do not include boiler, heat pump, heater and inertial buffer tank: to be chosen from the codes specified in the combination tables.

Hybrid DS systems: with kit E, heating-only boiler, heat pump - two zones (1HT + 1LT)

The system is controlled by the Rec 10 H hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.

Basic layout purely for illustrative purposes

Key:
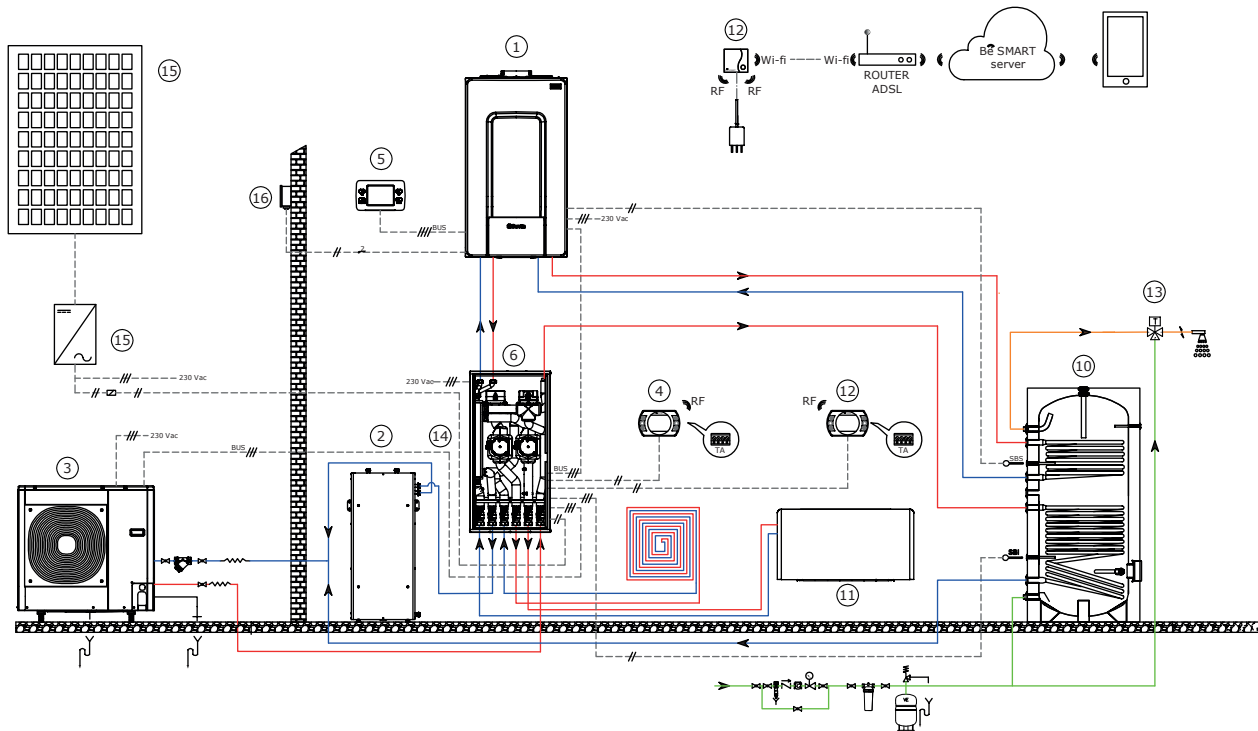
1 EXCLUSIVE / MYNUTE X
2 STOR H 50 - 50-litre inertial buffer tank
3 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B
4 BeSMART Comfort Control
5 REC 10 H hybrid systems management control (code sold in kit E - Hybrid DS - heating-only / pdc) [1]
6 Kit E - Hybrid DS (heating only - pdc) built into the BOX and with optional cock kit
10 Double-coil domestic water heater
11 Tivano Fan coil
12 BeSMART Wi-Fi
13 Thermostatic mixing valve (optional code)
14 Photovoltaic input board (included in kit E - Hybrid DS - heating-only / pdc)
15 Photovoltaic string with inverter
16 External probe

Possible solutions*:

1 HT zone or 1 direct LT zone
2 HT zones or 2 direct LT zones
1 HT zone + 1 LT zone (as per diagram)
Cooling using TIVANO FAN COIL

(*) The mixed zone is managed with motorised mixing valves and self-modulating circulating pumps

[1] The REC 10H - Hybrid control, in the presence of Exclusive R boilers, can be installed on the boiler instead of the standard control panel.
If it is installed on the wall, it is necessary to disconnect the control on the boiler, while remaining on the machine.
For all configurations, refer to the applicable design and installation regulations and the technical manuals of the product.

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

A+ SYSTEM

TOWER GREEN HYBRID S + heat pump form a class A+ system
Management of multiple energy sources: condensing boiler, solar thermal unit, hydronic heat pump for heating and cooling
Very high Modulation 1:10
Low polluting emission: class 6 (UNI EN 15502)
System zone circulating pumps: low consumption **self-modulating** with **head up to 7 m** (EEI≤0.20)
Possibility to control up to 3 zones with kits that can be housed indoor
Preset for connection to solar thermal panels and hydronic heat pump
Remotely controllable interface equipped with ambient sensor
18-litre solar circuit expansion reservoir as standard
200-litre storage tank heater with double coil
(5-year warranty)
8-litre domestic water expansion reservoir as standard
Thermoregulation with external probe as standard
For gas conversion, please contact the authorised Beretta Technical Service Centres

Pre-mixed condensing boiler

CODE MTN	MODEL	DIMENSIONS H X L X D (mm)	HEAT INPUT Min - Max (kW)	HEATER CAPACITY (litres)	CLASS	
COMBINED WITH HEATER						
20142496	TOWER GREEN Hybrid S 35/200 BSI with solar	1900 x 600 x 775	3.5 - 35	200 double coil	A	A

The boiler is complete with a hydraulic compensator with a direct low consumption zone.
The code Tower GREEN HE HYBRID S does not include solar collector and heat pump: to be chosen according to the actual needs among the codes proposed in the combination tables.

Accessories

CODE	DESCRIPTION
20137523	Split system kit ø80
20132018	Wall-hung flue gas collector ø60-100 for indoor installations
20093833	Self-modulating circulating pump additional direct zone kit - suitable for cold
20093831	Self-modulating circulating pump additional motorised mixed zone kit - suitable for cold
20104496	25-litre cylindrical technical tank kit [4]
20150823	Remote interface kit
20147627	Remote interface kit with release button
20171999	STOR H 50 - 50-litre inertial buffer tank [4]
20142300	STOR H 100 - 100-litre technical hot/cold tank kit [4] [5]
20085223	Limit thermostat for low-temperature systems
20084749	Domestic water recirculation kit with circulating pump
20084750	Heating system and domestic water shut-off cock kit
20106843	Zone remote control panel with chronothermostat function [A]
20106844	Installation template kit
20097192	Condensate booster pump kit
20063872	ALPHA 7D weekly digital chronothermostat (86x86x20 mm)
20101748	ALPHA 7D WIRELESS weekly digital chronothermostat (86x86x20 mm) [3]
20059639	ALPHA DGT digital thermostat (86x86x20 mm)
20059641	ALPHA DGT WIRELESS digital thermostat (86x86x20 mm)

(A) To use the additional zone chronothermostat, the device allows heating/cooling to be turned on only through time programming

BeSMART Comfort Controls for management of domestic comfort via Smartphone and Tablet [*]

CODE	DESCRIPTION
20143539	BeSMART Wi-Fi Comfort Control [1]
20143659	BeSMART Comfort Controls [2]
20111885	Wi-Fi Box for Internet connection via home ADSL router
20112079	RF - WIRELESS boiler receiver

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the BeSmart Comfort Control in the THERMOREGULATION section of the Price List Catalogue
(1) With Wi-Fi Box included for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 (accessory not included and necessary for Internet connection via home ADSL router)
(3) The RF WIRELESS receiver, supplied with kit 20101748 ALPHA 7 D WIRELESS, can be installed in case you have the Wi-Fi Box and the ADSL Wi-Fi signal in the house is weak near the boiler, by connecting it in the boiler instead of the Wi-Fi Box that in turn could be moved closer to the ADSL Wi-Fi router of the house. In this case the RF WIRELESS receiver would have the function of RF signal bridge and the ALPHA 7D would be paired with the Wi-Fi Box, maintaining the WIRELESS communication (only ON/OFF installations).
(4) Provide at least 3.5 litres per kW of Hydronic Unit B heat pump cooling output
(5) Code with limited availability

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Additional zone configurations

ZONE MANAGEMENT	CODE ADDITIONAL DIRECT ZONE 20093833	CODE ADDITIONAL MIXED ZONE 20093831
1 direct zone + 1 mixed zone	-	No. 1
1 direct zone + 2 mixed zones	-	No. 2
2 direct zones	No. 1	-
3 direct zones	No. 2	-
2 direct zones + 1 mixed zone	No. 1	No. 1

Hydronic Unit B HE heat pumps that can be combined with Tower Green HE Hybrid S

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20161618	HYDRONIC UNIT B HE 5 [3]	821 x 908 x 350	5.10 / 4.85	A++	A+++
20161619	HYDRONIC UNIT B HE 7 [3]	821 x 908 x 350	7.15 / 8.00	A++	A+++
20161620	HYDRONIC UNIT B HE 11 [3]	1363 x 908 x 350	11.25 / 13.70	A++	A++
20161621	HYDRONIC UNIT B HE 15 [3]	1.363 x 908 x 326	15.10 / 16.00	A++	A++
20161622	HYDRONIC UNIT B HE 11T [3]	1.363 x 908 x 326	11.20 / 13.75	A++	A++
20161623	HYDRONIC UNIT B HE 15T [3]	1.363 x 908 x 326	15.00 / 17.00	A++	A++

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
(3) Available from February 2021
FREE start-up for Hydronic Unit B HE heat pumps

TOWER GREEN HE HYBRID S

Hydronic Unit heat pump that can be combined with Tower Green HE Hybrid S

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20103221	HYDRONIC UNIT LE 4 B	821 x 908 x 326	4.07 / 4.93	A++	A+
20103222	HYDRONIC UNIT LE 6 B	821 x 908 x 326	5.76 / 7.04	A++	A+

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE B heat pumps

Solar collectors that can be combined with Tower Green HE Hybrid S

CODE	DESCRIPTION	MODEL
20184340	FLAT COLLECTOR 2.5 m² [1]	SCF-25/4B
20095379	FLAT COLLECTOR 2 m²	SCF-20B

For bracket codes and glycol refer to the solar thermal section
(1) Available from April 2021.

Brackets and glycol selection table

COLLECTOR CODE	BRACKETS FOR SLANTING ROOF	BRACKETS FOR UNDERTILE SLANTING ROOF	BRACKETS FOR FLAT ROOF	GLYCOL (5 kg)
20184340 [1]	20104603	20104630	20104624	4383085
20095379	20104652	20104685	20104677	4383085

(1) Available from April 2021.

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG BOILERS
FLOOR STANDING BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

System diagram with Tower Green HE Hybrid S, solar and heat pump

ACS

ACS

AFS
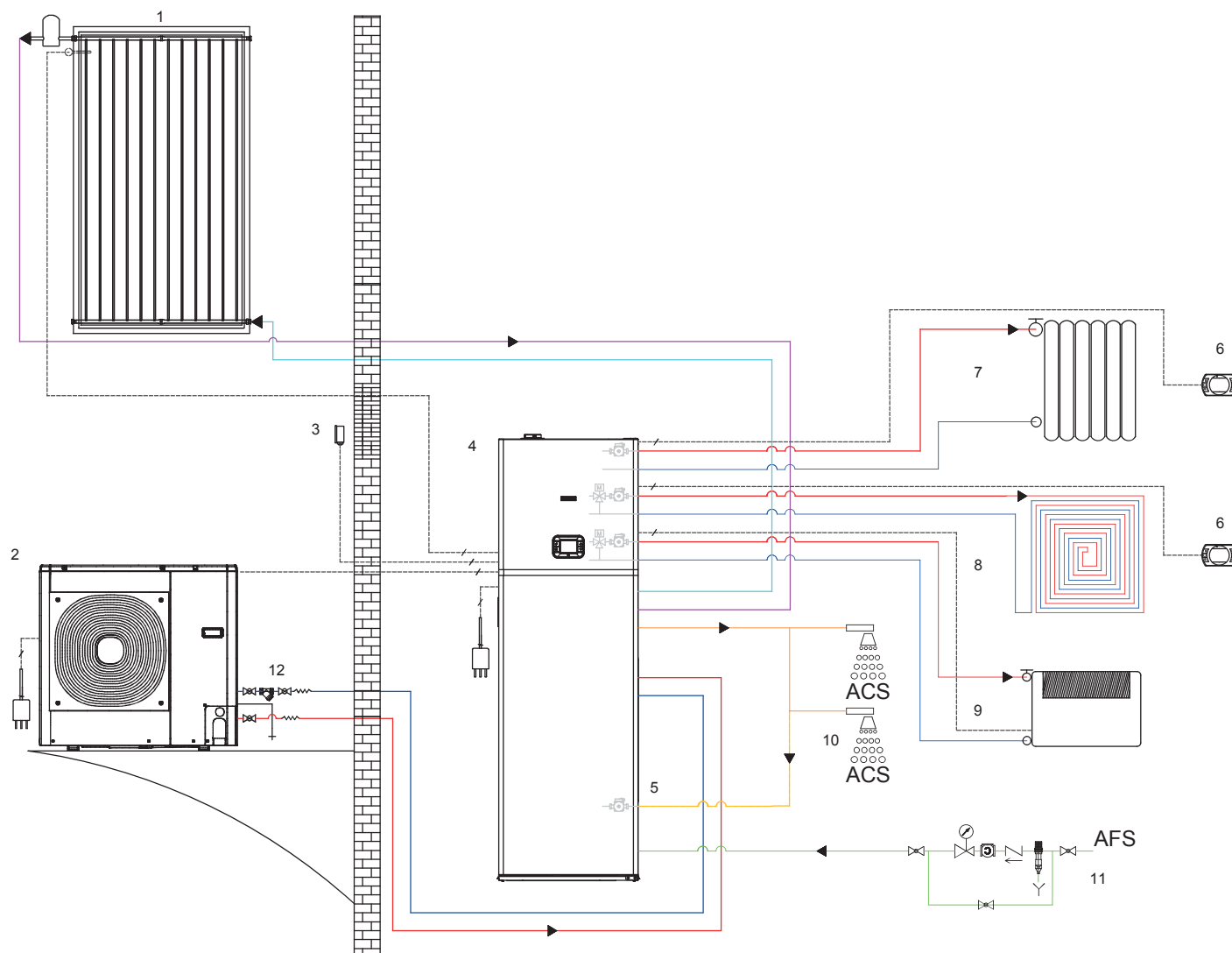
Basic layout purely for illustrative purposes

Key:

01 Flat solar collector SCF-25/4B

02 HYDRONIC UNIT B HE heat pump, 5, 7, 11 kW

03 External probe positioned north-north-west

04 TOWER GREEN HE HYBRID S 35/200 BSI floor-standing condensing boiler with one direct zone as standard and two optional mixed zones

05 Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulating pump with timer)

06 BeSMART Comfort Control (can be combined with Wi-Fi BOX)

07 Direct/high temperature zone (TIVANO fan coil or radiator)

08 Zone No. 1 mixed/low temperature (or direct) for floor-standing system

09 Zone No. 2 mixed/low temperature (or direct) for TIVANO fan coil

10 User/domestic hot water

11 DCW

12 Mesh filter

IF NECESSARY, PROVIDE A SUITABLY SIZED TECHNICAL STORAGE TANK: STOR H 50, STOR H 100 OR A LARGER STOR H INERTIAL BUFFER TANK

TOWER GREEN HE HYBRID

Beretta

A⁺ SYSTEM

TOWER GREEN HYBRID + heat pump form a class A+ system
Management of multiple energy sources: condensing boiler, hydronic heat pump for heating, cooling and domestic water
Very high Modulation 1:10
Low polluting emission: class 6 (UNI EN 15502)
System zone circulating pumps: low consumption **self-modulating** with **head up to 7 m** (EEI≤0.20)
Possibility to control up to 3 zones with kits that can be housed indoor
Preset for connection to hydronic heat pump
Remotely controllable interface equipped with ambient sensor
200-litre storage tank heater with double coil
8-litre domestic water expansion reservoir as standard
Thermoregulation with external probe as standard
For gas conversion, please contact the authorised Beretta Technical Service Centres

Pre-mixed condensing boiler

CODE MTN	MODEL	DIMENSIONS H X L X D (mm)	HEAT INPUT Min - Max (kW)	HEATER CAPACITY (litres)	CLASS	XL
COMBINED WITH HEATER						
20142498	TOWER GREEN Hybrid 35/200 BSI without solar	1900 x 600 x 775	3.5 - 35	200 double coil	A	A

The boiler is complete with a hydraulic compensator with a direct low consumption zone.
The code Tower GREEN HE HYBRID does not include the heat pump: to be chosen according to the actual needs among the codes proposed in the combination tables.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Accessories

CODE	DESCRIPTION
20137523	Split system kit ø80
20132018	Wall-hung flue gas collector ø60-100 for indoor installations
20093833	Self-modulating circulating pump additional direct zone kit - suitable for cold
20093831	Self-modulating circulating pump additional motorised mixed zone kit - suitable for cold
20104496	25-litre cylindrical technical tank kit [4]
20150823	Remote interface kit
20147627	Remote interface kit with release button
20171999	STOR H 50 - 50-litre inertial buffer tank [4]
20142300	STOR H 100 - 100-litre technical hot/cold tank kit [4] [5]
20085223	Limit thermostat for low-temperature systems
20084749	Domestic water recirculation kit with circulating pump
20084750	Heating system and domestic water shut-off cock kit
20106843	Zone remote control panel with chronothermostat function [A]
20106844	Installation template kit
20097192	Condensate booster pump kit
20063872	ALPHA 7D weekly digital chronothermostat (86x86x20 mm)
20101748	ALPHA 7D WIRELESS weekly digital chronothermostat (86x86x20 mm) [3]
20059639	ALPHA DGT digital thermostat (86x86x20 mm)
20059641	ALPHA DGT WIRELESS digital thermostat (86x86x20 mm)

(A) To use the additional zone chronothermostat, the device allows heating/cooling to be turned on only through time programming

BeSMART Comfort Controls for management of domestic comfort via Smartphone and Tablet [*]

CODE	DESCRIPTION
20143539	BeSMART Wi-Fi Comfort Control [1]
20143659	BeSMART Comfort Controls [2]
20111885	Wi-Fi Box for Internet connection via home ADSL router
20112079	RF - WIRELESS boiler receiver

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the BeSMART Comfort Control in the THERMOREGULATION section of the Price List Catalogue
(1) With Wi-Fi Box included for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 (accessory not included and necessary for Internet connection via home ADSL router)
(3) The RF WIRELESS receiver, supplied with kit 20101748 ALPHA 7 D WIRELESS, can be installed in case you have the Wi-Fi Box and the ADSL Wi-Fi signal in the house is weak near the boiler, by connecting it in the boiler instead of the Wi-Fi Box that in turn could be moved closer to the ADSL Wi-Fi router of the house. In this case the RF WIRELESS receiver would have the function of RF signal bridge and the ALPHA 7D would be paired with the Wi-Fi Box, maintaining the WIRELESS communication (only ON/OFF installations).
(4) Provide at least 3.5 litres per kW of Hydronic Unit B heat pump cooling output
(5) Code with limited availability

Additional zone configurations

ZONE MANAGEMENT	CODE ADDITIONAL DIRECT ZONE 20093833	CODE ADDITIONAL MIXED ZONE 20093831
1 direct zone + 1 mixed zone	-	No. 1
1 direct zone + 2 mixed zones	-	No. 2
2 direct zones	No. 1	-
3 direct zones	No. 2	-
2 direct zones + 1 mixed zone	No. 1	No. 1

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hydronic Unit B HE heat pumps that can be combined with Tower Green HE Hybrid

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20161618	HYDRONIC UNIT B HE 5 [3]	821 x 908 x 350	5.10 / 4.85	A++	A+++
20161619	HYDRONIC UNIT B HE 7 [3]	821 x 908 x 350	7.15 / 8.00	A++	A+++
20161620	HYDRONIC UNIT B HE 11 [3]	1363 x 908 x 350	11.25 / 13.70	A++	A++
20161621	HYDRONIC UNIT B HE 15 [3]	1.363 x 908 x 326	15.10 / 16.00	A++	A++
20161622	HYDRONIC UNIT B HE 11T [3]	1.363 x 908 x 326	11.20 / 13.75	A++	A++
20161623	HYDRONIC UNIT B HE 15T [3]	1.363 x 908 x 326	15.00 / 17.00	A++	A++

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C;
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
(3) Available from February 2021.
FREE start-up for Hydronic Unit B HE heat pumps

Hydronic Unit heat pump that can be combined with Tower Green HE Hybrid

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20103221	HYDRONIC UNIT LE 4 B	821 x 908 x 326	4.07 / 4.93	A++	A+
20103222	HYDRONIC UNIT LE 6 B	821 x 908 x 326	5.76 / 7.04	A++	A+

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C
(2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE B heat pumps

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Floor standing combined with HYBRID heater
TOWER GREEN HE HYBRID

Beretta

System diagram with Tower Green HE Hybrid and heat pump
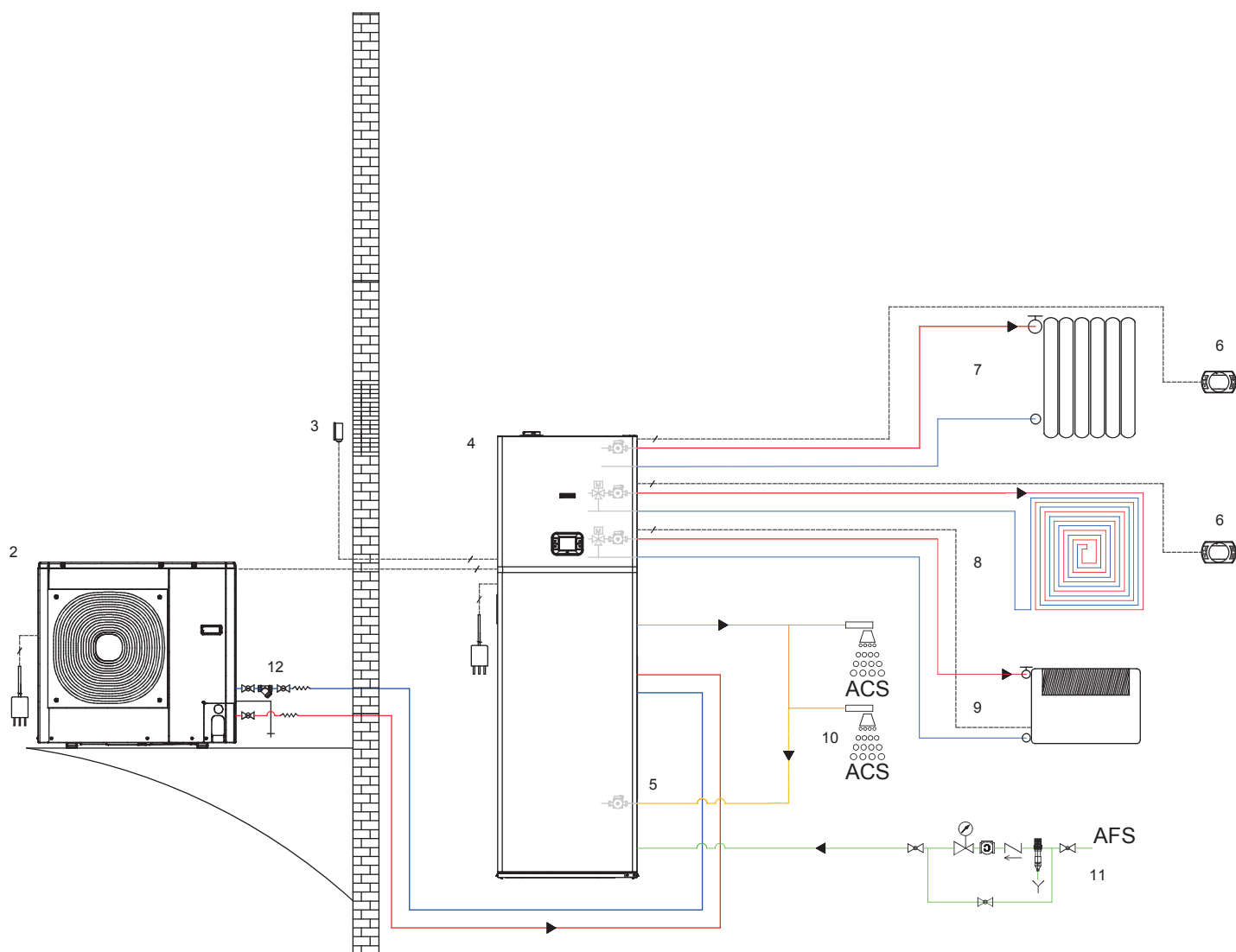
Basic layout purely for illustrative purposes

Key:

02 HYDRONIC UNIT B HE / HYDRONIC UNIT LE B

03 External probe positioned north-north-west

04 TOWER GREEN HE HYBRID S 35/200 BSI floor-standing condensing boiler with one direct zone as standard and two optional mixed zones

05 Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulating pump with timer)

06 BeSMART Comfort Control (can be combined with Wi-Fi BOX)

07 Direct/high temperature zone (TIVANO fan coil or radiator)

08 Zone No. 1 mixed/low temperature (or direct) for floor-standing system

09 Zone No. 2 mixed/low temperature (or direct) for TIVANO fan coil

10 User/domestic hot water

11 DCW

12 Mesh filter

IF NECESSARY, PROVIDE A SUITABLY SIZED TECHNICAL STORAGE TANK: STOR H 50, STOR H 100 OR A LARGER STOR H INERTIAL BUFFER TANK

HEAT PUMPS

>>

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

EXCLUSIVE FE - WALL-HUNG SPLIT HEAT PUMPS

Beretta

- **Wall-hung split heat pump system for heating, cooling and domestic hot water production.**
- **Wide range of outputs available, from 5 to 25kW.**
- High efficiency units up to A+++ class.
- Intelligent management of several auxiliary energy sources:
- integrative heating element, boiler, solar thermal unit.
- **Twin Rotary DC inverter compressor and electronic expansion valve as standard.**
- Fan with brushless motor and finned pack coil optimised for operation at outdoor air temperature of -20°C.
- Outdoor units in R410A with compact size and very low noise.
- Front access to all components.
- Simple and intuitive control panel with large backlit colour display that can be positioned in the room also with ambient probe function (Class V ErP).

Wall-hung split heat pumps - single-phase

CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	HEATING				COOLING				COMFORT MANAGEMENT	DHW MANAGEMENT	ZONE MANAGEMENT	CLASS	
			Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					(5)	(6)
			Nominal output (kW)	COP	Nominal output (kW)	COP	Nominal output (kW)	EER	Nominal output (kW)	EER					
20181815	EXCLUSIVE FE 5M	825x505x320(IU) 619x799x299(OU)	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	hot / cold	⚡	1 direct	A++	A++
20181816	EXCLUSIVE FE 7M	825x505x320(IU) 619x799x299(OU)	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	hot / cold	⚡	1 direct	A++	A++
20181817	EXCLUSIVE FE 9M	825x505x320(IU) 996x940x340(OU)	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	hot / cold	⚡	1 direct	A+++	A++
20181819	EXCLUSIVE FE 12M	825x505x320(IU) 1416x940x340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡	1 direct	A+++	A++
20181822	EXCLUSIVE FE 15M	825x505x320(IU) 1416x940x340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡	1 direct	A+++	A++

Wall-hung split heat pumps - three-phase

CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	HEATING				COOLING				COMFORT MANAGEMENT	DHW MANAGEMENT	ZONE MANAGEMENT	CLASS	
			Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					(5)	(6)
			Nominal output (kW)	COP	Nominal output (kW)	COP	Nominal output (kW)	EER	Nominal output (kW)	EER					
20181820	EXCLUSIVE FE 12T	825x505x320(IU) 1416x940x340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡	1 direct	A+++	A++
20181823	EXCLUSIVE FE 15T	825x505x320(IU) 1416x940x340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡	1 direct	A+++	A++
20181824	EXCLUSIVE FE 18T	825x505x320(IU) 1416x940x340(OU)	16.9	4.37	15.9	3.18	19.4	4.13	13.9	3.19	hot / cold	⚡	1 direct	A++	A++
20181825	EXCLUSIVE FE 25T	825x505x320(IU) 1500x980x370(OU)	24.8	4.06	23.2	2.93	27.9	4.20	19.9	3.15	hot / cold	⚡	1 direct	A++	A++

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

■ >> NEW

Specific accessories

CODE	DESCRIPTION
20117745	Heater IDRA HP 300
20117746	Heater IDRA HP 500
20171999	50-litre inertial buffer tank
20157335	2-4-6 kW three-phase heating element kit [1]
20155831	2-4-6 kW single-phase heating element kit [1]
20175064	1" DHW diverting valve with heater probe
20175281	1" Y water filter
20165227	Hybrid hydr. distr. hydraulic module 1 DIR

(1) The power of the heating element depends on the type of wiring performed during installation.

BeSMART Comfort Controls for management of domestic comfort via Smartphone and Tablet [*]

CODE	DESCRIPTION
20143539	BeSMART Wi-Fi Comfort Control [1]
20143659	BeSMART Comfort Control [2]
20111885	Wi-Fi Box for Internet connection via home ADSL router

(*) Possibility of OTBus or ON/OFF connection: for further details, refer to the pages dedicated to the BeSMART Comfort Control in the THERMOREGULATION section
(1) With Wi-Fi Box included for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 (accessory not included and necessary for Internet connection via home ADSL router)

Connect Module Accessories

CODE	DESCRIPTION
20130802	CONNECT HYBRID 2D MODULE
20130803	CONNECT HYBRID HT/LT MODULE [1]

(1) Limit thermostat on mixed zone only

Connect Hybrid Accessories

CODE	DESCRIPTION
20130808	BOX (ALSO FOR BUILT-IN INSTALLATION) FOR CONNECT HYBRID
20131752	COCK KIT FOR CONNECT HYBRID

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Indoor unit components
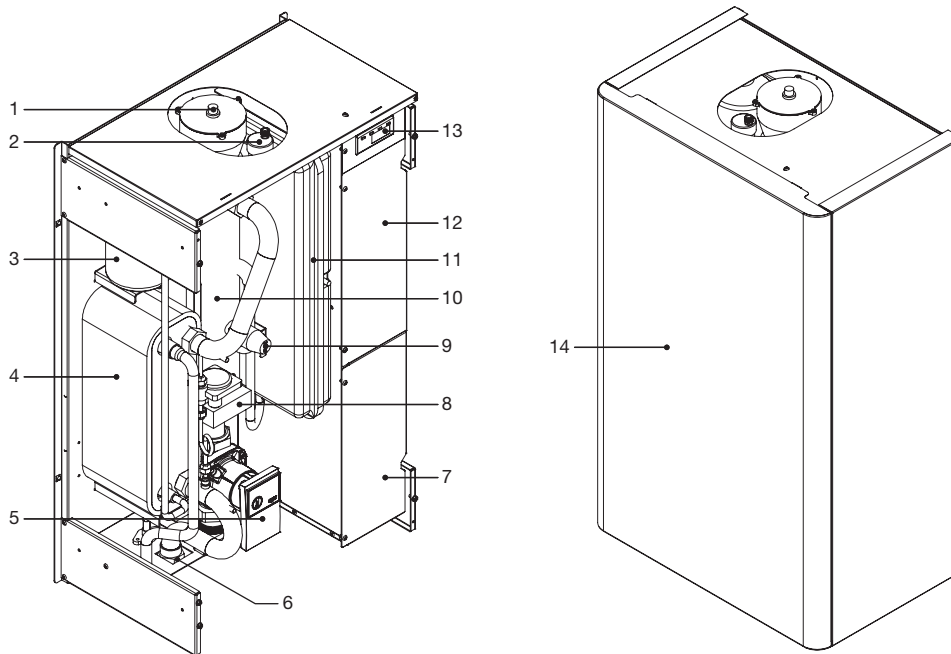
Key:

1	Heating element (accessory)
2	Air bleeding valve
3	Liquid receiver
4	Plate heat exchanger
5	Circulation pump
6	Refrigerant connections
7	Electrical panel
8	Differential pressure switch
9	Safety valve
10	Collector
11	Expansion reservoir
12	Outdoor unit board panel
13	Parameter setting panel
14	Access panel

Fixing and presetting template for pipe outlet from the wall

M10 dowels for wall fixing bracket

4 x M10

119,2
24,5
131,5
24
124,1
105,6
900
126

Area for hydraulic connections and refrigeration lines

Area for electrical connections

Linea aspirazione saldata 5/8SAE   Linea liquido saldata 3/8SAE   Ingresso acqua raccordo 1"

Uscita acqua raccordo 1"

46,5
104
125,5
240,5
139
501

EXCLUSIVE FE - WALL-HUNG SPLIT HEAT PUMPS
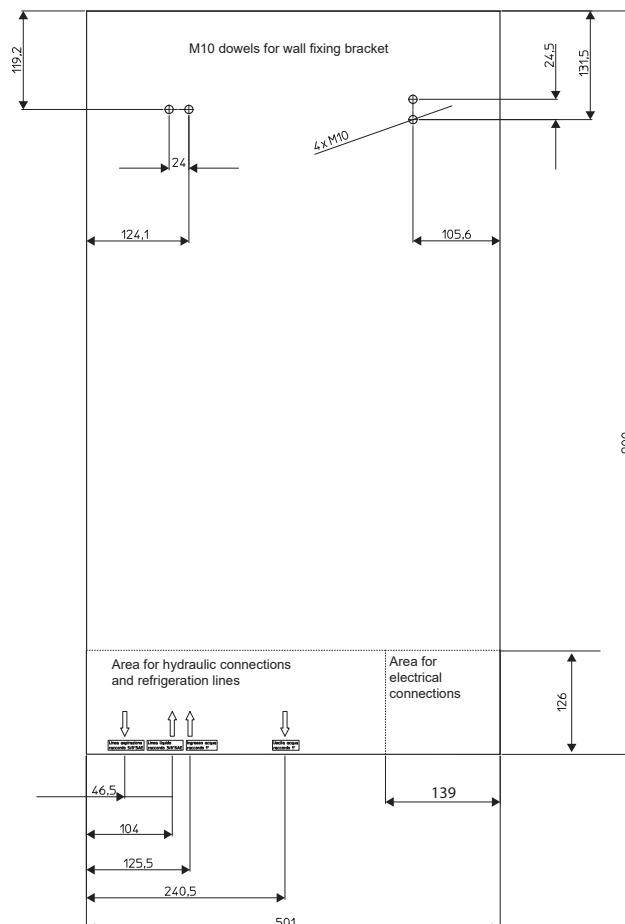
Connection inlets and outlets
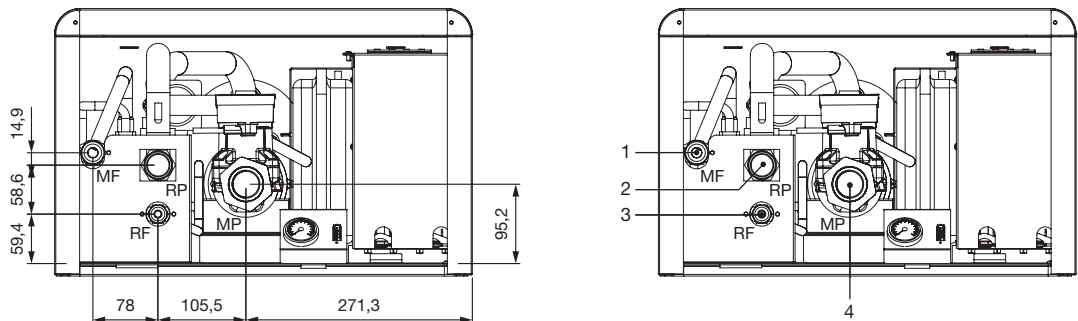
Key:
(MF) Gas line (3/8", 1/2" 25T)
(RP) System return (1", 1" 1/4 25T)
(RF) Liquid line (5/8", 3/4" 25T)
(MP) System delivery (1", 1" 1/4 25T)

Connections are all located on the bottom of EXCLUSIVE FE indoor unit:
1 Gas line (3/8", 1/2" 25T)
2 System return (1", 1" 1/4 25T)
3 Liquid line (5/8", 3/4" 25T)
4 System delivery (1", 1" 1/4 25T)

Refrigerant connections between outdoor and indoor units
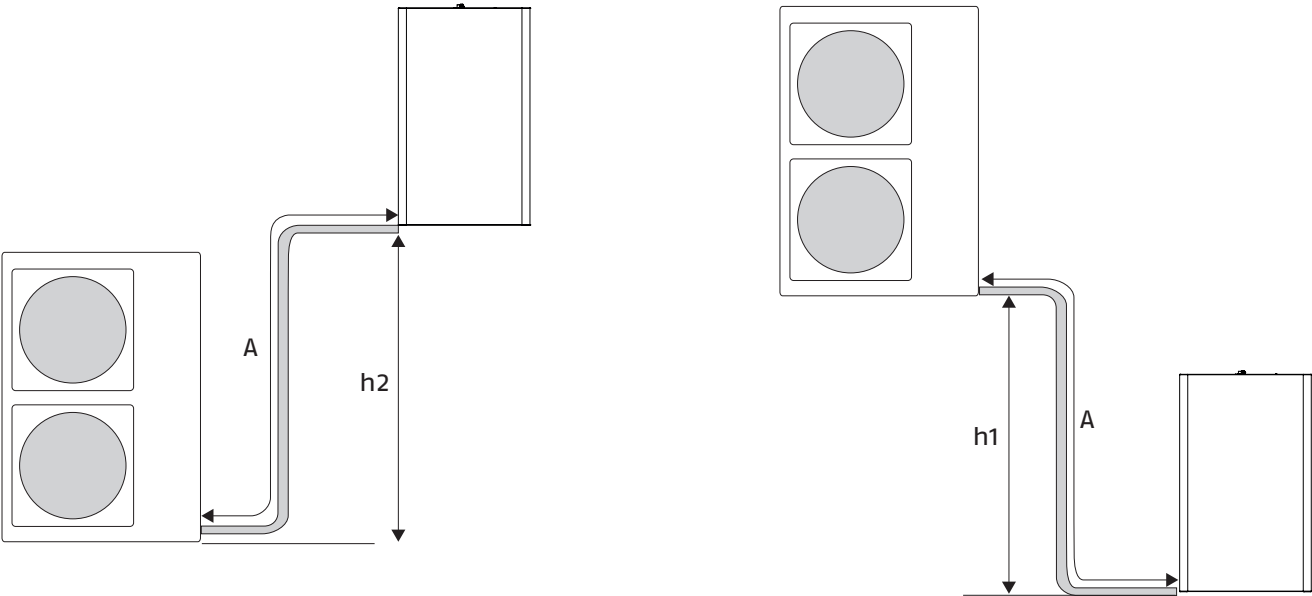
Length of connection pipes without topping up gas charge		m	30
Top-up R410A charge required for lines between 30 and 50 m in length		g/m	40
Maximum length allowed	A	m	50 - 30 (25T)
Maximum difference in elevation between the 2 units when the outdoor unit is positioned higher	H1	m	30
Maximum difference in elevation between the 2 units when the outdoor unit is at a lower position	H2	m	15

No traps are required in the refrigerant lines as the compressors of the external units are equipped with oil separators.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Indoor unit dimensions
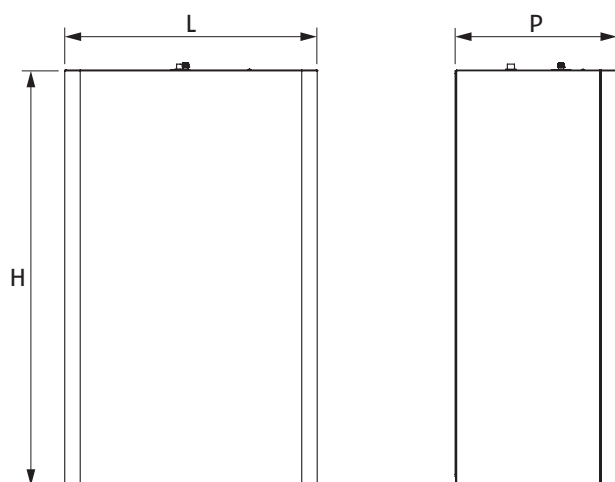
EXCLUSIVE FE MODELS	U.O.M	ASL M	MDM M	MDM T	LRG T
OVERALL DIMENSIONS					
H	mm	825	825	825	825
L	mm	505	505	505	505
P	mm	320	320	320	320
WEIGHT					
Net weight	kg	41.0	41.0	43.0	49.0

Outdoor unit dimensions

Models 5M and 7M
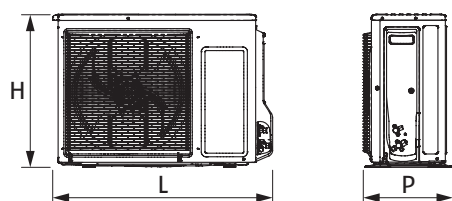
Model 9M
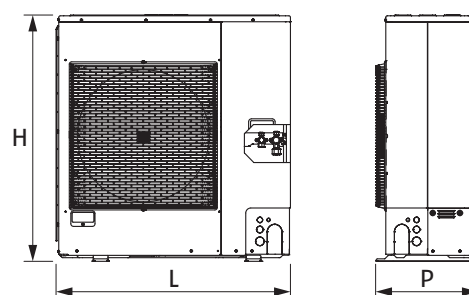
Models 12M/T, 15M/T and 18T
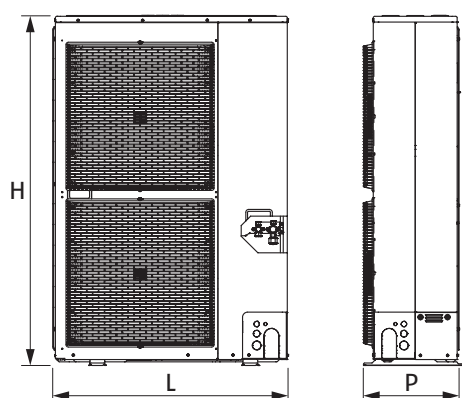
Model 25T
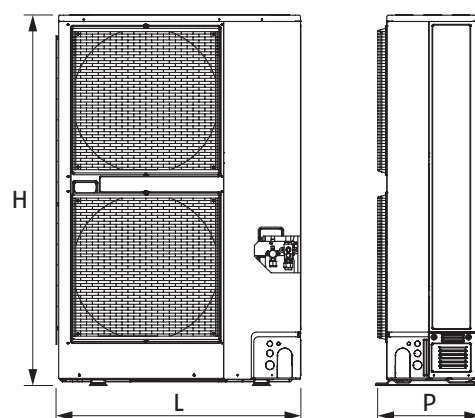
EXCLUSIVE FE MODELS	U.O.M	5M	7M	9M	12M	15M	12T	15T	18T	25T
OVERALL DIMENSIONS										
H	mm	619	619	996	1.416	1.416	1.416	1.416	1.416	1.500
L	mm	799	799	940	940	940	940	940	940	980
P	mm	355	355	381	381	381	381	381	381	406
WEIGHT										
Net weight	kg	39	40	69	98	98	98	98	98	138

EXCLUSIVE FE - WALL-HUNG SPLIT HEAT PUMPS

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Technical data

DESCRIPTION	U.O.M.	5M	7M	9M	12M	15M	12T	15M	18T	25T
HEATING PERFORMANCE (A7°C D.B.; W35°C)										
Nominal thermal power	kW	4.80	7.10	8.10	12.80	14.60	12.80	14.60	16.90	24.80
COP (BT)		4.11	4.33	4.53	4.44	4.58	4.44	4.58	4.37	4.06
Nominal water flow	m³/h	0.8	1.2	1.4	2.2	2.5	2.2	2.5	2.2	4.3
Nominal residual head	kPa	71.0	60.0	55.0	68.0	58.0	68.0	58.0	44.0	40.0
HEATING PERFORMANCE (A7°C D.B.; W45°C)										
Thermal power output (MT)	kW	4.50	6.70	7.60	12.00	13.70	12.00	13.70	15.90	23.20
COP (MT)		2.96	3.13	3.46	3.37	3.40	3.37	3.40	3.18	2.93
HEATING PERFORMANCE (A7°C D.B.; W55°C)										
Thermal power	kW	4.20	6.20	7.10	11.10	12.70	11.10	12.70	14.80	17.00
COP		2.10	2.21	2.45	2.39	2.41	2.39	2.41	2.24	2.07
COOLING PERFORMANCE (A35°C; W18°C)										
Nominal cooling power	kW	5.10	7.40	8.70	12.30	15.60	12.30	15.60	19.40	27.90
EER		3.43	4.02	4.21	4.09	4.00	4.09	4.00	4.13	4.20
COOLING PERFORMANCE (A35°C; W7°C)										
Cooling power	kW	3.50	5.30	6.30	8.90	11.20	8.90	11.20	13.90	19.90
EER		2.48	3.03	3.18	3.22	3.20	3.22	3.20	3.19	3.15
Nominal water flow	m³/h	0.9	1.3	1.5	2.1	2.7	2.1	2.7	3.3	4.8
ELECTRICAL CHARACTERISTICS										
Electrical power supply	V/Ph/Hz			230/1/50				400/3N/50		
Maximum total absorbed power	kW	2.10	3.90	3.90	5.60	5.90	6.20	6.50	7.50	13.40
Maximum total input current	A	9.10	18.00	18.00	25.00	28.00	9.00	10.00	11.30	12.20
CHARACTERISTICS WITH HEATING ELEMENT (6 kW)										
Maximum total absorbed power	kW	8.10	9.90	9.90	11.60	11.90	12.20	12.50	13.50	19.40
Maximum total input current	A	35.20	44.10	44.10	51.10	54.10	35.10	36.10	37.40	38.30
HYDRAULIC DATA										
Minimum water content in the system	l	20	30	40	50	65	50	65	75	110
Nominal output (A7; W35)	l/min	0.7	0.8	0.8	1.4	1.6	1.4	1.6	1.9	2.9
Maximum allowable temperature on system side	°C					65				
NOISE LEVEL DATA										
Internal unit: sound pressure @1m	dB(A)	46	46	46	47	47	47	47	47	48
External unit: sound pressure @1m HEATING	dB(A)	68	69	67	69	70	69	70	71	82
External unit: sound pressure @1m COOLING	dB(A)	65	65	65	69	70	69	70	71	80

Operating limits
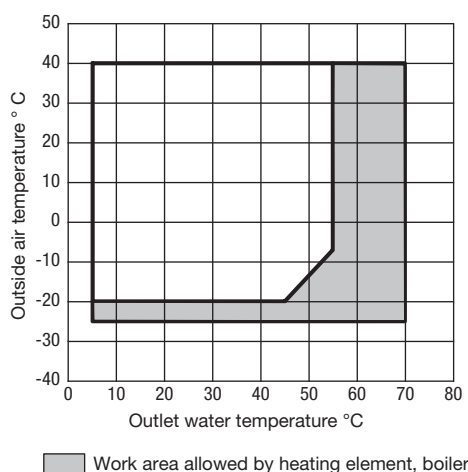
Heating mode

Cooling mode
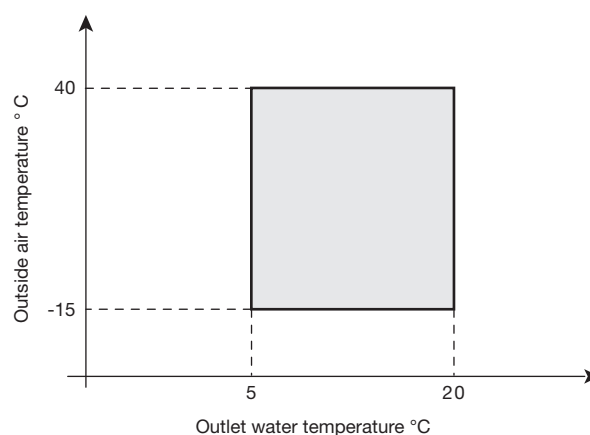
Work area allowed by heating element, boiler

- **Floor-standing split heat pump suitable for heating, cooling and domestic hot water production.**
- High-efficiency units with models ready for A+++ class implementation.
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room.
- **Twin Rotary DC inverter compressor and electronic expansion valve as standard.**
- Fan with brushless motor and finned pack coil optimised for operation at outdoor air temperature of -20°C.
- **200-litre inertial buffer tank and high-surface stainless steel coil for instantaneous production of domestic hot water.**
- Compact size and very low noise.
- Hydraulic, electrical and refrigeration connections from above.
- Front access to all components.
- Simplified installation thanks to the cock kit (optional) and the hydraulic separator and circulating pump kits (necessary accessories).
- Outdoor unit pre-charged with R410A.
- **Connections for 2 direct zones with independent temperatures (dedicated connections for design radiators - MAX 1.5 kW).**
- Possible integration with a secondary generator through dedicated hydraulic connections and integrated management logics.

Floor-standing split heat pumps - single-phase

| | | | HEATING | | | | COOLING | | | | | | | CLASS | |
| | | | Floor [1] | | Fan coils [2] | | Floor [3] | | Fan coils [4] | | | | | | |
CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	Nominal output (kW)	COP	Nominal output (kW)	COP	Nominal output (kW)	EER	Nominal output (kW)	EER	COMFORT MANAGEMENT	DHW MANAGEMENT	ZONE MANAGEMENT	▮▮▮▮ [5]	🚰 [6]
20162673	TOWER GREEN FE 5M	600×600×2000(IU) 619×799×299(OU)	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	hot / cold	⚡	2 direct independent	A⁺⁺	A 〉L
20162691	TOWER GREEN FE 7M	600×600×2000(IU) 619×799×299(OU)	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	hot / cold	⚡	2 direct independent	A⁺⁺	A 〉L
20162692	TOWER GREEN FE 9M	600×600×2000(IU) 996×940×340(OU)	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	hot / cold	⚡	2 direct independent	A⁺⁺⁺	A 〉L
20162694	TOWER GREEN FE 12M	600×600×2000(IU) 1416×940×340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡	2 direct independent	A⁺⁺⁺	A 〉XL
20162696	TOWER GREEN FE 15M	600×600×2000(IU) 1416×940×340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡	2 direct independent	A⁺⁺⁺	A 〉XL

For correct installation of TOWER GREEN FE, the mandatory kits in the next page, in the specific accessory section, are required.

Delivery time of the material if not available in stock: up to 30 working days from order validation date.

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

(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) Tank set temperature 53°C. Values compliant with standard EN 16147

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

Floor-standing split heat pumps - three-phase

CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	HEATING				COOLING				COMFORT MANAGEMENT	DHW MANAGEMENT	ZONE MANAGEMENT	CLASS		
			Floor [1]		Fan coils [2]		Floor [3]		Fan coils [4]					▥ [5]	⌐ [6]	
			Nominal output (kW)	COP	Nominal output (kW)	COP	Nominal output (kW)	EER	Nominal output (kW)	EER						
20162697	TOWER GREEN FE 12T	600×600×2000(IU) 1416×940×340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡	2 direct independent	A⁺⁺⁺	A	XL
20162699	TOWER GREEN FE 15T	600×600×2000(IU) 1416×940×340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡	2 direct independent	A⁺⁺⁺	A	XL

For correct installation of TOWER GREEN FE, the mandatory kits in the specific accessory table are required.
Delivery time of the material if not available in stock: up to 30 working days from order validation date.
The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(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) Tank set temperature 53°C. Values compliant with standard EN 16147

Specific accessories

CODE	DESCRIPTION
20155924	Cock kit [1]
20155826	Secondary circuit circulating pump and hydraulic separator kit S [2]
20155827	Secondary circuit circulating pump and hydraulic separator kit L [3]
20155834	Average temperature circulating pump kit
20155831	2-4-6 kW single-phase heating element kit [4]
20157335	2-4-6 kW three-phase heating element kit [4]
20150823	Remote interface kit

Delivery time of the material if not available in stock: up to 30 working days from order validation date.
(1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and design radiators, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) Accessory that can be combined only with models 5M and 7M. This accessory must be installed in the unit before connecting it to the system.
(3) Accessory that can be combined with models 9M-12M-15M-12T-15T. This accessory must be installed in the unit before connecting it to the system.
(4) The power of the heating element depends on the type of wiring performed during installation.

BeSMART Comfort Controls for management of domestic comfort via Smartphone and Tablet [*]

CODE	DESCRIPTION
20143539	BeSMART Wi-Fi Comfort Control [1]
20143659	BeSMART Comfort Control [2]
20111885	Wi-Fi Box for Internet connection via home ADSL router

(*) Possibility of OTBus or ON/OFF connection: for further details, refer to the pages dedicated to the BeSMART Comfort Control in the THERMOREGULATION section
(1) With Wi-Fi Box included for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 (accessory not included and necessary for Internet connection via home ADSL router)

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Tivano Fan coil

CODE	DESCRIPTION
20116276	TIVANO 23 fan coil
20116277	TIVANO 45 fan coil
20116278	TIVANO 64 fan coil
20116279	TIVANO 76 fan coil
20116280	TIVANO 94 fan coil
20116281	TIVANO R 23 fan coil (radiant)
20116282	TIVANO R 45 fan coil (radiant)
20116284	TIVANO R 64 fan coil (radiant)
20116285	TIVANO R 76 fan coil (radiant)
20116288	TIVANO R 94 fan coil (radiant)
20116481	REMOTE ALPHA TIVANO - Interface board for three-speed external thermostats
20116484	ALPHA TIVANO 20 IN - Thermostat on fan coil with speed switch

TIVANO Wall fan coil

CODE	DESCRIPTION
20148838	TIVANO WALL 27
20148839	TIVANO WALL 41
20148840	TIVANO WALL 57

Connect Module Accessories

CODE	DESCRIPTION
20130802	CONNECT HYBRID 2D MODULE
20130803	CONNECT HYBRID HT/LT MODULE [1]

(1) Limit thermostat on mixed zone only

Connect Hybrid Accessories

CODE	DESCRIPTION
20130808	BOX (ALSO FOR BUILT-IN INSTALLATION) FOR CONNECT HYBRID
20131752	COCK KIT FOR CONNECT HYBRID

TOWER GREEN FE S - FLOOR-STANDING SPLIT HEAT PUMPS

- **Floor-standing split heat pump suitable for heating, cooling, domestic hot water production and connection to solar thermal unit.**
- High-efficiency units with models ready for A+++ class implementation.
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room.
- **Twin Rotary DC inverter compressor and electronic expansion valve as standard.**
- Fan with brushless motor and finned pack coil optimised for operation at outdoor air temperature of -20°C.
- **200-litre inertial buffer tank and high-surface stainless steel coil for instantaneous production of domestic hot water.**
- Compact size and very low noise.
- Hydraulic, electrical and refrigeration connections from above.
- Front access to all components.
- Simplified installation thanks to the cock kit (optional) and the hydraulic separator and circulating pump kits (necessary accessories).
- Outdoor unit pre-charged with R410A.
- **Connections for 2 direct zones with independent temperatures (dedicated connections for design radiators - MAX 1.5 kW).**
- Possible integration with a secondary generator through dedicated hydraulic connections and integrated management logics.

Floor-standing split heat pumps fitted for Solar thermal unit - single-phase

CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	HEATING Floor (1) Nominal output (kW)	COP	Fan coils (2) Nominal output (kW)	COP	COOLING Floor (3) Nominal output (kW)	EER	Fan coils (4) Nominal output (kW)	EER	COMFORT MANAGEMENT	DHW MANAGEMENT	ZONE MANAGEMENT	CLASS (5)	(6)
20162701	TOWER GREEN FE S 5M	600×600×2000(IU) 619×799×299(OU)	4.8	4.11	4.5	2.96	5.1	3.43	3.5	2.48	hot / cold	⚡☀	2 direct independent	A⁺⁺	A L
20162702	TOWER GREEN FE S 7M	600×600×2000(IU) 619×799×299(OU)	7.1	4.33	6.7	3.13	7.4	4.02	5.3	3.03	hot / cold	⚡☀	2 direct independent	A⁺⁺	A L
20162703	TOWER GREEN FE S 9M	600×600×2000(IU) 996×940×340(OU)	8.1	4.53	7.6	3.46	8.7	4.21	6.3	3.18	hot / cold	⚡☀	2 direct independent	A⁺⁺⁺	A L
20162704	TOWER GREEN FE S 12M	600×600×2000(IU) 1416×940×340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡☀	2 direct independent	A⁺⁺⁺	A XL
20162705	TOWER GREEN FE S 15M	600×600×2000(IU) 1416×940×340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡☀	2 direct independent	A⁺⁺⁺	A XL

For correct installation of TOWER GREEN FE, the mandatory kits in the next page, in the specific accessory section, are required.

Delivery time of the material if not available in stock: up to 30 working days from order validation date.

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

(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 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG BOILERS
FLOOR STANDING BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

TOWER GREEN FE S - FLOOR-STANDING SPLIT HEAT PUMPS

Floor-standing split heat pumps fitted for solar thermal unit - three-phase

| CODE | DESCRIPTION | DIMENSIONS H X L X D (mm) | HEATING | | | | COOLING | | | | COMFORT MANAGEMENT | DHW MANAGEMENT | ZONE MANAGEMENT | CLASS | | |
| | | | Floor [1] | | Fan coils [2] | | Floor [3] | | Fan coils [4] | | | | | IIII° [5] | [6] | |
			Nominal output (kW)	COP	Nominal output (kW)	COP	Nominal output (kW)	EER	Nominal output (kW)	EER						
20162707	TOWER GREEN FE S 12T	600×600×2000(IU) 1416×940×340(OU)	12.8	4.44	12.0	3.37	12.3	4.09	8.9	3.22	hot / cold	⚡☀	2 direct independent	A+++	A	XL
20162710	TOWER GREEN FE S 15T	600×600×2000(IU) 1416×940×340(OU)	14.6	4.58	13.7	3.40	15.6	4.00	11.2	3.20	hot / cold	⚡☀	2 direct independent	A+++	A	XL

For correct installation of TOWER GREEN FE, the mandatory kits in the specific accessory table are required
Delivery time of the material if not available in stock: up to 30 working days from order validation date.
The performance is in accordance with standards EN 14511:2013 and EN 14825:2016
(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 55 °C. Values in accordance with Regulation 811/2013
(6) Tank set temperature 53°C. Values compliant with standard EN 16147

Specific accessories

CODE	DESCRIPTION
20155924	Cock kit [1]
20155826	Secondary circuit circulating pump and hydraulic separator kit S [2]
20155827	Secondary circuit circulating pump and hydraulic separator kit L [3]
20155834	Average temperature circulating pump kit/design radiators
20155831	2-4-6 kW single-phase heating element kit [4]
20157335	2-4-6 kW three-phase heating element kit [4]
20150823	Remote interface kit

Delivery time of the material if not available in stock: up to 30 working days from order validation date.
(1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and design radiators, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
(2) Accessory that can be combined only with models 5M and 7M. This accessory must be installed in the unit before connecting it to the system.
(3) Accessory that can be combined with models 9M-12M-15M-12T-15T. This accessory must be installed in the unit before connecting it to the system.
(4) The power of the heating element depends on the type of wiring performed during installation.

BeSMART Comfort Controls for management of domestic comfort via Smartphone and Tablet [*]

CODE	DESCRIPTION
20143539	BeSMART Wi-Fi Comfort Control [1]
20143659	BeSMART Comfort Control [2]
20111885	Wi-Fi Box for Internet connection via home ADSL router

(*) Possibility of OTBus or ON/OFF connection: for further details, refer to the pages dedicated to the BeSMART Comfort Control in the THERMOREGULATION section
(1) With Wi-Fi Box included for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 (accessory not included and necessary for Internet connection via home ADSL router)

TOWER GREEN FE S - FLOOR-STANDING SPLIT HEAT PUMPS

Beretta

Solar collectors

CODE	DESCRIPTION	MODEL
20184340	FLAT COLLECTOR 2.5 m² [1]	SCF-25/4B
20095379	FLAT COLLECTOR 2 m²	SCF-20B

For bracket codes and glycol refer to the solar thermal section
(1) Available from April 2021

Tivano Fan coil

CODE	DESCRIPTION
20116276	TIVANO 23 fan coil
20116277	TIVANO 45 fan coil
20116278	TIVANO 64 fan coil
20116279	TIVANO 76 fan coil
20116280	TIVANO 94 fan coil
20116281	TIVANO R 23 fan coil (radiant)
20116282	TIVANO R 45 fan coil (radiant)
20116284	TIVANO R 64 fan coil (radiant)
20116285	TIVANO R 76 fan coil (radiant)
20116288	TIVANO R 94 fan coil (radiant)
20116481	REMOTE ALPHA TIVANO - Interface board for three-speed external thermostats
20116484	ALPHA TIVANO 20 IN - Thermostat on fan coil with speed switch

TIVANO Wall fan coil

CODE	DESCRIPTION
20148838	TIVANO WALL 27
20148839	TIVANO WALL 41
20148840	TIVANO WALL 57

Connect Module Accessories

CODE	DESCRIPTION
20130802	CONNECT HYBRID 2D MODULE
20130803	CONNECT HYBRID HT/LT MODULE [1]

(1) Limit thermostat on mixed zone only

Connect Hybrid Accessories

CODE	DESCRIPTION
20130808	BOX (ALSO FOR BUILT-IN INSTALLATION) FOR CONNECT HYBRID
20131752	COCK KIT FOR CONNECT HYBRID

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

Indoor unit components

Key:

1	Primary circuit circulation pump (P1)
2	Pressure gauge
3	Domestic hot water tank
4	Domestic water drain cock
5	Expansion reservoir
6	System filling cock
7	6-bar safety valve
8	Automatic drain valve
9	Liquid receiver
10	Collector
11	Plate exchanger
12	3-way valve
13	3-bar solar safety valve (*)
14	Solar pressure gauge (*)
15	Solar circuit pump (PSO) (*)
16	Solar expansion reservoir (*)
17	Hydraulic separator (**)
18	Secondary circuit circulation pump (P2) (**)
19	2/4/6 kW supplemental heating element (***)
20	Design radiator circulation pump (P3 (****)
(*)	Only for TOWER GREEN FE S
(**)	Hydraulic separator kit option
(***)	Supplemental heating element kit option
(****)	Design radiator kit option

Connection inlets and outlets
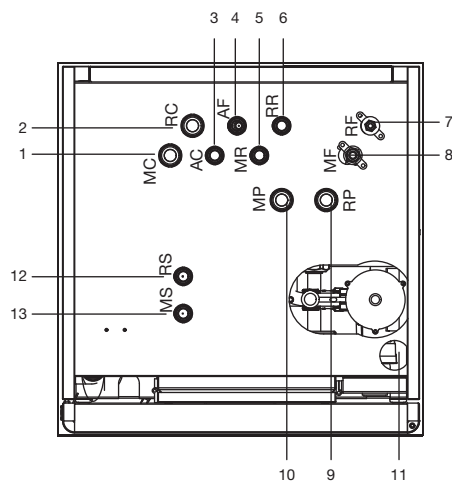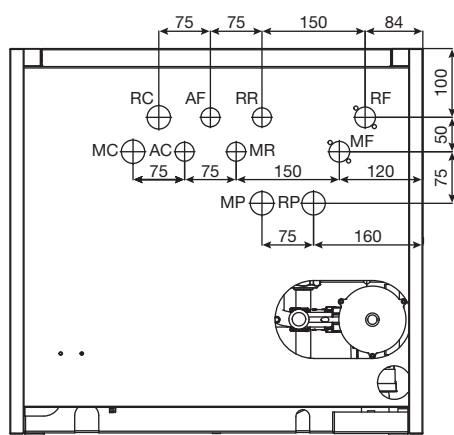
Key:

(MC)	Boiler delivery (1")
(RC)	Boiler return (1")
(AC)	Domestic hot water (3/4")
(AF)	Cold water inlet from mains line (3/4")
(MR)	Radiator delivery (3/4")
(RR)	Radiator return (3/4")
(RF)	Liquid line (3/8")
(MF)	Gas line (5/8")
(RP)	System return (1")
(MP)	System delivery (1")

Connections are all located on top of TOWER GREEN FE indoor unit:

1. Boiler delivery (1" with 3/4" reduction)
2. Boiler return (1")
3. Domestic hot water (3/4")
4. Cold water inlet from mains line (3/4")
5. Radiator delivery (3/4")
6. Radiator return (3/4")
7. Liquid line (3/8")
8. Gas line (5/8")
9. System return (1")
10. System delivery (1")
11. Cable entry hole
12. Solar return (3/4")
13. Solar delivery (3/4")

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

Beretta

HYBRID SYSTEMS

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WALL HUNG BOILERS

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SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Presetting template for pipe outlet from the wall
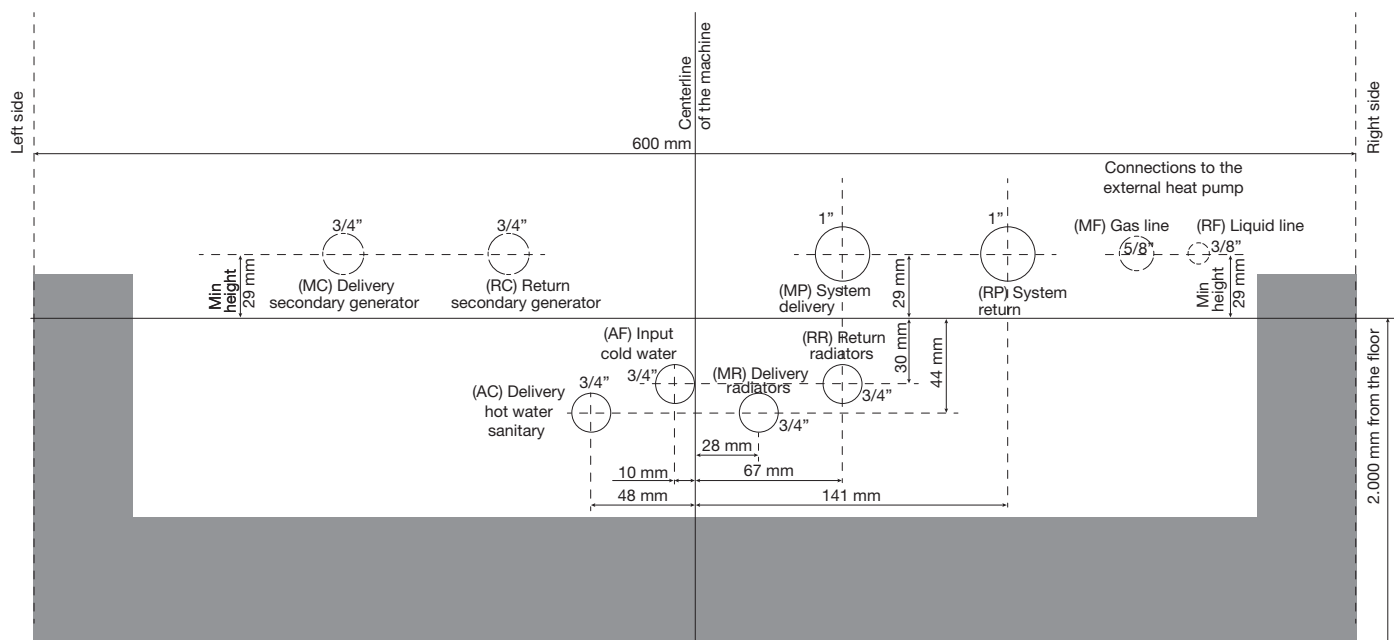
Refrigerant connections between outdoor and indoor units
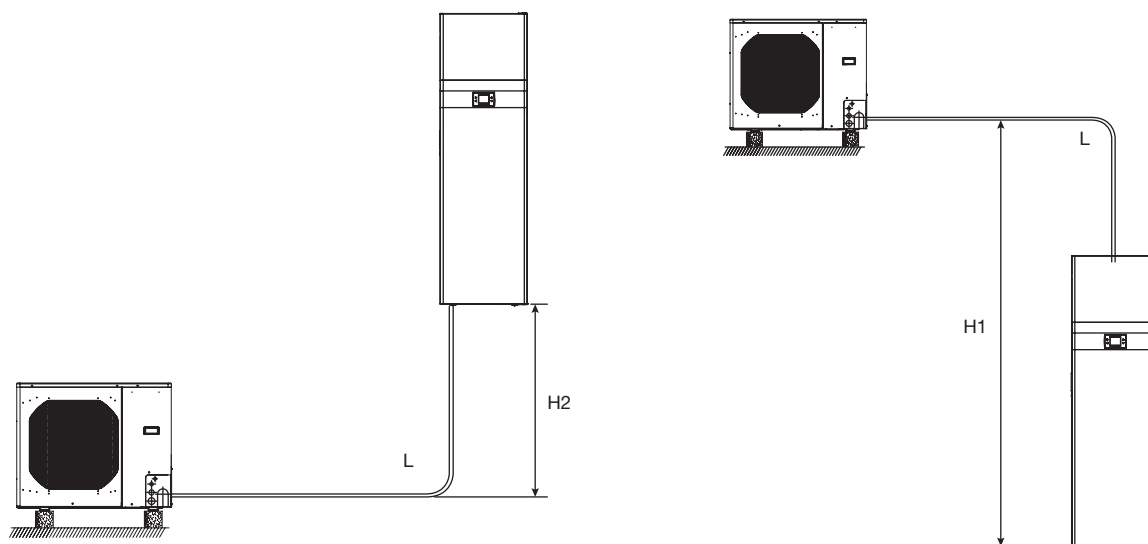
Length of 3/8'' and 5/8'' connection pipes without topping up gas charge		m	2 - 30
Top-up R410A charge required for lines between 30 and 50m in length		g/m	40
Maximum length allowed	L	m	50
Maximum difference in elevation between the 2 units when the outdoor unit is positioned higher	H1	m	30
Maximum difference in elevation between the 2 units when the outdoor unit is at a lower position	H2	m	15

No traps are required in the refrigerant lines as the compressors of the external units are equipped with oil separators.

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

Indoor unit dimensions
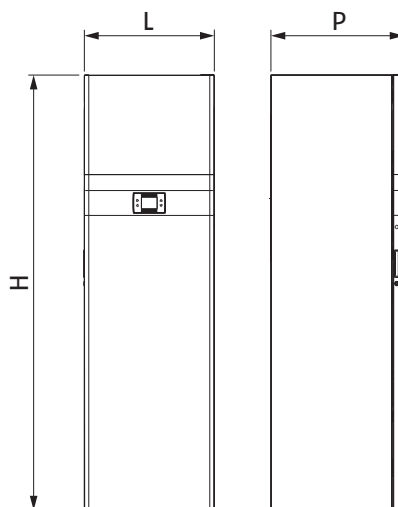
TOWER GREEN FE MODELS	U.O.M	5M	7M	9M	12M	15M	12T	15T
OVERALL DIMENSIONS								
H	mm	2.020	2.020	2.020	2.020	2.020	2.020	2.020
L	mm	600	600	600	600	600	600	600
P	mm	600	600	600	600	600	600	600
WEIGHT								
Net weight	kg	179	179	179	179	179	179	179
Running weight	kg	407	407	407	407	407	407	407

Outdoor unit dimensions
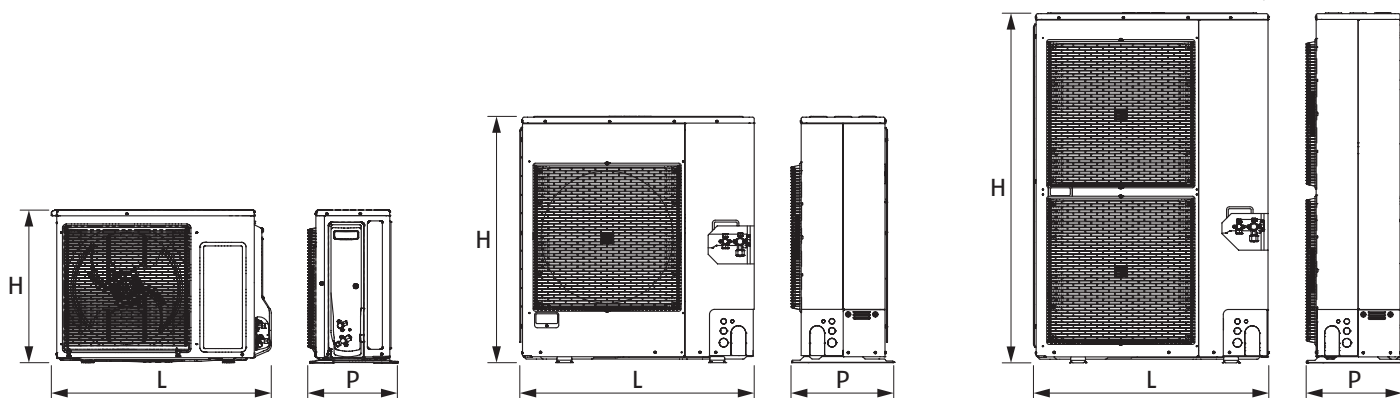
Models 5M and 7M **Model 9M** **Models 12M/T, 15M/T**

TOWER GREEN FE MODELS	U.O.M	5M	7M	9M	12M	15M	12T	15T
OVERALL DIMENSIONS								
H	mm	619	619	996	1.416	1.416	1.416	1.416
L	mm	799	799	940	940	940	940	940
P	mm	355	355	381	381	381	381	381
WEIGHT								
Net weight	kg	39	40	69	98	98	98	98

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

Technical data

DESCRIPTION	U.O.M.	5M	7M	9M	12M	15M	12T	15T
HEATING PERFORMANCE (A7°C D.B.; W35°C)								
Nominal thermal power	kW	4.8	7.1	8.1	12.8	14.6	12.8	14.6
COP (BT)		4.11	4.33	4.53	4.44	4.58	4.44	4.58
ηs (LT)	%	161	155	177	179	179	179	179
HEATING PERFORMANCE (A7°C D.B.; W45°C)								
Thermal power output (MT)	kW	4.5	6.7	7.6	12.0	13.7	12.0	13.7
COP (MT)		2.96	3.13	3.46	3.37	3.40	3.37	3.40
HEATING PERFORMANCE (A7°C D.B.; W55°C)								
Thermal power	kW	4.2	6.2	7.1	11.1	12.7	11.1	12.7
COP		2.10	2.21	2.45	2.39	2.41	2.39	2.41
ηs	%	134	125	138	137	132	137	132
COOLING PERFORMANCE (A35°C; W18°C)								
Nominal cooling power	kW	5.1	7.4	8.7	12.3	15.6	12.3	15.6
EER		3.43	4.02	4.21	4.09	4.00	4.09	4.00
COOLING PERFORMANCE (A35°C; W7°C)								
Cooling power	kW	3.5	5.3	6.3	8.9	11.2	8.9	11.2
EER		2.48	3.03	3.18	3.22	3.20	3.22	3.20
PERFORMANCE IN DOMESTIC WATER MODE (WATER DRAWN AT 40°C AT 10L/MIN, INLET WATER AT 10°C, TANK AT 53°C)								
Maximum volume of usable hot water	l	100	105	110	135	145	135	145
Reset time	min	29	24	15	11	9	11	9
Domestic water drawing profile		L	L	L	XL	XL	XL	XL
Energy efficiency class (domestic water)		A	A	A	A	A	A	A
HYDRAULIC DATA								
Minimum water content in the system	l	20	30	40	50	65	50	65
Nominal output (A7; W35)	l/min	13.7	20.4	23.2	36.6	41.9	36.6	41.9
Maximum allowable temperature on system side	°C	65	65	65	65	65	65	65
Maximum allowable temperature in DHW buffer tank	°C	80	80	80	80	80	80	80
DHW buffer tank volume	l	200	200	200	200	200	200	200
NOISE LEVEL DATA								
Internal unit: sound pressure @1m	dB(A)	30	30	30	31	31	31	31
External unit: sound pressure @1m HEATING	dB(A)	50	50	50	52	53	52	53
External unit: sound pressure @1m COOLING	dB(A)	48	48	48	52	53	52	53
ELECTRICAL DATA								
Power supply voltage	V/ph/Hz	230/1/50					400/3+N/50	

Operating limits

Heating mode

Outside air temperature °C (y-axis) vs Outlet water temperature °C (x-axis)

Work area allowed through resistance, boiler or solar integration

Cooling mode

Outside air temperature °C (y-axis) vs Outlet water temperature °C (x-axis)

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS
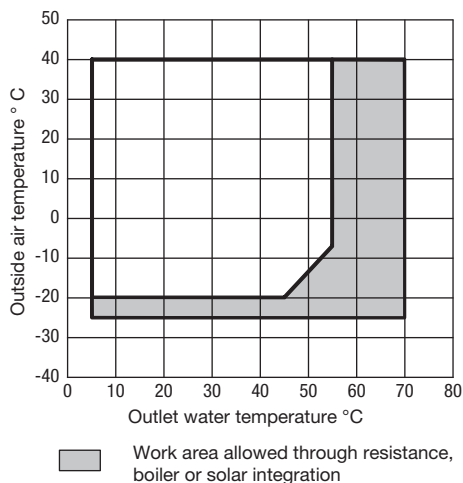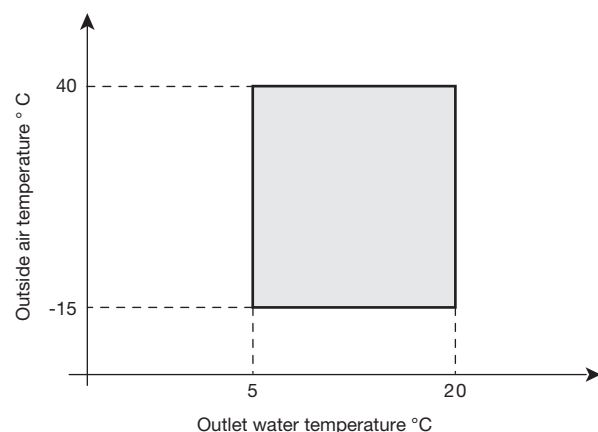
SYSTEM COMPLEMENTARY ITEMS

STAND ALONE SYSTEM DIAGRAM

Key:

A	Domestic hot water users		**08**	Thermometer
B	Radiant system		**09**	Automatic bleeder valve
C	Fan coil system		**10**	Shut-off valve
D	High temperature users (design radiators)		**11**	Pressure gauge
01	Water pipelines		**12**	Thermostat
02	6-bar safety valve		**13**	Non-return valve
03	Cold water line filter		**14**	Y filter
04	5 L expansion reservoir		**15**	Tower Green FE indoor unit
05	Cold water collector		**16**	Tower Green FE outdoor unit
06	Polyphosphate dispenser		**17**	External air probe
07	Automatic filling unit with disconnector			

TOWER GREEN FE - FLOOR-STANDING SPLIT HEAT PUMPS

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG BOILERS
FLOOR STANDING BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

SYSTEM DIAGRAM WITH BOILER

Key:

A Domestic hot water users
B Radiant system
C Fan coil system
D High temperature users (design radiators)
01 Water pipelines
02 6-bar safety valve
03 Cold water line filter
04 5 L expansion reservoir
05 Cold water collector
06 Polyphosphate dispenser
07 Automatic filling unit with disconnector

08 System expansion reservoir
09 Automatic bleeder valve
10 Shut-off valve
11 Pressure gauge and thermometer
12 Thermostat
13 Non-return valve
14 Y filter
15 Tower Green FE indoor unit
16 Tower Green FE outdoor unit
17 External air probe
18 Boiler

- Hydronic air-water heat pump
- Modbus connectivity as standard
- **Variable speed circulating pump as standard**
- Source side exchanger with hydrophilic treatment as standard
- Free-defrost defrosting to optimise seasonal efficiency and environmental comfort
- Suitable for heating, cooling and domestic hot water production
- Rotary compressor with DC-Inverter technology
- Operating range -20°C/+46°C
- Maximum heating temperature 60°C
- Possibility of domestic hot water production by means of external 3-way valve
- Electronic expansion valve
- Expansion reservoir as standard
- Very low noise
- Refrigerant R410A
- Remote control not included, to be ordered separately

Single-phase heat pumps

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20161618	HYDRONIC UNIT B HE 5	821 x 908 x 326	5.10 / 4.85	A++	A+++
20161619	HYDRONIC UNIT B HE 7	821 x 908 x 326	7.15 / 8.00	A++	A+++
20161620	HYDRONIC UNIT B HE 11	810 x 908 x 326	11.25 / 13.70	A++	A++
20161621	HYDRONIC UNIT B HE 15	1.363 x 908 x 326	15.10 / 16.00	A++	A++

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C; (2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
Models suitable for stand-alone installation (with control to be ordered separately or with management through dry contacts) and for full electric systems in combination with REC10CH control, for hybrid systems (see the dedicated section)

Three-phase heat pumps

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20161622	HYDRONIC UNIT B HE 11T	1.363 x 908 x 326	11.20 / 13.75	A++	A++
20161623	HYDRONIC UNIT B HE 15T	1.363 x 908 x 326	15.00 / 17.00	A++	A++

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C; (2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
Models suitable for stand-alone installation (with control to be ordered separately or with management through dry contacts) and for full electric systems in combination with REC10CH control, for hybrid systems (see the dedicated section)

■ >> NEW 02/2021

Accessories

CODE	DESCRIPTION
20181192	REC10CH remote control
20171898	Remote control HP<15 kW (WUI) [1]
4383504	Solar heat exchanger 0.8 m^2 for 300 HP [2]
4383505	Solar heat exchanger 1.2 m^2 for 500 HP [2]
20168920	1" DHW diverting valve with heater probe [3] [4] [5]
20117745	Heater IDRA HP 300
20117746	Heater IDRA HP 500
20182272	Single-phase electric heating element for DHW heater 2.2 kW [3] [6] [7]
20182292	1PH-3PH 2-6 kW supplemental electric heating element [3] [6]
20117745	Heater IDRA HP 300 for heat pump (class C)
20117746	Heater IDRA HP 500 for heat pump (class C)
20028567	External air probe
20171999	50 litre inertial buffer tank
20142300	100 litre inertial buffer tank
20171891	Heat pump vibration damper kit
20175281	1" Y water filter
4383270	1.5 kW 1" 1/2 single-phase heating element kit [2] [1]
20020707	3.8 kW 1" 1/2 three-phase heating element kit [2] [1]

(1) For stand-alone installation
(2) The accessory must be ordered together with the base unit and is supplied not installed with finished product availability
(3) Only in combination with REC10CH remote control
(4) Mandatory in case of domestic water heater installation
(5) Includes 1 temperature probe for heater
(6) Includes electrical power box and activation relay
(7) The kit includes the three-way diverting valve for DHW with heater probe

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Technical drawings

HYDRONIC UNIT B HE 5
HYDRONIC UNIT B HE 7

HYDRONIC UNIT B HE 11
HYDRONIC UNIT B HE 15
HYDRONIC UNIT B HE 11T
HYDRONIC UNIT B HE 15T

A Unit water inlet
B Unit water outlet
C Condensate drain

HYDRONIC UNIT B HE - HYDRONIC HEAT PUMPS

Beretta

Model		HYDRONIC UNIT B HE 5	HYDRONIC UNIT B HE 7	HYDRONIC UNIT B HE 11	HYDRONIC UNIT B HE 15	HYDRONIC UNIT B HE 11T	HYDRONIC UNIT B HE 15T
HEATING PERFORMANCE							
Nominal capacity [1]	kW	5.10	7.15	11.25	15.10	11.20	15.00
COP [1]		4.40	4.10	4.70	4.25	4.60	4.35
Absorbed power [1]	kW	1.16	1.74	2.39	3.55	2.43	3.45
SCOP [2]		4.73	4.68	4.39	4.41	4.26	4.35
ηs [2]	%	186	184	173	173	167	171
Nominal capacity [3]	kW	4.85	6.80	11.30	13.40	10.40	13.50
COP [3]		3.4	3.2	3.6	3.4	3.6	3.5
Absorbed power [3]	kW	1.43	2.13	3.14	3.94	2.89	3.86
Nominal capacity [4]	kW	4.45	6.75	11.20	11.65	10.25	11.80
COP [4]		2.8	2.7	2.95	2.9	3.0	3.0
Absorbed power [4]	kW	1.59	2.50	3.80	4.02	3.42	3.93
SCOP [5]		3.32	3.36	3.35	3.45	3.34	3.40
ηs [5]	%	130	131	131	135	131	133
P rated [5]	kW	3.49	4.32	8.69	10.3	8.69	11.09
Energy class [5] (temperate zone)		A++	A++	A++	A++	A++	A++
COOLING PERFORMANCE							
Nominal capacity [6]	kW	4.85	8.00	13.70	16.00	13.75	17.00
EER [6]		4.35	4.00	4.60	4.10	4.65	4.15
Absorbed power [6]	kW	1.11	2.00	2.98	3.90	2.96	4.10
Nominal capacity [7]	kW	4.00	5.55	11.20	12.80	10.65	13.00
EER [7]		3.1	3.1	3.4	3.1	3.4	3.2
Absorbed power [7]	kW	1.29	1.79	3.29	4.13	3.13	4.06
SEER [8]		4.85	5.75	5.15	5.00	5.40	5.25
ηc [8]	%	191	227	203	197	212	208
GENERAL							
Electrical power supply	V/ph/Hz	230/1+N/50	230/1+N/50	230/1+N/50	230/1+N/50	400/3+N/50	400/3+N/50
Sound pressure @10m		33	34	37	38	38	38
Sound power	dB(A)	64	65	68	69	69	69
Rotary		DC inverter compressor					
Minimum capacity step	%	23	20	20	17	20	17
Refrigerant charge R410A - GWP 2088	Kg	1.10	1.60	2.80	2.80	3.00	3.00
Empty weight	Kg	57	69	115	115	121	121
HYDRAULIC CIRCUIT							
Expansion reservoir capacity	litres	2	2	3	3	3	3
Minimum operating pressure	Bar	3	3	3	3	3	3
Water connection diameter	GAS BSP	1"	1"	1"	1"	1"	1"

(1) outdoor air d.b. + 7 °C / w.b. + 6°C, water 30°C - 35°C
(2) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013
(3) outdoor air d.b. + 7 °C / w.b. + 6°C, water 40°C - 45°C
(4) outdoor air d.b. + 7 °C / w.b. + 6°C, water 47°C - 55°C
(5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
(6) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
(7) outdoor air d.b. + 35 °C/w.b. + 24 °C, water 12°C - 7°C
(8) Value referred to the Average climate profile for delivery temperature of 7 °C. Values in accordance with Regulation 2281/2016

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HYDRONIC UNIT LE - HYDRONIC HEAT PUMPS

Beretta

- Hydronic air-water heat pump
- **Low-consumption circulating pump as standard**
- Suitable for heating, cooling and domestic hot water production
- Twin-Rotary compressor with DC-Inverter technology (4 kW Rotary)
- Operating range -20°C/+46°C
- Maximum heating temperature 60°C
- Possibility of domestic hot water production through 3-way external valve
- Electronic expansion valve
- Expansion reservoir as standard
- Very low noise
- Refrigerant R410A
- Remote control not included, to be ordered separately

Single-phase heat pumps

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20171928	HYDRONIC UNIT LE 4	821 x 908 x 326	4.07 / 4.93	A^{++}	A^{+}
20171933	HYDRONIC UNIT LE 6	821 x 908 x 326	5.76 / 7.04	A^{++}	A^{+}
20171936	HYDRONIC UNIT LE 8	821 x 908 x 326	7.16 / 7.84	A^{+}	A
20171938	HYDRONIC UNIT LE 12	1.363 x 908 x 326	11.86 / 13.54	A^{+}	A^{+}
20171941	HYDRONIC UNIT LE 15	1.363 x 908 x 326	14.46 / 16.04	A^{++}	A^{+}

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C; (2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE heat pumps
For domestic water management we recommend a 230 Vac diverting valve with spring return or, as an alternative, if a phase-phase diverting valve is used, an changeover relay is required
Models for stand-alone applications only, not suitable for Tower Green Hybrid, Hybrid Box and Hybrid System

Three-phase heat pumps

CODE	MODEL	DIMENSIONS H X L X D (mm)	HEAT.[1]/COOL.[2] OUTPUT (kW)	CLASS 55°C	CLASS 35°C
20171942	HYDRONIC UNIT LE 12T	1.363 x 908 x 326	12.00 / 13.50	A^{++}	A^{+}
20171943	HYDRONIC UNIT LE 15T	1.363 x 908 x 326	15.00 / 16.00	A^{++}	A^{+}

(1) outdoor air d.b. + 7 °C / w.b. + 6 °C, water 30°C - 35°C; (2) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C
FREE start-up for Hydronic Unit LE heat pumps
For domestic water management we recommend a 230 Vac diverting valve with spring return or, as an alternative, if a phase-phase diverting valve is used, an changeover relay is required
Models for stand-alone applications only, not suitable for Tower Green Hybrid, Hybrid Box and Hybrid System

HYDRONIC UNIT LE - HYDRONIC HEAT PUMPS

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Accessories

CODE	DESCRIPTION
20171895	Remote control HP<15kW (SUI) [4] [5]
20171897	Remote control HP<15kW (NUI) [4]
20028567	External probe kit
20171891	Heat pump vibration damper kit
20175281	1" Y water filter
20171999	STOR H 50 - 50-litre inertial buffer tank [6]
20142300	STOR H 100 - 100-litre technical hot/cold tank kit [6] [7]
20056180	STOR H 200 inertial buffer tank (class C)
20117745	Heater IDRA HP 300 for heat pump (class C)
20117746	Heater IDRA HP 500 for heat pump (class C)
4383504	Solar heat exchanger for IDRA HP 300
4383505	Solar heat exchanger for IDRA HP 500
20116276	TIVANO 23 fan coil
20116277	TIVANO 45 fan coil
20116278	TIVANO 64 fan coil
20116279	TIVANO 76 fan coil
20116280	TIVANO 94 fan coil
20116281	TIVANO R 23 fan coil (radiant)
20116282	TIVANO R 45 fan coil (radiant)
20116284	TIVANO R 64 fan coil (radiant)
20116285	TIVANO R 76 fan coil (radiant)
20116288	TIVANO R 94 fan coil (radiant)
20116481	REMOTE ALPHA TIVANO - Interface board for three-speed external thermostats
20116484	ALPHA TIVANO 20 IN - Thermostat on fan coil with speed switch

For the use of TIVANO and TIVANO R FAN COILS, it is mandatory to use code 20116484 ALPHA TIVANO 20 IN or code 20116481 REMOTE ALPHA TIVANO.
For further information, see the specific product section in the system accessories
(4) The SUI and NUI controls can be used simultaneously
(5) Available from February 2021, for use in combination with BeSmart thermostat
(6) Provide at least 3.5 litres per kW of Hydronic Unit heat pump cooling output
(7) Code with limited availability

Technical drawings

HYDRONIC UNIT 4
HYDRONIC UNIT 6
HYDRONIC UNIT 8
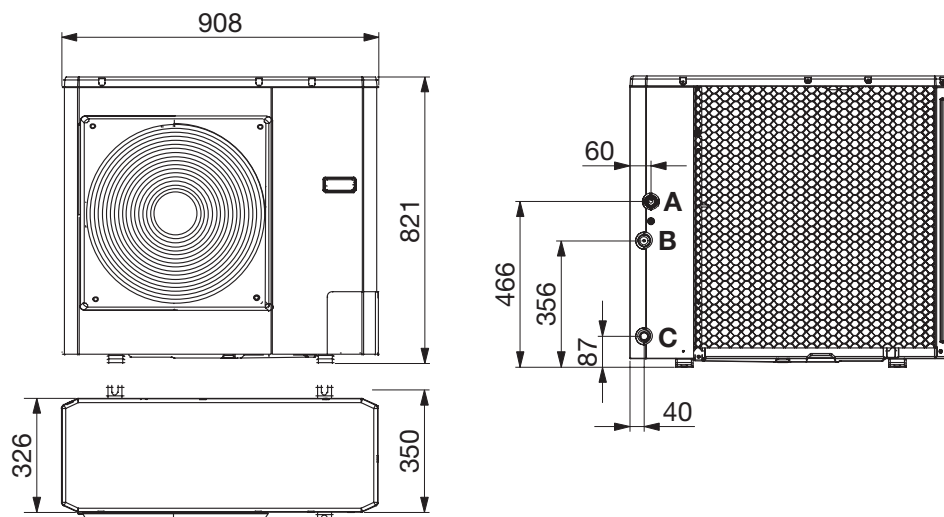
HYDRONIC UNIT 12
HYDRONIC UNIT 15
HYDRONIC UNIT 12T
HYDRONIC UNIT 15T
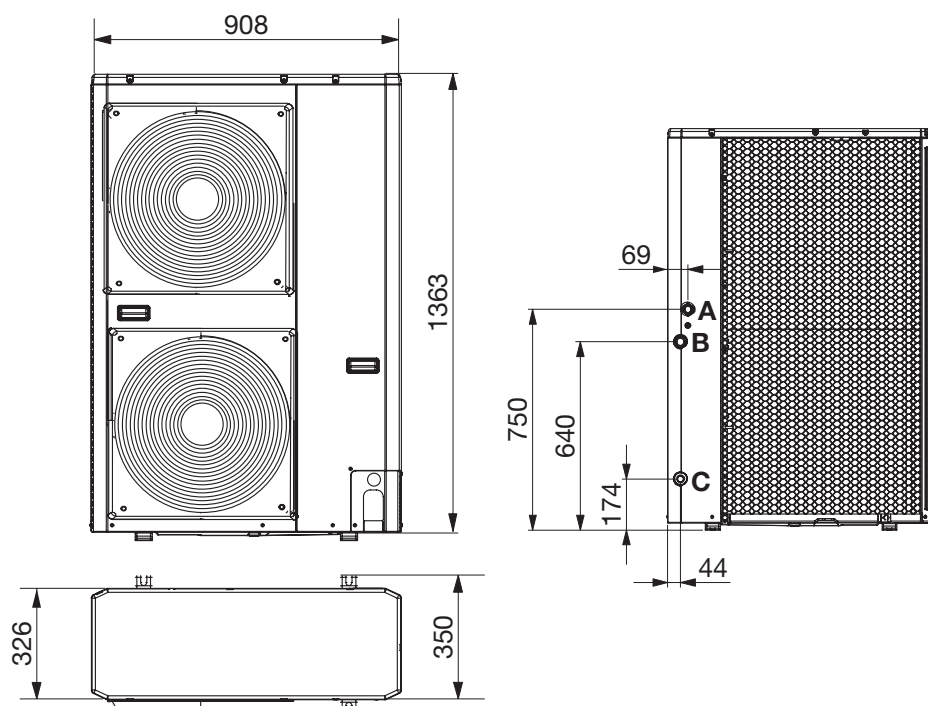
A Unit water inlet
B Unit water outlet
C Condensate drain

HYDRONIC UNIT LE - HYDRONIC HEAT PUMPS

Beretta

Model		HYDRONIC UNIT LE 4	HYDRONIC UNIT LE 6	HYDRONIC UNIT LE 8	HYDRONIC UNIT LE 12	HYDRONIC UNIT LE 15	HYDRONIC UNIT LE 12T	HYDRONIC UNIT LE 15T
HEATING PERFORMANCE								
Nominal capacity [1]	kW	4.07	5.76	7.16	11.86	14.46	12.00	15.00
COP [1]		4.15	4.28	3.97	3.95	4.09	4.3	4.2
Absorbed power [1]	kW	0.98	1.35	1.80	3.00	3.54	2.79	3.57
Nominal capacity [2]	kW	3.87	5.76	7.36	12.91	13.96	11.20	14.50
COP [2]		3.26	3.05	3.19	3.03	3.23	3.35	3.30
Absorbed power [2]	kW	1.19	1.89	2.31	4.26	4.32	3.34	4.39
Nominal capacity [3]	kW	4.27	5.43	7.25	10.89	12.36	11.43	12.17
COP [3]		2.92	2.77	2.81	2.68	3.02	3.12	2.98
Absorbed power [3]	kW	1.46	1.95	2.58	4.05	4.09	3.66	4.08
Seasonal COP [3]		3.53	3.37	2.84	2.95	3.25	3.47	3.33
Energy class [3] (temperate zone)		A++	A++	A+	A+	A++	A++	A++
COOLING PERFORMANCE								
Nominal capacity [6]	kW	3.33	4.73	5.84	10.24	13.04	10.20	13.00
Absorbed power [6]	kW	1.10	1.58	1.96	3.46	4.42	3.40	4.47
EER [6]		3.02	3.00	2.98	2.96	2.95	3.00	2.91
Nominal capacity [7]	kW	4.93	7.04	7.84	13.54	16.04	13.50	16.00
Absorbed power [7]	kW	1.17	1.90	1.96	3.70	4.17	3.25	4.20
EER [7]		4.20	3.70	3.99	3.66	3.85	4.15	3.81
ESEER		4.36	4.51	4.15	4.22	4.31	4.4	4.31
GENERAL								
Maximum electrical absorption of circulating pumps	W	75	75	75	140	140	140	140
Sound power [3]	dB(A)	62	62	64	67	68	68	68
Compressor		Rotary	Twin Rotary DC Inverter Technology					
Refrigerant charge R410a	kg	1,195	1.35	1.81	2.45	3.39	3,385	3.39
Empty weight	kg	57	61	69	104	112	116	116
HYDRAULIC CIRCUIT								
Expansion reservoir capacity	l	2	2	2	3	3	3	3
Expansion reservoir pre-charge	kPa	100	100	100	100	100	100	100
Minimum system water content	l	14	21	28	42	49	42	49
Maximum system water content	l	65	65	65	95	95	95	95
Machine water content	l	0.8	0.8	1.0	2.3	2.3	2.3	2.3
Minimum operating pressure	kPa	300	300	300	300	300	300	300
Minimum filling pressure	kPa	120	120	120	120	120	120	120
Water connection diameter	Inches	1M	1M	1M	1M	1M	1M	1M

(1) outdoor air d.b. + 7 °C / w.b. + 6°C, water 30°C - 35°C
(2) outdoor air d.b. + 7 °C / w.b. + 6°C, water 40°C - 45°C
(3) outdoor air d.b. + 7 °C / w.b. + 6°C, water 47°C - 55°C
(6) outdoor air d.b. + 35 °C/w.b. + 24 °C, water 12°C - 7°C
(7) outdoor air d.b. + 35 °C/w.b. + 24°C, water 23°C - 18°C

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WALL HUNG BOILERS »

Beretta

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ErP		PRODUCT ENERGY CLASS	SYSTEM ENERGY CLASS	COMBI MODELS
with INSTANTANEOUS DHW PRODUCTION	MySMART	A / A XL	A⁺ SYSTEM	28 (NG)
	EXCLUSIVE C/R	A / A XL	A⁺ SYSTEM	25, 30, 35, 42 (NG/LPG)
	MYNUTE X	A / A XL		25, 30, 35, 40 (NG/LPG)
	MYNUTE GREEN E	A / A XL	A⁺ SYSTEM with optional kit (1)	25, 30 (NG)
	CIAO GREEN	A / A XL	A⁺ SYSTEM with optional kit (2)	25 (NG - LPG) 29 (NG)
	QUADRA GREEN	A / A XL	A⁺ SYSTEM with optional kit (3)	25 (NG) 30 (NG)
	CIAO AT (4)	B / A XL		25 (NG) 29 (NG)*
with BUILT-IN DHW TANK	EXCLUSIVE BOILER GREEN HE	A / A XL		25 (NG) 35 (NG)
	MYNUTE BOILER GREEN	A / A XL		25 (NG) 32 (NG)

(*) Model available until stock lasts.
(1) In combination with BeSMART Control (codes 20143539 or 20143659) Exclusive Green E range (except for 35kW models) and Mynute GREEN E range achieve A+ system.
(2) Ciao Green boiler range, in case of multizone systems with at least 3 zones, achieves A+ class system if combined with 3 pcs. of BeSMART Control (codes 20143539 or 20143659).

Condensing wall-hung

'HEATING-ONLY' MODELS	COMBUSTION	DHW PRODUCTION	BeSMART WIFI	MODULATION RANGE	CIRCULATOR HEAD
20 (NG)	premix	via stainless steel DHW heat-exchanger	compatible (included as standard)	up to 10 : 1	modulating, with 6m head, adjustable up to 7m
25, 35, 42 (NG/LPG)	premix	via stainless steel DHW heat-exchanger	compatible (as option)	up to 7 : 1	modulating, with 6m head, adjustable up to 7m
20, 30, 40 (NG/LPG)	premix	via stainless steel DHW heat-exchanger	compatible (as option)	up to 8 : 1	modulating, with 6m head, adjustable up to 7m
20, 30 (NG)	premix	via stainless steel DHW heat-exchanger	compatible (as option)	up to 5 : 1	modulating, with 6m head, adjustable up to 7m
25 (NG - LPG)	premix	via stainless steel DHW heat-exchanger	compatible (as option)	up to 5 : 1	6m
25 (NG)	premix	via stainless steel DHW heat-exchanger	compatible (as option)	up to 5 : 1	6m
–	with post heat-exchanger	via stainless steel DHW heat-exchanger	compatible (as option)	up to 3 : 1	Synchronous, single speed 6m
–	premix	via stainless steel DHW tank (60 litres capacity)	compatible (as option)	up to 10 : 1	modulating, with 6m head, adjustable up to 7m
–	premix	via stainless steel DHW tank (45/60 litres capacity)	compatible (as option)	up to 5 : 1	modulating, with 6m head, adjustable up to 7m

(3) Quadra Green boiler range, in case of multizone systems with at least 3 zones, achieves A+ class system if combined with 3 pcs. of BeSMART Control (codes 20143539 or 20143659).
(4) This boiler range, being provided with post heat-exchanger, is specifically suitable for high temperature circuits (with radiators, etc.)
(5) Built-in circulator only on 50P DEP, 50P, 65P and 80P models.

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HEAD CURVES OF STANDARD AND HIGH HEAD CIRCULATING PUMPS

MySMART

Head 6 meters (factory setting)

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — maximum / minimum

Head 7 meters

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — maximum / minimum

EXCLUSIVE C/R (*)

Head 6 meters (factory setting)

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — maximum / minimum

Head 7 meters

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — maximum / minimum

MYNUTE X

Head 6 meters

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — massima / minima

Head 7 meters (optional)

Residual head (mbar) / System flow rate (l/h)
PWM pump modulation area — massima / minima

(*) According to the project requirements, it is possible to set curves with 4-5-7 m head.
Beretta reserves the right to change the data without prior notice. In order to have always updated data, it is possible to consult the documentation available on the corporate website.

HYBRID SYSTEMS

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Beretta

HEAD CURVES OF STANDARD AND HIGH HEAD CIRCULATING PUMPS

CIAO GREEN / QUADRA GREEN

Circulator curve 6 meters standard
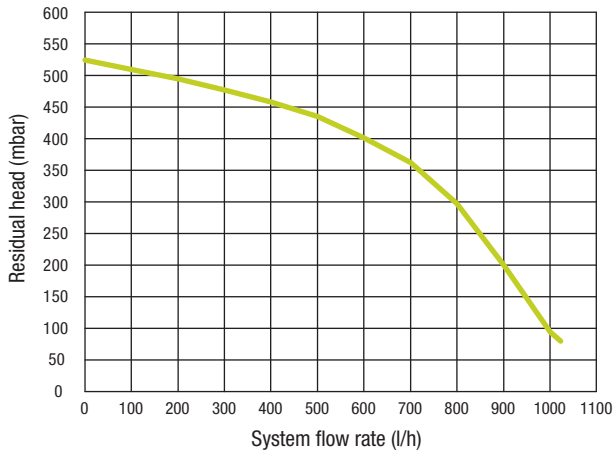
High head curve 7 meters (optional)
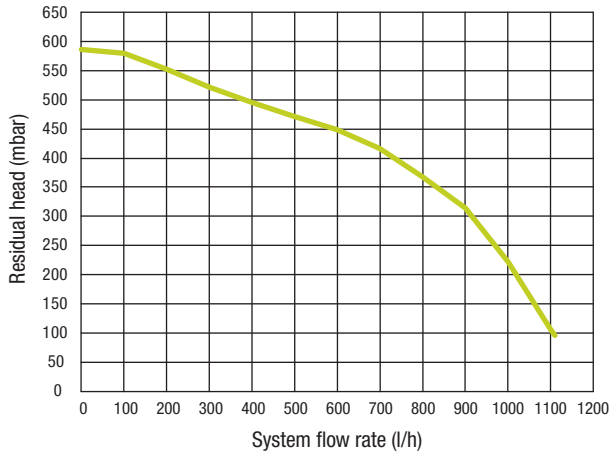
CIAO AT

Circulator curve 6 meters standard
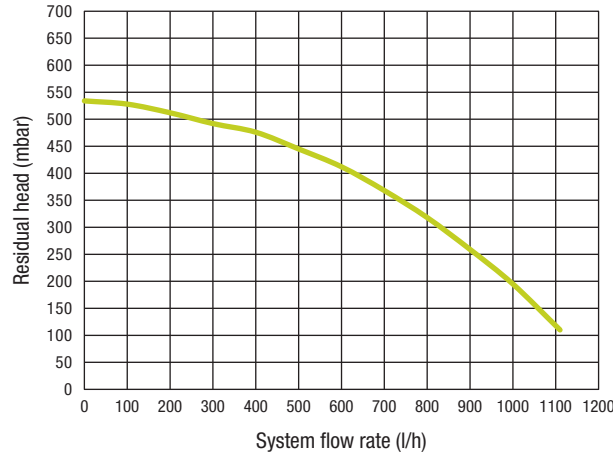
High head curve 7 meters (optional)
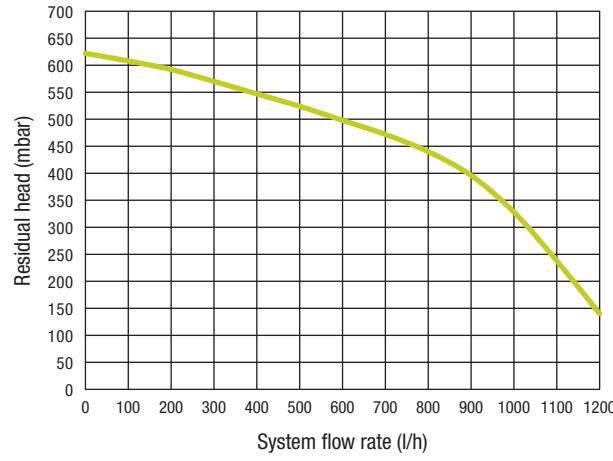
MYNUTE BOILER GREEN E (*)

Head 6 meters
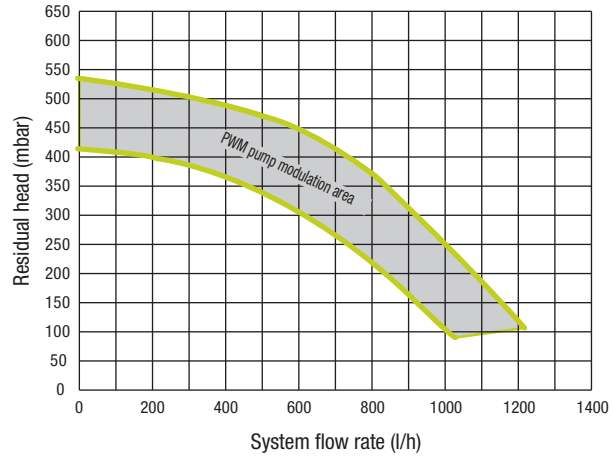
Head 7 meters (optional)
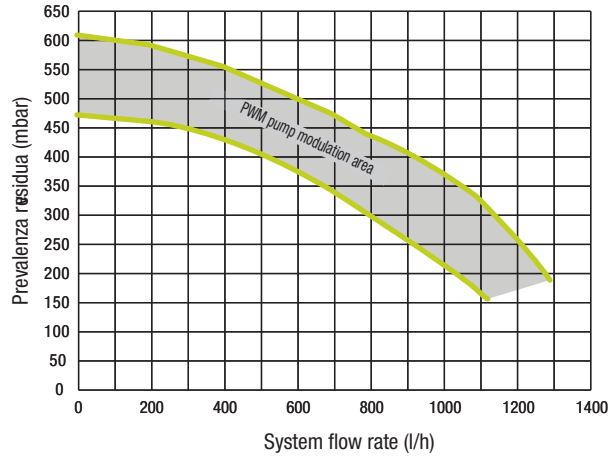
(*) According to the project requirements, it is possible to set curves with 4-5-7 m head.
Beretta reserves the right to change the data without prior notice. In order to have always updated data, it is possible to consult the documentation available on the corporate website.

A+ SYSTEM

Ø50-Ø60 INSIDE CHIMNEY

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating	Gas	Domestic water
R F	G	O I
65 120	60	55
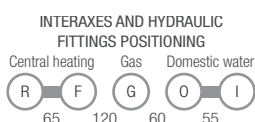
BeSMART

- **MySMART, standard equipped with BeSMART WiFi Control kit, achieves an A+ class system (without additional optionals).**
- **Free of charge App to download to smartphone or tablet for the boiler control and home comfort management, from anywhere you are.**
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing exstensive TOP advantages.**
- 10:1 modulation ratio, the highest range of modulation.
- **New condensing aluminium heat-exchanger with high flow rate and front access, assisting in simple maintenance.**
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- **Low Energy modulating circulator (EEI ≤ 0,20) with 6m head, adjustable up to 7m.**
- Thermoregulation as standard.
- **Possibility of inside-chimney installation via specific flue options in PP** Ø80 (up to 140m), Ø60 (up to 26m) and Ø50 (up to 7m).
- Ø80mm twin system kit supplied as standard.
- Hydraulic cover supplied as standard.
- Supplied as standard: installation template with brackets, heating taps with filter, hydraulic connections in brass, gas and DHW taps.
- Can be converted to LPG through LPG kit (available as option).

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20109808	NG	MySMART 28 C.S.I.	780 × 400 × 365	2.80 - 20.00 2.80 - 28.00	16.1	A	A
HEATING ONLY BOILERS(**)							
20130770	NG	MySMART 20 R.S.I.	780 × 400 × 365	2.80 - 20.00 2.80 - 28.00	-	A	-

Accessories

CODE	DESCRIPTION
Comfort accessories	
1220559	Outdoor probe with connector
Hydraulic accessories	
20035644	Solar diverter mixing valve
20097192	Condensate pump
Special accessories	
1220639	Limit thermostat for low temperature applications

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Combi and 'heating-only' wall-hung boilers - Hybrid Ready

EXCLUSIVE C/R

Beretta

A+ SYSTEM

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating	Gas	Domestic water
R — F	G	O — I
65 120	60	55
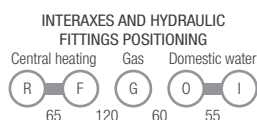
- **Active combustion control via ACC system.**
- **In combination with BeSMART Wi-Fi (as an accessory) Exclusive achieves A+ system.**
- **In combination with the interface remoting kit and the outdoor probe with connector (both available as optional accessories), Exclusive achieves A+ system[*].**
- 94% (ETAs) energy efficiency in CH.
- Flexibility of installation: indoor, outdoor and in-wall application.
- Frost protection kit till -5°C as standard.
- IPX5D electrical protection.
- **Low Energy modulating circulator (EEI≤ 0.20) with 6m residual head, electronically adjustable up to 7m.**
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- Hydraulic connections and outdoor probe available as optional.
- Frost protection as standard.
- **HYBRID READY boiler, that can be integrated in Beretta multi-energy systems via REC 10H, available as an accessory.**
- LPG version selectable through display parameter. **LPG transformation kit not necessary.**

(*) Interface remoting kit (code 20150823) and outdoor probe with connector (code 1220559).

HYBRID READY   **ACC COMBUSTION**

Premix condensing

ErP

CODE	GAS [1]	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	XL
INSTANTANEOUS COMBI BOILERS							
20125265	NG/LPG	EXCLUSIVE 25 C	740 x 420 x 275	3.70 - 18.00 3.70 - 26.00	14.9	A	A
20125266	NG/LPG	EXCLUSIVE 30 C	740 x 420 x 275	4.30 - 24.00 4.30 - 30.00	17.2	A	A
20142749	NG/LPG	EXCLUSIVE 35 C	740 x 420 x 350	5.10 - 32.00 5.10 - 34.60	19.8	A	A
20142206	NG/LPG	EXCLUSIVE 42 C	740 x 420 x 350	6.00 - 35.00 6.00 - 42.00	24.1	A	A
HEATING ONLY BOILERS							
20127972	NG/LPG	EXCLUSIVE 25 R [2]	740 x 420 x 275	3.70 - 18.00 3.70 - 26.00	-	A	-
20142750	NG/LPG	EXCLUSIVE 35 R [2]	740 x 420 x 350	5.10 - 32.00 5.10 - 34.60	-	A	-
20142207	NG/LPG	EXCLUSIVE 42 R [2]	740 x 420 x 350	6.00 - 35.00 6.00 - 42.00	-	A	-

(1) The LPG trasfornation kit is not necessary. Thanks to the new ACC combustion system, the gas commutation is via electronic setting.
(2) The "heating only" models are supplied with a three-ways valve. Filling tap not available.

Specific accessories for IN-BOX installation (*)

CODE	DESCRIPTION	DIMENSIONS H × W × D (mm)
1103289	BOX for recessed IN-BOX installation for the models 25C-25R-30C	1223 x 654 x 255 (+26)(A)

(*) The models EXCLUSIVE 35/42 C and 35/42 R are not suitable for IN-BOX installation using the BOX 1103289. For the models 25 R the specific connections kits are not available.
(A) The front part of the BOX (door) protrudes 26 mm from the recessed BOX.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this

catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Hydraulic accessories	
20132005	Wall-mounted hydraulic connections and gas tap kit for EXCLUSIVE C
20133386	Wall-mounted hydraulic connections and gas tap kit for EXCLUSIVE R
20133516	Wall-mounted hydraulic connections and heating, gas and DHW taps kit for EXCLUSIVE C
20133517	Wall-mounted hydraulic connections, heating and gas taps kit for EXCLUSIVE R
20134477	Connections kit for IN-BOX installation for instantaneous combi versions (C models)
20035644	Solar diverter mixing valve (only C models)
Special accessories	
20062614	Electronic board to control the supplementary pump and remote alarms
20132795	Electronic board to control the first direct/mixed zone (A)
20132796	Electronic board to control the second/third direct/mixed zone (A)(B)
20150823	Interface remoting kit (C)
1220559	Outdoor probe with connector (C)
20134475	Frost protection kit down to -15°C
20066214	Electronic board (to control the main heating zone to be used with remote control or supplementary pump)
20097192	Condensate pump

CODE	DESCRIPTION
1220599	Socket probe for DHW tank - 3m wire (only R.S.I. models)
20134283	Dummy EXCLUSIVE for POS
20147627	REC10 cover kit with reset button
20178780	Kit magnetic filter (compact)
20178781	Kit polyphosphates dispenser
Flues accessories	
20134830	Flue adapter kit from Ø60/100 to Ø80+80 (air inlet swelling position)
20129765	Flue adapter kit from Ø60/100 to Ø80+80
20129175	Ø60/100 Horizontal flue terminal kit with 90° reduced concentric bend (1)
20129176	Ø60/100 Telescopic horizontal flue terminal kit with 90° reduced concentric bend (1)
20129177	Ø60/100 Vertical flue terminal kit with vertical adapter (2)
20129768	Flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) and air inlet
20129769	Vertical flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) for outdoor
20129172	Ø60/100 90° Reduced concentric bend kit
20129174	Ø60/100 Vertical adapter kit

(A) Allowing to manage a mixed zone (pump + motorized mixing valve 230Vac) or a direct zone (only pump). It is not necessary if you purchase CONNECT HYBRID.
(B) The first zone electronic board is always necessary. The boiler can manage up to three zones.

(C) In combination with codes 20150823 and 1220559, EXCLUSIVE achieves A+ system.
(1) It includes code 20129172 "90° Reduced concentric bend kit".
(2) It includes code 20129174 "Ø60/100 Vertical adapter kit".

Combi wall-hung boilers with built-in DHW tank

EXCLUSIVE BOILER GREEN HE

Beretta

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating   Gas   Domestic water

R   F   G   O   RC   I
65   85   108   90   90

he BERETTA HIGH-EFFICIENCY

- **EXCLUSIVE BOILER GREEN HE is Beretta top of the range condensing appliance with built-in tank.**
- **Built-in stainless steel DHW tank (60 litres capacity) with magnesium anode.**
- **Low Energy, A-Class, synchronous pump (EEI ≤ 0.23),** PWM controlled (4 mt on 25 B.S.I. and 6 mt on 35 B.S.I.) with different working options.
- **10 : 1 modulation ratio, the highest range of modulation.**
- The RANGE RATED certification allows to adapt the power of the boiler to the real thermal requests of the installation.
- Lowest electrical consumption (only 66 Watt on 25 B.S.I.).
- 10 lt. expansion vessel.
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- Condensing heat-exchanger in extruded aluminium providing excellent thermal transfer.
- Built-in thermoregulation with external probe supplied as standard.
- IPX5D electrical protection.
- Exclusive BOILER GREEN HE can be converted to LPG through LPG kit supplied as standard.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H×W×D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	
COMBI BOILERS WITH BUILT-IN DHW TANK							
20023094	NG	EXCLUSIVE BOILER GREEN HE 25 B.S.I.	940×600×450	2.50 - 25.00	60	A	A
20031609	NG	EXCLUSIVE BOILER GREEN HE 35 B.S.I.	940×600×450	3.50 - 34.60	60	A	A

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
20164477	OTBus interface board
Hydraulic accessories	
1101989	Heating taps

CODE	DESCRIPTION
Hydraulic accessories	
1101999	Heating taps with filter
20082453	A-Class Low Energy synchronous pump, PWM controlled 7 metres)
1103479	DHW recirculation kit
20097192	Condensate pump
Special accessories	
1220639	Limit thermostat for low temperature applications

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi and 'heating-only' wall-hung boilers - Hybrid Ready

MYNUTE X

Beretta

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating   Gas   Domestic water

R   F   G   O   I
65   120   60   55

HYBRID READY

ACC COMBUSTION

- **New condensing heat-exchanger in stainless steel with frontal access.**
- **Active Combustion Control** via ACC System.
- High modulation (up to 1:8).
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- **Low energy modulating circulator** (EEl ≤ 0.20) electronically adjustable with four management modes.
- **Built-in non retun valve** on flues allowing Mynute X[*] certification as $C_{(10)}$ appliance[**] for sharing chimneys under pressure.
- **HYBRID READY** boiler, that can be integrated in Beretta multi-energy systems via REC 10H, available as an accessory.
- **Flexibility of installation**: indoor, outdoor (in partially protected places) and in-wall application.
- **Click-fit flue connection**: fast and safety.
- Hydraulic connections and outdoor probe available as optional.
- **Frost protection** as standard.
- IPX5D electrical protection.
- LPG operation selectable through display parameter. **LPG transformation kit not necessary**. Thanks to the ACC system, the gas commutation is via electronic setting
- **Can be matched with BeSMART Control working as wifi thermostat in OTBus communication, allowing extensive top advantages.**

(*) All models except for 40C and 40R.
(**) A $C_{(10)}$ appliance means that it is designed to become connected to a common duct system, that is designed to operate under the conditions where the static pressure in the common flue duct might exceed the static pressure in the common air duct.

Premix condensing

ErP

CODE	GAS (1)	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20149446	NG/LPG	MYNUTE X 25 C	740 x 420 x 275	3.60 - 20.00 3.60 - 25.00	15.1	A	A
20149447	NG/LPG	MYNUTE X 30 C	740 x 420 x 350	4.90 - 25.00 4.90 - 30.00	18.1	A	A
20149448	NG/LPG	MYNUTE X 35 C	740 x 420 x 350	4.90 - 30.00 4.90 - 34.60	20.8	A	A
20149449	NG/LPG	MYNUTE X 40 C	740 x 420 x 350	4.90 - 30.00 4.90 - 40.00	24.1	A	A
HEATING ONLY BOILERS							
20149450	NG/LPG	MYNUTE X 20 R (2)	740 x 420 x 275	3.60 - 20.00 3.60 - 20.00	-	A	-
20149451	NG/LPG	MYNUTE X 30 R (2)	740 x 420 x 350	4.90 - 30.00 4.90 - 34.60	-	A	-
20149452	NG/LPG	MYNUTE X 40 R (2)	740 x 420 x 350	4.90 - 30.00 4.90 - 40.00	-	A	-

(1) The LPG trasfornation kit is not necessary. Thanks to the new ACC combustion system, the gas commutation is via electronic setting.
(2) The "heating only" models are supplied with a three-ways valve. Filling tap not available.

Thanks to the built-in non return valve, this model is a $C_{(10)}$ appliance, meaning that it "is designed to become connected to a common duct system that is designed to operate under the conditions where the static pressure in the common flue duct might exceed the static pressure in the common air duct".

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Hydraulic accessories	
20132005	Wall-mounted hydraulic connections and gas tap kit for MYNUTE X (C models)
20133386	Wall-mounted hydraulic connections and gas tap kit for MYNUTE X (R models)
20133516	Wall-mounted hydraulic connections and heating, gas and DHW taps kit for MYNUTE X (C models)
20133517	Wall-mounted hydraulic connections, heating and gas taps kit for MYNUTE X (R models)
20134477	Connections kit for IN-BOX installation for instantaneous combi versions (C models)
20035644	Solar diverter mixing valve (only C models)
Special accessories	
20062614	Electronic board to control the supplementary pump and remote alarms
20132795	Electronic board to control the first direct/mixed zone (A)
20132796	Electronic board to control the second/third direct/mixed zone (A)(B)
1220559	Outdoor probe with connector
20156799	Frost protection kit (for COMBI boilers)
20156800	Frost protection kit (for 'HEATING ONLY' boilers)
20066214	Electronic board (to control the main heating zone to be used with remote control or supplementary pump)

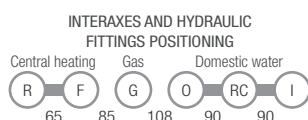| CODE	DESCRIPTION
20097192	Condensate pump
1220599	Socket probe for DHW tank 3m wire (only R.S.I. models)
20152713	Dummy for POS
20178780	Kit magnetic filter (compact)
20178781	Kit polyphosphates dispenser
Flues accessories	
20134830	Flue adapter kit from Ø60/100 to Ø80+80 (air inlet swelling position)
20129765	Flue adapter kit from Ø60/100 to Ø80+80
20129175	Ø60/100 Horizontal flue terminal kit with 90° reduced concentric bend (1)
20129176	Ø60/100 Telescopic horizontal flue terminal kit with 90° reduced concentric bend (1)
20129177	Ø60/100 Vertical flue terminal kit with vertical adapter (2)
20129768	Flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) and air inlet
20129769	Vertical flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) for outdoor
20129172	Ø60/100 90° Reduced concentric bend kit
20129174	Ø60/100 Vertical adapter kit

(A) Allow to manage a mixed zone (pump + motorized mixing valve 230Vac) or a direct zone (only pump). It is not necessary if you purchase CONNECT HYBRID.
(B) The first zone electronic board is always necessary. The boiler can manage up to three zones.

(1) It includes CODE 20129172 "90° Reduced concentric bend kit"
(2) It includes CODE 20129174 "Ø60/100 Vertical adapter kit"

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi and 'heating-only' wall-hung boilers
MYNUTE GREEN E

Beretta

A⁺ SYSTEM

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating	Gas	Domestic water
R — F	G	O — I
65 — 120	60	55

- **Mynute GREEN E, with BeSMART WiFi Control kit (supplied as option), achieves an A+ Class System.**
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- **New, frontal access, condensing heat-exchanger** in extruded aluminium assists in simple maintenance and providing excellent thermal transfer.
- Built-in thermoregulation (with external probe available as option).
- **Modulating pump (EEI ≤ 0.20), with adjustable residual head up to 7 m.**
- Hydraulic cover connections (supplied as option).
- Possibility of inside-chimney installation via specific flue options in PP, Ø60 and Ø50.
- 9lt (8lt for 25 C.S.I. model) expansion vessel.
- Template, hydraulic connections, gas and DHW taps available as standard.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20142424	NG	MYNUTE GREEN E 25 C.S.I.	780 × 400 × 358	6.00 - 20.00 6.00 - 25.00	14.3	A	A
20142425	NG	MYNUTE GREEN E 30 C.S.I.	780 × 450 × 358	6.00 - 25.00 6.00 - 30.00	17.2	A	A
HEATING ONLY BOILERS (*)							
20142208	NG	MYNUTE GREEN E 20 R.S.I.	780 × 400 × 358	2.80 - 20.00 2.80 - 20.00	-	A	-
20142426	NG	MYNUTE GREEN E 30 R.S.I.	780 × 400 × 358	6.00 - 25.00 6.00 - 30.00	-	A	-

(*) The "heating only" models are supplied with a three-ways valve. Filling tap not available.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

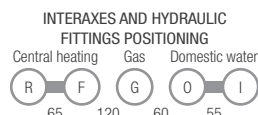| CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
Comfort accessories		20008794	Kit hydraulic connections (for welding)
20059641	ALPHA DGT WIRELESS digital room thermostat	20051979	Kit hydraulic connections (with brass nipples)
20059639	ALPHA DGT digital room thermostat	1220559	Outdoor probe with connector
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat	20035644	Solar diverter mixing valve
20063872	ALPHA 7D 7-day digital room thermostat	1220599	Socket probe for DHW tank - 3 m wire (only R.S.I. models)
Hydraulic accessories		20097192	Condensate pump
1101989	Heating taps	**Special accessories**	
1101999	Heating taps with filter	1220639	Limit thermostat for low temperature applications
1101979	High head pump (6 metres) - only model 12 kW - **for non-ErP boilers**	20051629	Lower cover
1102009	Ultra high head pump (7 metres) - **for non-ErP boilers**	20087710	Dummy for POS

MYNUTE BOILER GREEN

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating		Gas	Domestic water		
R	F	G	O	RC	I
65	85	108	90	90	

- **Built-in stainless steel DHW tank with magnesium anode** (capacity: 45 lt. on 25 B.S.I. E; 60 lt. on 35 B.S.I. E)
- **On ErP boilers: Low Energy, A-Class, synchronous pump EEI ≤ 0.20** (6 metres residual head adjustable from 4 metres to 7 metres).
- 10 : 1 modulation ratio on the new model 35 B.S.I. E
- The RANGE RATED certification allows to adapt the power of the boiler to the real thermal requests of the installation.
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- Condensing heat-exchanger in extruded aluminium providing excellent thermal transfer.
- Built-in thermoregulation (with external probe available as option).
- Ideal for low-temperature installations.
- IPX5D electrical protection.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20142451	NG	MYNUTE BOILER GREEN 25 B.S.I. E	940 × 600 × 450	6.00 - 25.00 6.00 - 25.00	45	A	A
20142457	NG	MYNUTE BOILER GREEN 35 B.S.I. E	940 × 600 × 450	3.50 - 34.60 3.50 - 34.60	60	A	A

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT **(1)**

CODE	DESCRIPTION
20143659	BeSMART CONTROL **(2)**

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

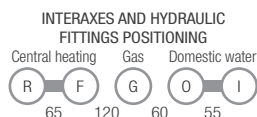**(1)** Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7- day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps

CODE	DESCRIPTION
1101999	Heating taps with filter
1102009	Ultra high head pump (7 metres) - for non-ErP boilers
1103479	DHW recirculation kit
20097192	Condensate pump
20085814	Hydraulic connection kit and gas/DHW taps
Special accessories	
1220639	Limit thermostat for low temperature applications

CIAO GREEN

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating	Gas	Domestic water
R F	G	O I
65 120	60	55

- **On ErP boilers: Low Energy, A-Class, synchronous pump EEI ≤ 0.20 (6 metres).**
- **System energy class A+ in combination with BeSMART, in installation with at least 3 zones.**
- **A cost-conscious condensing boiler with compact dimensions and low lift weight, enabling a flexible installation anywhere in the home.**
- 5 : 1 modulation ratio.
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- The RANGE RATED certification allows to adapt the power of the boiler to the real thermal requests of the installation.
- Stylish and easy-to-use control panel with a digital display signalling the boiler working status and the self-diagnostic.
- **The model 25 C.S.I. Erp (both as NG and LPG version) becomes a C(10) appliance(*) with a specific non return valve kit, available as option.**
- CIAO GREEN can be converted to LPG through specific LPG kit (as option).
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

(*) "**A C(10) appliance** is designed to become connected to a common duct system that is designed to operate under the conditions where the static pressure in the common flue duct might exceed the static pressure in the common air duct".

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20095434	NG	CIAO GREEN 25 C.S.I.	715 × 405 × 250	5.00 - 20.00 5.00 - 25.00	14.3	A	A
20095437	LPG	CIAO GREEN 25 C.S.I.	715 × 405 × 250	5.00 - 20.00 5.00 - 25.00	14.3	A	A
20095435	NG	CIAO GREEN 29 C.S.I.	715 × 405 × 250	6.00 - 25.00 6.00 - 29.00	16.6	A	A
HEATING ONLY BOILERS(**)							
20095432	NG	CIAO GREEN 25 R.S.I.	715 × 405 × 250	5.00 - 20.00 5.00 - 25.00	-	A	-

(**) The "heating only" models are supplied with a three-ways valve. Filling tap not available.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

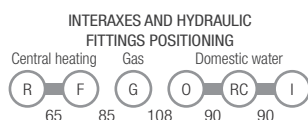| CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter
20008794	Kit hydraulic connections (for welding)
20008795	Kit hydraulic connections (with brass nipples)
1102009	Ultra high head pump (7 metres) - for non-ErP boilers
20105959	High head Low Energy pump (7 metres) - **for ErP boilers**
1220599	Socket probe for DHW tank - 3 m wire (only R.S.I. models)

CODE	DESCRIPTION
20035644	Solar diverter mixing valve
20097192	Condensate pump
Special accessories	
1220639	Limit thermostat for low temperature applications
20012594	Hydraulic connections lower cover
20012595	Upper cover
20164821	Frost protection resistances kit down to -10°C (C.S.I. models)*
20164829	Frost protection resistances kit down to -10°C (R.S.I. models)*
20164824	Frost protection resistances for siphon
20084332	Dummy Ciao Green for POS
20164662	Ø 80-125 non return valve kit with built-in condensate siphon **for C(10) appliance (for 25 C.S.I. model)**
20164664	Ø 80 non return valve kit in PP with built-in condensate siphon **for C(10) appliance (for 25 C.S.I. model)**
20163612	LPG gas transformation kit (for 29 C.S.I. model)
20163618	LPG gas transformation kit (for 25 R.S.i. model)

(*) The installation of frost protection resistances for C.S.I. models (code 20164821) and for R.S.I. models (code 20164829) must be made togheter with the siphon frost protection (code 20164824) and the hydraulic connection lower cover (code 20012594).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi and 'heating-only' wall-hung boilers (with new DIN connections)

QUADRA GREEN

Beretta

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

CH — DHW — Gas — DHW — CH

(F) — (O) — (G) — (I) — (R)

65 — 120 — 60 — 55
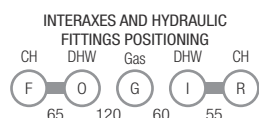
- **On ErP boilers: Low Energy, A-Class, synchronous pump EEI ≤ 0.20.**
- **A cost-conscious condensing boiler with compact dimensions and low lift weight, enabling a flexible installation anywhere in the home.**
- 5 : 1 modulation ratio.
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- The RANGE RATED certification allows to adapt the power of the boiler to the real thermal requests of the installation.
- Pump positioned on the right side.
- **NEW DIN connections to facilitate any replacement or new installation in buildings with the same connections configuration.**
- Stylish and easy-to-use control panel with a digital display and 3-LEDs signalling the boiler working status and the self-diagnostic.
- Built-in thermoregulation (with external probe available as option).
- QUADRA GREEN can be converted to LPG through specific LPG kit (as option).
- **The model 25 C.S.I. Erp becomes a $C_{(10)}$ appliance(*) with specific non return valve kit, available as option.**
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H×W×D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20095438	NG	QUADRA GREEN 25 C.S.I.	715 × 405 × 250	5.00 - 20.00 5.00 - 25.00	14.3	A	A
20095440	NG	QUADRA GREEN 30 C.S.I.	715 × 405 × 250	6.00 - 25.00 6.00 - 29.00	16.6	A	A
HEATING ONLY BOILERS(**)							
20095439	NG	QUADRA GREEN 25 R.S.I.	715 × 405 × 250	5.00 - 20.00 5.00 - 25.00	-	A	-

(*) "A $C_{(10)}$ appliance is designed to become connected to a common duct system that is designed to operate under the conditions where the static pressure in the common flue duct might exceed the static pressure in the common air duct".

(**) The "heating only" models are supplied with a three-ways valve. Filling tap not available.

QUADRA GREEN

⮁ Beretta

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT **(1)**

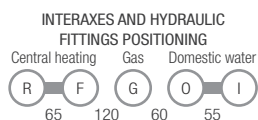| CODE	DESCRIPTION
20143659	BeSMART CONTROL **(2)**

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter
20008794	Kit hydraulic connections (for welding)
20008795	Kit hydraulic connections (with brass nipples)
1102009	Ultra high head pump (7 metres) - for non-ErP boilers
20105959	High head Low Energy pump (7 metres)
1220599	Socket probe for DHW tank -3 m wire (only R.S.I. models)
20035644	Solar diverter mixing valve

CODE	DESCRIPTION
1100509	Gas tap ¾" right-angle
20086186	Brass hydraulic fittings combi: CH tap, CH tap with filter, gas tap, cold water tap, hot water bend
20086187	Brass hydraulic fittings combi: 2 x ¾" brass CH bend, gas tap, cold water tap, 1 x ½" hot water bend
20086189	Brass hydraulic fittings heating only: CH tap, CH tap with filter, gas tap, 2 x ¾" brass tank bends
20086188	Brass hydraulic fittings heating only: 4 x ¾" brass CH and tank bends, gas tap
20077607	Brass hydraulic fittings combi: 2 x ¾" CH taps, 1 x ¾" gas bend, cold water tap, hot water bend
20097192	Condensate pump
Special accessories	
1220639	Limit thermostat for low temperature applications
20012594	Lower cover for hydraulic connections
20012595	Upper cover
20152709	Dummy for POS
20164662	Ø 80-125 non return valve kit with built-in condensate siphon **for C(10) appliance (for 25 C.S.I. model)**
20164664	Ø 80 non return valve kit in PP with built-in condensate siphon **for C(10) appliance (for 25 C.S.I. model)**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi wall-hung boilers for high temperature systems

CIAO AT 25 C

Beretta

LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating	Gas	Domestic water
F O	G	I R
60 74	48	65

- **New boilers with Low NOx Class 6** according to European Directive.
- **New digital interface.**
- **Compact dimensions.**
- **Innovative finned post heat exchanger in stainless steel material.**
- Designed for easy installation, specifically for high temperature systems.
- **Innovtive gas-air combustion supervisor system.**
- Frost protection available as option (till -10°C).
- IPX5D electrical protection.
- DIN hydraulic connection.
- Expansion vessel 8 litres.
- Hydraulic connection, gas and DHW taps available as accessories.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Condensing with post heat-exchanger

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25°C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20176935	NG	CIAO AT 25 C	715 × 405 × 250	7.50 - 25.00 7.50 - 25.00	14.3	B	A
20176941	LPG	CIAO AT 25 C	715 × 405 × 250	7.50 - 25.00 7.50 - 25.00	14.3	B	A

■ » NEW

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
20132005	Wall-mounted hydraulic connections and gas tap
20133516	Wall-mounted hydraulic connections and heating, gas and DHW taps
20035644	Solar diverter mixing valve
20097192	Condensate pump
20178827	High head Low Energy pump (7 metres)

CODE	DESCRIPTION
Special accessories	
20014742	In Wall box
20135496	kit polyphosphates dispenser
20012595	Upper cover kit
20012594	Lower cover kit
20183138	Frost protection resistance kit down to -10°C (to be used with lower cover kit)
Flues accessories	
20134830	Flue adapter kit from Ø60/100 to Ø80+80 (air inlet swelling position)
20129175	Ø60/100 Horizontal flue terminal kit with 90° reduced concentric bend (1)
20129176	Ø60/100 Telescopic horizontal flue terminal kit with 90° reduced concentric bend (1)
20129177	Ø60/100 Vertical flue terminal kit with vertical adapter (2)
20129769	Vertical flue adapter kit from O60/100 to O80 (for type B23 installation) for outdoor
20129172	Ø60/100 90° Reduced concentric bend kit
20129174	Ø60/100 Vertical adapter kit

(1)It includes CODE 20129172 "90° Reduced concentric bend kit".
(2)It includes CODE 20129174 "O60/100 Vertical adapter kit".

Combi wall-hung boilers for high temperature systems

CIAO AT 29 C.S.I.
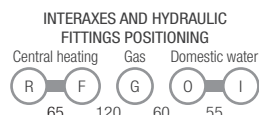
- **Iperstechiometric cooled burner, with low emissions.**
- **Low NOx: Class 6** According to European Directive UNI EN 15502.
- **Low Energy, A-Class, synchronous pump EEI ≤ 0.20 (6 metres) single speed.**
- **Specific for high temperature systems.**
- **Possibility of outdoor installation with frost protection kit (optional).**
- Designed for easy installation, commissioning and servicing.
- Post heat-exchanger in aluminum alloy.
- Two air inlet holes (right and left side).
- Expansion vessel 8 litres.
- Built-in thermoregulation (external sensor as option).
- IPX5D electrical protection.
- Condensate neutralizer drawer kit (as option).
- Hydraulic connection cover available as option.
- Template, hydraulic connections, gas and DHW taps available as option.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

LOW NOx

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating	Gas	Domestic water
R	F	G	O	I
65	120	60	55

≫ available as option

Condensing with post heat-exchanger

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	CH INPUT DHW INPUT MIN - MAX (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20151830	NG	CIAO AT 29 C.S.I. LOW NOx (A)	780 × 400 × 338	14.00 - 28.00 14.00 - 28.00	16.1	B	A

(A) Model available until the stocks last.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi wall-hung boilers for high temperature systems
CIAO AT 29 C.S.I.

Beretta

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION		CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT [1]		20143659	BeSMART CONTROL [2]

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

[1] Complete kit for WiFi installation.
[2] Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION		CODE	DESCRIPTION
Comfort accessories			20114670	Hydraulic connection kit for Ciao AT
20059641	ALPHA DGT WIRELESS digital room thermostat		20105959	High head Low Energy pump (7 metres)
20059639	ALPHA DGT digital room thermostat		**Special accessories**	
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat		20105784	Upper cover kit
20063872	ALPHA 7D 7-day digital room thermostat		20116879	Lower cover kit
1220559	Outdoor probe with connector		20164832	Frost protection resistances kit down to -10°C (to be used with lower cover kit)
Hydraulic accessories			20102924	Condensate neutralizer drawer kit
1101989	Heating taps		20049139	Alarm remoting kit
1101999	Heating taps with filter		20164205	OTBus connector
20035644	Solar diverter mixing valve		20106019	Frost protection resistances kit for condensate neutralizer drawer (1)
20097192	Condensate pump		20157499	LPG gas transformation kit

(1)To use only with Frost protection resistance kit (code 20164832).

Notes

Beretta

ErP

		PRODUCT ENERGY CLASS	COMBI MODELS	
			room-sealed	conventional flue
with INSTANTANEOUS DHW PRODUCTION	**EXCLUSIVE MIX**	non ErP compliant (*)	26 (NG) 30 (NG) 35 (NG)	–
	MYNUTE Lx	C / B XL	–	24 (NG) 28 (NG)
	MYNUTE S	non ErP compliant (*)	24 (NG - LPG) 28 (NG - LPG) 35 (NG)	24 (NG) 28 (NG)
	CIAO S	non ErP compliant (*)	20 (NG) 24 (NG - LPG)	–
	QUADRA II Lx	C / B XL	–	24 (NG)
	QUADRA II [1]	non ErP compliant (*)	24 (NG) 28 (NG)	–
	CIAO Lx	C / B XL	–	24 (NG - LPG)
	CIAO	non ErP compliant (*)	20 (NG) 24 (NG) 28 (NG - LPG)	24 (NG) 28 (NG)

(*) According to the European Directive ERP, these products are not allowed to be placed on the European market by the manufacturer since 01/08/2015
(1) With new DIN connections to enable an easy installation in buildings with the same configuration.

'HEATING-ONLY' MODELS		DHW PRODUCTION	BeSMART WIFI
room-sealed	conventional flue		
30 (NG) 35 (NG)	–	via DHW heat-exchanger in stainless steel	compatible (as option)
–	–	via DHW heat-exchanger in stainless steel	compatible (as option)
28 (NG) 35 (NG)	–	via DHW heat-exchanger in stainless steel	compatible (as option)
24 (NG)	–	via DHW heat-exchanger in stainless steel	compatible (as option)
–	–	via DHW heat-exchanger in stainless steel	compatible (as option)
–	–	via DHW heat-exchanger in stainless steel	compatible (as option)
		via DHW heat-exchanger in stainless steel	compatible (as option)
–	–	via bithermic heat-exchanger in copper	compatible (as option)

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
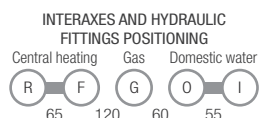
- Air/gas electronic combustion control = constant efficiency.
- Automatic room-temperature adjustment system (S.A.R.A. Booster).
- User-friendly and intuitive digital back-lit display.
- Easy filling system directly from the panel.
- "Comfort" functions.
- IPX5D electrical protection.
- Built-in thermoregulation (with external probe as option).
- Hydraulic connections cover supplied as standard.
- Modulating fan (only on room-sealed models).
- Hydraulic connections, gas and DHW taps supplied as standard.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating | Gas | Domestic water
R — F | G | O — I
65 | 120 | 60 | 55

Room-sealed (modulating air/gas)			According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015		
CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
1150343	NG	EXCLUSIVE MIX 26 C.S.I.	805 × 400 × 332	26.00	15,0
1150673	NG	EXCLUSIVE MIX 30 C.S.I.	805 × 450 × 332	30.00	17,4
1150383	NG	EXCLUSIVE MIX 35 C.S.I.	805 × 500 × 332	35.00	20,2
HEATING ONLY BOILERS*					
1150353	NG	EXCLUSIVE MIX 30 R.S.I.	805 × 450 × 332	30.00	-
20029161	NG	EXCLUSIVE MIX 35 R.S.I.	805 × 500 × 332	35.00	-

* The 'heating only' models are supplied with a three-ways valve. Filling tap not available.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Other accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
20164477	OTBus interface board
1220559	Outdoor probe with connector

CODE	DESCRIPTION
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter (for combi models)
1220599	Socket probe for DHW tank - 3m wire (for R.S.I. models)
20025113	Solar diverter mixing valve (including flexible stainless steel connection pipes)
1101979	High head pump (6 metres) - (for 26/30 C.S.I. models)
Special accessories	
20071580	Dummy Exclusive MIX for POS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

MYNUTE Lx - MYNUTE S

Beretta

On Lx models only:
- **New low NOx emissions cooled burner (Class 6** - According to European Directive UNI EN 15502).
- **Low Energy, synchronous pump EEI ≤ 0.20.**

- Primary heat exchanger in copper.
- DHW plate heat exchanger in stainless steel.
- Two air inlet holes (right and left side).
- Expansion vessel 9 litres.
- Intuitive and easy-to-use control panel with backlit digital display.
- Built-in thermoregulation (external temperature probe as option).
- IPX5D electrical protection.
- Lower cover available as option (for 24 C.S.I., 28 C.S.I., 28 R.S.I. models).
- Hydraulic connections, gas and DHW taps available as option.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating	Gas	Domestic water
R F	G	O I
65 120	60	55

Conventional flue

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20151436	NG	MYNUTE 24 C.A.I. Lx	740 × 400 × 338	24.06	13.8	C	B
20151438	NG	MYNUTE 28 C.A.I. Lx	740 × 452 × 338	28.87	16.6	C	B

Note: Boilers to be connected only to a flue, shared between multiple dwellings in existing buildings.

Conventional flue

According to the European Directive ERP, the following products are not allowed
to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20074588	NG	MYNUTE S 24 C.A.I. E	740 × 400 × 336	24.00	13.7
20069390	NG	MYNUTE S 28 C.A.I. E	740 × 452 × 336	28.00	16.5

Room-sealed

According to the European Directive ERP, the following products are not allowed
to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20069385	NG	MYNUTE S 24 C.S.I.	740 × 400 × 336	24.00	13.9
20069386	LPG	MYNUTE S 24 C.S.I.	740 × 400 × 336	24.00	13.9

Combi and 'heating only' low NOx wall-hung boilers

MYNUTE Lx - MYNUTE S

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Room-sealed

According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20069387	NG	MYNUTE S 28 C.S.I.	740 × 400 × 336	28.00	16.0
20069389	LPG	MYNUTE S 28 C.S.I.	740 × 400 × 336	28.00	16.0
20069392	NG	MYNUTE S 35 C.S.I.	780 × 505 × 336	35.00	20.0
HEATING ONLY BOILERS*					
20069391	NG	MYNUTE S 28 R.S.I.	740 × 400 × 336	28.00	-
20069395	NG	MYNUTE S 35 R.S.I.	780 × 505 × 336	35.00	-

* The "heating only" models are supplied with a three-ways valve. Filling tap not available.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this

catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Other accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7- day digital room thermostat
20063872	ALPHA 7D 7- day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
20155079	LPG gas transformation kit for 24 CAI Lx model

CODE	DESCRIPTION
20155101	LPG gas transformation kit for 28 CAI Lx model
1101999	Heating taps with filter
1220599	Socket probe for DHW tank - 3m wire (for R.S.I. models)
20025113	Solar diverter valve (including flexible stainless steel connection pipes)
20051629	Lower cover (only for 24 C.S.I., 28 C.S.I., 28 R.S.I. models)
20008794	Hydraulic connections kit (for welding)
20051979	Hydraulic connections kit (with brass nipples)
1101979	High head pump (6 metres) - for non-ErP boilers
20105959	High head Low Energy pump (7 metres) - **for ErP boilers**
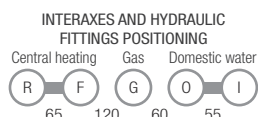
- Primary heat exchanger in copper.
- DHW plate heat exchanger in stainless steel.
- Efficiency ★★★ according to European Directive EEC 92/42.
- Two air inlet holes (right and left side).
- Expansion vessel 8 litres.
- 3-speed circulator 5 metres (4 metres single-speed on 20 kW version).
- Intuitive and easy-to-use control panel with backlit digital display.
- Built-in thermoregulation (external temperature probe as option).
- IPX5D electrical protection.
- Frost protection kit till -10 °C available as option.
- Upper and lower cover available as option.
- Hydraulic connections, gas and DHW taps available as option.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating	Gas	Domestic water
R	F	G	O	I
65	120	60	55

Room-sealed	According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20068208	NG	CIAO S 20 C.S.I.	715 × 405 × 248	20.00	11.8
20068204	NG	CIAO S 24 C.S.I.	715 × 405 × 248	24.00	13.7
20068228	LPG	CIAO S 24 C.S.I.	715 × 405 × 248	24.00	13.7
HEATING ONLY BOILERS*					
20068207	NG	CIAO S 24 R.S.I.	715 × 405 × 248	24.00	-

* The "heating only" models are supplied with a three-ways valve. Filling tap not available.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
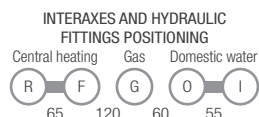(2) Only BeSMART thermostat.

CIAO S

Other accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7- day digital room thermostat
20063872	ALPHA 7D 7- day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter

CODE	DESCRIPTION
20008794	Hydraulic connections kit (for welding)
20008795	Hydraulic connections kit (with brass nipples)
20025113	Solar diverter mixing valve kit (including flexible stainless steel connection pipes)
1101979	High head pump (6 metres)
1220599	Socket probe for DHW tank - 3m wire (only R.S.I. models)
Special accessories	
20012594	Lower cover
20012595	Upper cover
20164821	Frost protection resistances kit down to -10°C (C.S.I. models)**

(**) Together with the installation of the frost protection resistances kit (code 20164821), it is necessary to install the lower cover (code 20012594).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

CH   DHW   Gas   DHW   CH
F   O   G   I   R
65   120   60   55

On Lx models only:
- **New low NOx emissions cooled burner (Class 6** - According to European Directive UNI EN 15502).
- **Low Energy, synchronous pump EEI ≤ 0.20.**

- Primary heat exchanger in copper.
- DHW plate heat exchanger in stainless steel.
- Efficiency ★★★ according to European Directive EEC 92/42 (on room-sealed models).
- Two air inlet holes (right and left side).
- Expansion vessel 8 litres.
- 3-speed circulator, located on the right side of the boiler (no ErP models).
- Intuitive and easy-to-use control panel with backlit digital display.
- Compact dimensions and low lift weight enable a flexible installation with the boiler able to be sited almost anywhere in the home.
- **DIN connections,** to enable an easy installation both as a replacement or in new buildings with the same configuration.
- Built-in thermoregulation (external temperature probe as option).
- Hydraulic connections, gas and DHW taps available as option.
- QUADRA II can be converted to LPG through specific LPG kit (as option).
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

Conventional flue

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	
INSTANTANEOUS COMBI BOILERS							
20151439	NG	QUADRA II 24 C.A.I. Lx	740 × 400 × 328	24.06	13.8	C	B

Note: Boilers to be connected only to a flue, shared between multiple dwellings in existing buildings.

Room-sealed

According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20084087	NG	QUADRA II 24 C.S.I.	715 × 405 × 250	24.00	13.7
20097272	NG	QUADRA II 28 C.S.I.	740 × 400 × 328	28.00	16.3

QUADRA II Lx - QUADRA II

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

| CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Other accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter

CODE	DESCRIPTION
20008794	Kit hydraulic connections (for welding)
20008795	Kit hydraulic connections (with brass nipples)
20025113	Solar diverter mixing valve (including flexible stainless steel connection pipes)
1101979	High head pump (6 metres) - for non-ErP boilers
20105959	High head Low Energy pump (7 metres) - **for ErP boilers**
Special accessories	
20012594	Lower cover
20012595	Upper cover
20155105	LPG gas transformation kit for 24 CAI Lx model

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

CIAO Lx - CIAO

On Lx models only:
- **New low NOx emissions cooled burner (Class 6** - According to European Directive UNI EN 15502).
- **Low Energy, synchronous pump EEI ≤ 0.20.**

- Bithermic heat-exchanger (for non ErP boilers).
- Efficiency ★★★ according to European Directive EEC 92/42 (on room-sealed models).
- Two air inlet holes (right and left side).
- Expansion vessel 8 litres.
- 4 metres single-speed circulator on 20-24 kW versions (non-ErP boilers).
- 5 metres 3-speed circulator on 28 kW versions (non-ErP boilers).
- Intuitive and easy-to-use control panel with backlit digital display.
- Built-in thermoregulation (external temperature probe as option).
- IPX5D electrical protection.
- Frost protection kit down to -10 °C available as option.
- Upper and lower cover availbale as option (on 20-24 C.S.I. models).
- Hydraulic connections, gas and DHW taps available as option.
- **Can be matched with BeSMART Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

LOW NOx

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

Central heating		Gas	Domestic water
R	F	G	O	I
65	120	60	55

Conventional flue

ErP

CODE	GAS	MODEL	DIMENSIONS H×W×D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)	ENERGY CLASS	XL
INSTANTANEOUS COMBI BOILERS							
20151648	NG	CIAO 24 C.A.I. Lx	740 × 400 × 340	24.06	13.8	C	B
20151437	LPG	CIAO 24 C.A.I. Lx	740 × 400 × 340	24.06	13.8	C	B

Note: Boilers to be connected only to a flue, shared between multiple dwellings in existing buildings.

Conventional flue

According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H×W×D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
INSTANTANEOUS COMBI BOILERS					
20070518	NG	CIAO 24 C.A.I. e	740 × 400 × 332	24.00	13.6
20070520	NG	CIAO 28 C.A.I. e	740 × 400 × 332	28.00	16.3

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 25 °C)
Room-sealed			According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015		
INSTANTANEOUS COMBI BOILERS					
20070516	NG	CIAO 24 C.S.I. e	715 × 405 × 248	24.00	13.7
20070517	NG	CIAO 28 C.S.I. e	740 × 450 × 332	28.00	16.2
20070522	LPG	CIAO 28 C.S.I. e	740 × 450 × 332	28.00	16.2

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT [1]

CODE	DESCRIPTION
20143659	BeSMART CONTROL [2]

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
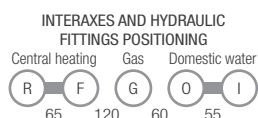(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Other accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
1220559	Outdoor probe with connector
Hydraulic accessories	
1101989	Heating taps
1101999	Heating taps with filter
20025113	Solar diverter valve (including flexible stainless steel connection pipes)

CODE	DESCRIPTION
20008794	Kit hydraulic connections (for welding)
20008795	Kit hydraulic connections (with brass nipples)
1101979	High head pump - 6 metres (for 20-24 C.S.I models) - for non-ErP boilers
20105959	High head Low Energy pump (7 metres) - **for ErP boilers**
Special accessories	
20012594	Lower cover (only for CIAO 20-24 C.S.I)
20012595	Upper cover (only for CIAO 20-24 C.S.I)
20164821	Frost protection resistances kit down to -10°C (only for CIAO 20-24 C.S.I)*
20155079	LPG gas transformation kit for 24 CAI Lx model

(*) Together with the installation of the frost protection resistances kit (code 20164821), it is necessary to install the lower cover (code 20012594).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HYBRID READY

- Hydraulic separators to be matched with EXCLUSIVE C/R boilers in hybrid systems.
- **Low Energy self-modulating pumps (EEI≤0.20).**
- For direct zone, two direct zones, or 1 high temperature zone and 1 low temperature zone.
- Motorized mixing valve on mixed zone.
- Setting of independent climatic curves for each zone.
- **To be used with control manager REC10 H.**
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-wall installations (INDOOR and OUTOOR).
- Possibility to connect the zones thermostats.

Connect Hybrid – Low Energy with motorized mixed zones

ErP

CODE	MODEL	ZONES	DIMENSIONS H x W x D (mm)
20130801	CONNECT HYBRID 1D [1] [2]	1 direct zone	see BOX
20130802	CONNECT HYBRID 2D [1] [2]	2 direct zones	see BOX
20130803	CONNECT HYBRID AT/BT [1] [3]	1AT/BT (motorized)	see BOX

(1) Supplied without built-in BOX (code **20130808), for the installation it is neccessary to purchase it**.
(2) Equipped as standard with limit thermostat for low temperature systems.
(3) Mixed zone equipped as standard with limit thermostat for low temperature systems.

Box for Connect

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)
20130808	BOX for CONNECT*	720 x 400 x 160
20131752	Taps kit for Connect Hybrid	-

(*) **For the installation it is neccessary to purchase built-in BOX**.

CONNECT HYBRID

Accessories

CODE	DESCRIPTION		CODE	DESCRIPTION
20134449	REC 10H Control manager*		20134478	REC 10H Power supply unit **

(*) Control for hybrid systems, in accordance with the layouts provided, to be installed in EXCLUSIVE boiler. Fulfils the role of system single manager. Includes wall mounting kit in case of use as single zone manager.
(**) Required if REC 10H is used as single zone manager (wall installation).

Connect Hybrid with direct or mixed zones

Residual head available to the HIGH TEMPERATURE system
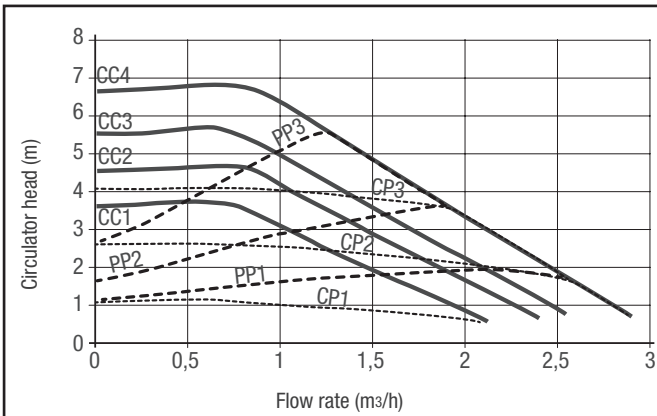
Residual head available to the LOW TEMPERATURE system
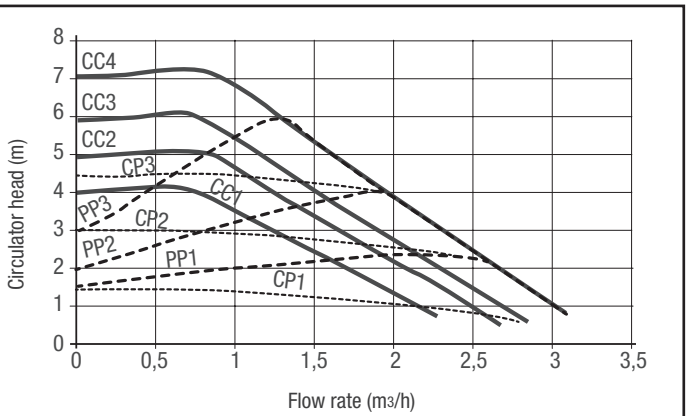
PP1	LOW proportional head curve
PP2	AVERAGE proportional head curve
PP3	HIGH proportional head curve
CP1	LOW constant head curve
CP2	AVERAGE constant head curve
CP3	HIGH constant head curve

CC1	Curve 1 = 4 metres
CC2	Curve 2 = 5 metres
CC3	Curve 3 = 6 metres
CC4	Curve 4 MAX = 7 metres

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- Can be matched with all Beretta condensing and standard-efficiency wall-hung and floor-standing boilers.
- **Low Energy auto-modulating pumps (EEI≤0.20).**
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-box installations (INDOOR and OUTOOR).
- IPX4D electrical protection.
- Possibility to connect the zones thermostats.

Connect LE - Low Energy with direct zones

CODE	MODEL	ZONES	DIMENSIONS H x W x D (mm)
20083968	CONNECT LOW ENERGY 1D LE (*)	1 direct zone (high head)	see BOX
20083969	CONNECT LOW ENERGY 2D LE (*)	2 direct zones	see BOX
20083970	CONNECT LOW ENERGY 3D LE (*)	3 direct zones	see BOX

(*) For the installation it is neccessary to purchase the BOX (code 20007305)

Box for Connect

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)
20007305	BOX for CONNECT	720 x 400 x 160

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20085456	Insulation kit CONNECT LE (*)	20164477	OTBus interface board for EXCLUSIVE GREEN e and EXCLUSIVE BOILER GREEN he

(*) To be installed before introducing the CONNECT into the BOX.

CONNECT LE

Connect LE with direct zones

Residual head available to the system for CONNECT 1D LE
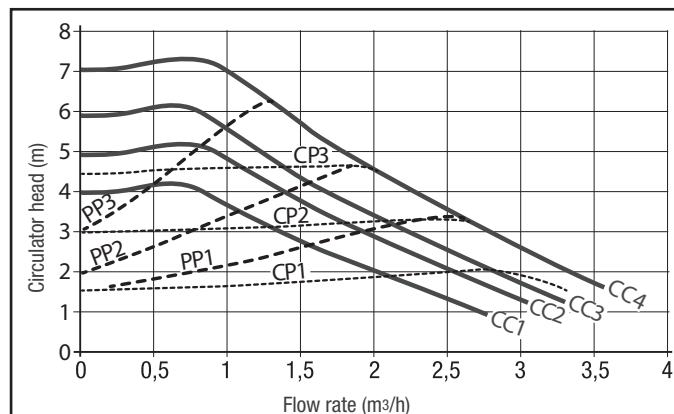
Residual head available to the system for CONNECT 3D LE / CONNECT 2D LE

PP1	LOW proportional head curve	
PP2	AVERAGE proportional head curve	
PP3	HIGH proportional head curve	
CP1	LOW constant head curve	
CP2	AVERAGE constant head curve	
CP3	HIGH constant head curve	

CC1	Curve 1 = 4 metres
CC2	Curve 2 = 5 metres
CC3	Curve 3 = 6 metres
CC4	Curve 4 MAX = 7 metres

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- Can be matched with all Beretta condensing and standard-efficiency wall-hung and floor-standing boilers.
- **Low Energy auto-modulating pumps (EEI≤0.20).**
- 3-ways motorized mixing valve.
- Independent climatic bends setting for each zone.
- Electronic management board supplied as standard.
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-box installations (INDOOR and OUTOOR).
- IPX4D electrical protection.
- Possibility to connect the zones thermostats.

Connect LE - Low Energy with motorized mixed zones

ErP

CODE	MODEL	ZONES	DIMENSIONS H x W x D (mm)
20083971	CONNECT LOW ENERGY AT/BT LE (*)	1AT+1BT	see BOX
20083972	CONNECT LOW ENERGY AT/2BT LE (*)	1AT+2BT	see BOX

(*) For the installation it is neccessary to purchase the BOX (code 20007305)

Box for Connect

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)
20007305	BOX for CONNECT	720 x 400 x 160

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20085456	Insulation kit CONNECT LE (*)	20164477	OTBus interface board for EXCLUSIVE GREEN e and EXCLUSIVE BOILER GREEN he

(*) To be installed before introducing the CONNECT into the BOX.

CONNECT LE

Connect LE with mixed zones

**Residual head available at
HIGH TEMPERATURE system**
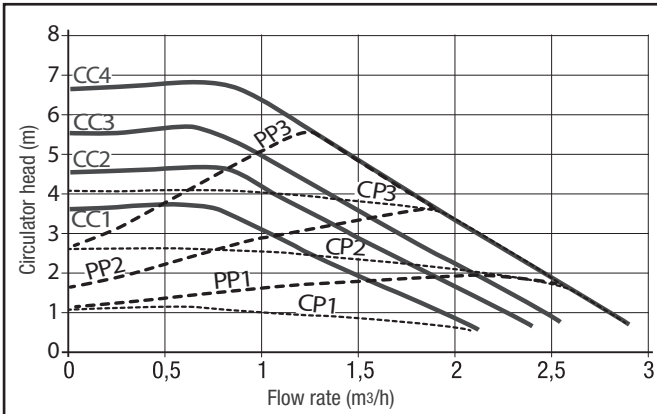
**Residual head available at
LOW TEMPERATURE system**

PP1	LOW proportional head curve
PP2	AVERAGE proportional head curve
PP3	HIGH proportional head curve
CP1	LOW constant head curve
CP2	AVERAGE constant head curve
CP3	HIGH constant head curve

CC1	Curve 1 = 4 metres
CC2	Curve 2 = 5 metres
CC3	Curve 3 = 6 metres
CC4	Curve 4 MAX = 7 metres

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
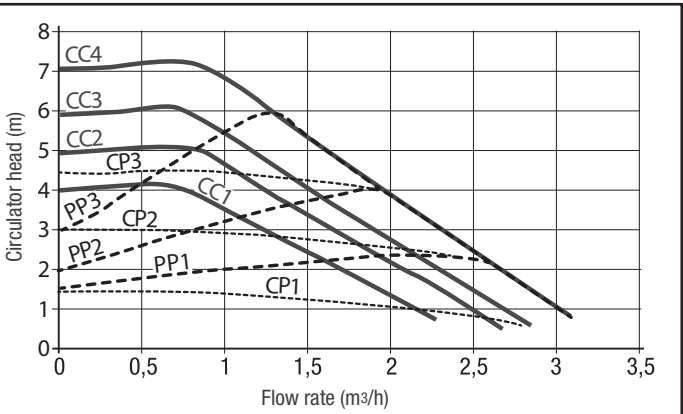
- Can be matched with all Beretta condensing and standard-efficiency wall-hung and floor-standing boilers.
- Thermostatic mixing valve on BT zones.
- **Low Energy auto-modulating pumps (EEI≤0.20).**
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-box installations (INDOOR and OUTOOR).
- IPX4D electrical protection.

Connect BASE LE - Low Energy with thermostatic BT zones

ErP

CODE	MODEL	DIMENSIONS H x W x D (mm)
20084765	CONNECT BASE LE MIX1 1AT+1BT (thermostatic) (*)	see BOX
20084766	CONNECT BASE LE MIX2 1AT+2BT (thermostatic) (*)	see BOX

(*) For the installation it is neccessary to purchase the BOX (code 20007305)

Box for Connect

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)
20007305	BOX for CONNECT (for installation)	720 x 400 x 160

Accessories

CODE	DESCRIPTION
20085456	Insulation kit for CONNECT LE (*)

(*) To be installed before introducing the CONNECT into the BOX.

CONNECT BASE LE

🔹 **Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Connect Base LE - Low Energy

Residual head available at HIGH TEMPERATURE system
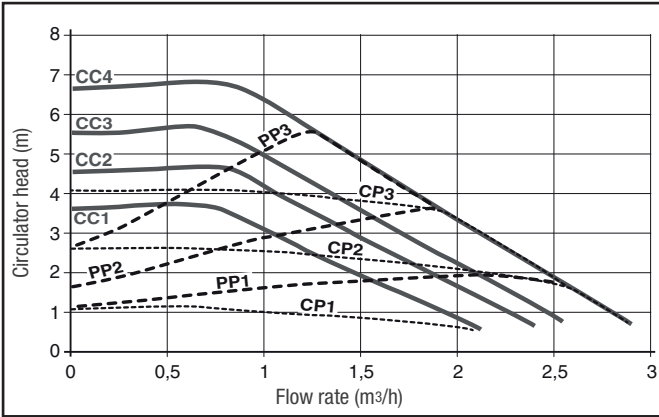
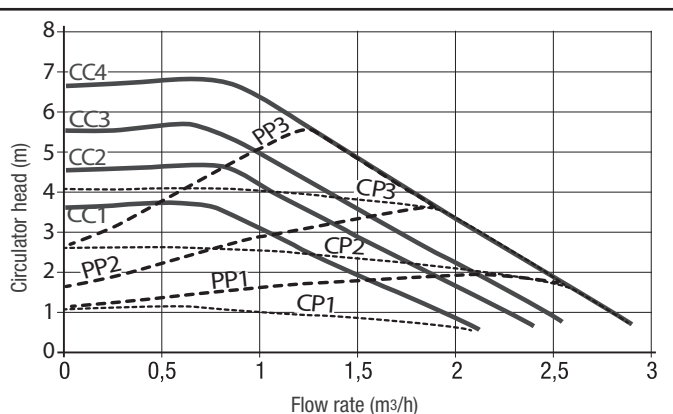**Residual head available at LOW TEMPERATURE system**
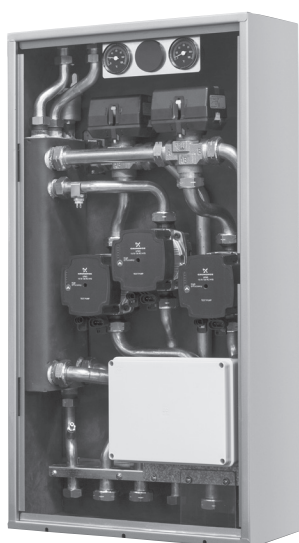

PP1   LOW proportional head curve
PP2   AVERAGE proportional head curve
PP3   HIGH proportional head curve

CP1   LOW constant head curve
CP2   AVERAGE constant head curve
CP3   HIGH constant head curve
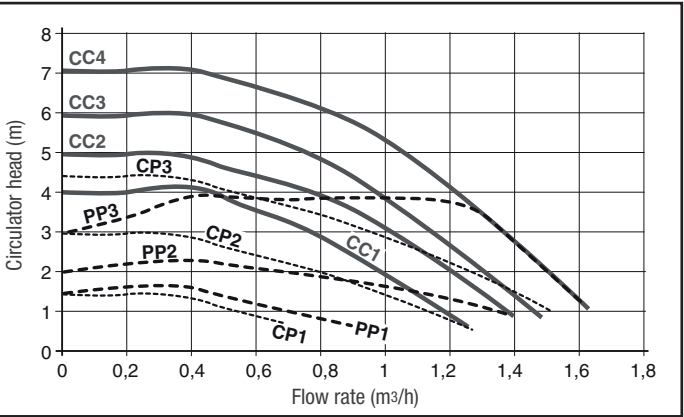
CC1   Curve 1 = 4 metres
CC2   Curve 2 = 5 metres
CC3   Curve 3 = 6 metres
CC4   Curve 4 MAX = 7 metres
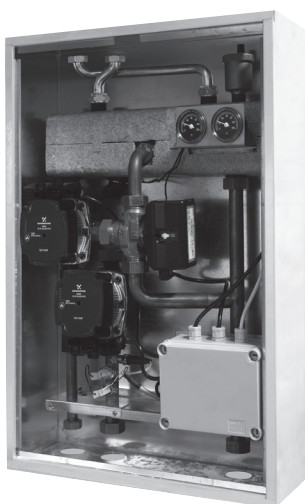
- To be matched only with Beretta condensing boilers Exclusive Green e and Exclusive Boiler Green he.
- 3-ways motorized mixing valve.
- **Low Energy auto-modulating pumps (EEI≤0.20).**
- Independent climatic bends setting for each zone.
- Electronic management board supplied as standard.
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-box installations (INDOOR and OUTOOR).
- IPX4D electrical protection.
- **Box supplied as standard.**

Connect LE - Low energy

ErP

CODE	MODEL	DIMENSIONS H x W x D (mm)
20094267	CONNECT AT/BT LE (BT with motorized mixing valve)	616 x 440 x 155

Ø80 twin flue system in plastic (PP) for condensing boilers - H1 Class (*)

CODE / DESCRIPTION	WALL-HUNG BOILERS	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20134830** FLUE ADAPTER KIT from Ø60/100 to TWIN Ø80-80 SWELLING POSITION			■	■						■
code **20129765** FLUE ADAPTER KIT from Ø60/100 to TWIN Ø80-80			■		■					■
code **20137501** Ø80 TWIN SYSTEM KIT								■	■	
code **20137523** Ø80 TWIN SYSTEM KIT		■		■		■	■			■
code **20137503** Ø80 45°BEND		■	■	■	■	■	■	■	■	■
code **20137506** Ø80 90°BEND		■	■	■	■	■	■	■	■	■
code **20137508** Ø80 EXTENSION 500 mm		■	■	■	■	■	■	■	■	■
code **20137509** Ø80 EXTENSION 1000 mm		■	■	■	■	■	■	■	■	■
code **20137511** Ø80 EXTENSION 2000 mm		■	■	■	■	■	■	■	■	■
code **20137517** Ø80 HORIZONTAL FLUE TERMINAL 985 mm		■	■	■	■	■	■	■	■	■
code **20137515** Ø80 AIR INLET HORIZONTAL TERMINAL 662 mm		■	■	■	■	■	■	■	■	■
code **20137529** Ø60/80 BEND with INSPECTION		■	■	■	■	■	■	■	■	■
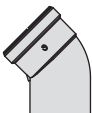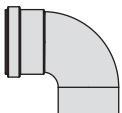
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø80 twin flue system in plastic (PP) for condensing boilers - H1 Class (*)

CODE / DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20129769** FLUE ADAPTER from Ø60/100 to Ø80 for B23 INSTALLATION with AIR INLET				■		■					■
code **20137521** FLUE ADAPTER from Ø60/100 to Ø80 for B23 INSTALLATION with AIR INLET			■				■	■	■	■	
code **20137527** Ø60-80 FLUE ADAPTER for INSTALLATION TYPE B23 and AIR INLET			■				■	■	■	■	
code **20129768** Ø60-80 FLUE ADAPTER for INSTALLATION TYPE B23 and AIR INLET				■		■					
code **20137532** Ø80 SPACERS FOR PIPE (4 pcs. pack)			■	■	■	■	■	■	■	■	■
code **20164664** Ø80 NON RETURN VALVE KIT in PP with BUILT-IN CONDENSATE SIPHON for C(10) APPLIANCE (for 25 C.S.I. MODEL)									■	■	

Due to exposition to sunlight, the colour of the material (PP) may be altered.

(*)   Class H1 - High positive pressure (max. 5,000 Pa).

(1)   New CIAO AT 25 kW.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS
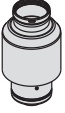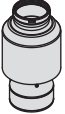
CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø80 twin flue system in aluminium for condensing boilers

CODE DESCRIPTION		WALL–HUNG BOILERS	MySMART	Exclusive C/R (2)	Exclusive BOILER GREEN HE	Mynute X (2)	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1) (2)
code **1102019** Ø80 TWIN SYSTEM KIT			■	■	■	■	■	■	■	■	■
code **20162295** Ø80 45°BEND			■	■	■	■	■	■	■	■	■
code **20162296** Ø80 90°BEND			■	■	■	■	■	■	■	■	■
code **20162298** Ø80 EXTENSION 500 mm			■	■	■	■	■	■	■	■	■
code **20162299** Ø80 EXTENSION 1000 mm			■	■	■	■	■	■	■	■	■
code **20162300** Ø80 EXTENSION 2000 mm			■	■	■	■	■	■	■	■	■
code **20162442** Ø80 HORIZONTAL FLUE TERMINAL			■	■	■	■	■	■	■	■	■
code **20162665** Ø80 AIR INLET HORIZONTAL TERMINAL			■	■	■	■	■	■	■	■	■
code **20162448** Ø80 FLUE ADAPTER with AIR INLET			■	■	■	■	■	■			■
code **20014659** Ø80 FLUE ADAPTER with AIR INLET			■	■	■	■	■	■	■	■	
code **20137532** Ø80 SPACERS FOR PIPE (4 pcs. pack)			■	■	■	■	■	■	■	■	■

(1)   New CIAO AT 25 kW.
(2)   For boiler start-up, see the section on flue 60/100 and only afterwards switch to diameter 80/125.

Ø60/100 concentric flue system in plastic (PP/PPu) for condensing boilers - Class H1 (*)

CODE / DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R	Mynute X	Exclusive BOILER GREEN HE	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20132012** Ø60/100 45°CONCENTRIC BEND			■			■	■	■	■	■	
code **20132040** Ø60/100 45°CONCENTRIC BEND (2 pcs.)			■			■	■	■	■	■	
code **20132013** Ø60/100 90°CONCENTRIC BEND			■			■	■	■	■	■	
code **20132042** Ø60/100 90°CONCENTRIC BEND or REAR FLUE EXIT									■	■	
code **20129172** (A) Ø60/100 90° REDUCED CONCENTRIC BEND KIT				■	■						■
code **20132043** Ø60/100 CONCENTRIC EXTENSION 500 mm			■			■	■	■	■	■	■
code **20132044** Ø60/100 CONCENTRIC EXTENSION 1000 mm			■			■	■	■	■	■	■
code **20132045** Ø60/100 CONCENTRIC EXTENSION 2000 mm			■			■	■	■	■	■	■
code **20132020** Ø60/100 VERTICAL FLUE TERMINAL Ø125 EXTERNAL STRAIGHT PIPE			■			■	■	■	■	■	■
code **20132018** Ø60/100 HORIZONTAL FLUE TERMINAL			■			■	■	■	■	■	■
code **20129175** Ø60/100 HORIZONTAL FLUE TERMINAL KIT with 90° REDUCED CONCENTRIC BEND				■	■					■	
code **20129176** Ø60/100 TELESCOPIC HORIZONTAL FLUE TERMINAL KIT with 90° REDUCED CONCENTRIC BEND				■	■					■	
code **20129177** Ø60/100 VERTICAL FLUE TERMINAL KIT with VERTICAL ADAPTER				■	■					■	

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Condensing
FLUE OPTIONS

Beretta

Ø60/100 concentric flue system in plastic (PP/PPu) for condensing boilers - Class H1 (*)

CODE / DESCRIPTION		WALL–HUNG BOILERS	MySMART	Exclusive C/R	Mynute X	Exclusive BOILER GREEN HE	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20132050** Ø125 PITCHED ROOF TILE for VERTICAL FLUE			■			■	■	■	■	■	■
code **20135579** Ø125 FLAT ROOF TILE for VERTICAL FLUE			■			■	■	■	■	■	■
code **20135584** Ø100 SPACERS for PIPE (4 pcs. pack)			■			■	■	■	■	■	■
code **20129174** (A) Ø60/100 VERTICAL ADAPTER KIT				■	■						■
code **20137535** FLUE ADAPTER KIT from Ø80/80 to Ø60/100											
code **20132015** Ø60/100 EXTENTION with INSPECTION DOOR			■			■	■		■	■	
code **20163032** (**) Ø100 PIPE CLIPS KIT (5 pcs)			■			■	■	■	■	■	■

Due to exposition to sunlight, the colour of the material (PP) may be altered.

(*)   Class H1 - High positive pressure (max. 5,000 Pa).
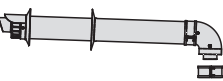
(1)   New CIAO AT 25 kW.

(A)   The straight low curve adapter codes are used to use flue Ø 60/100 available in the catalogue with Exclusive/Mynute X and new Ciao AT boilers.

(**) ATTENTION: For the flue options Ø60/100 concentric flue system in plastic (PP/PPU) clips are not necessary, except for the connection to the boiler. In fact clips are already included in the codes 20132020 and 20132018.
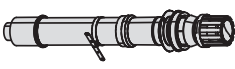
Ø60/100 concentric flue system in PP/Met for condensing boilers - Class H1 (*)

CODE / DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20142823** Ø60/100 45°CONCENTRIC BEND			■		■		■	■	■	■	
code **20142825** Ø60/100 90°CONCENTRIC BEND			■		■		■	■	■	■	
code **20142828** Ø60/100 90°CONCENTRIC BEND with inspection			■		■		■	■	■	■	
code **20142829** Ø60/100 CONCENTRIC EXTENSION 500 mm			■		■		■	■	■	■	
code **20142830** Ø60/100 CONCENTRIC EXTENSION 1000 mm			■		■		■	■	■	■	
code **20142831** Ø60/100 CONCENTRIC EXTENSION 2000 mm			■		■		■	■	■	■	
code **20142835** Ø60/100 CONCENTRIC EXTENSION with inspection			■		■		■	■	■	■	
code **20142839** Ø60/100 VERTICAL FLUE TERMINAL Ø125 EXTERNAL STRAIGHT PIPE			■		■		■	■	■	■	
code **20142836** Ø60/100 HORIZONTAL FLUE TERMINAL			■		■		■	■	■	■	
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE			■		■		■	■	■	■	
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE			■		■		■	■	■	■	
code **20135584** Ø100 SPACERS FOR PIPE (4 pcs. pack)			■		■		■	■	■	■	

Due to exposition to sunlight, the colour of the material (PP) may be altered.

(*)   Class H1 - High positive pressure (max. 5,000 Pa).

(1)   New CIAO AT 25 kW.

Condensing
FLUE OPTIONS
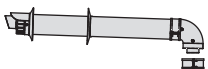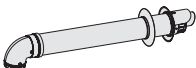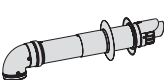
Ø80/125 concentric flue system in PP/Met for condensing boilers

CODE / DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code 20164651 — Ø80/125 45°CONCENTRIC BEND			■		■		■	■	■	■	
code 20164653 — Ø80/125 90°CONCENTRIC BEND			■		■		■	■	■	■	
code 20164655 — Ø80/125 90°CONCENTRIC BEND with INSPECTION DOOR			■		■		■	■	■	■	
code 20164657 — Ø80/125 CONCENTRIC EXTENSION 500 mm			■		■		■	■	■	■	
code 20164659 — Ø80/125 CONCENTRIC EXTENSION 1000 mm			■		■		■	■	■	■	
code 20164660 — Ø80/125 CONCENTRIC EXTENSION 2000 mm			■		■		■	■	■	■	
code 20164661 — Ø80/125 CONCENTRIC EXTENSION with INSPECTION DOOR			■		■		■	■	■	■	
code 20164662 (*) — Ø80/125 CLAPET KIT with BUILT-IN CONDENSATE SIPHON for C(10) APPLIANCE									■	■	
code 20131113 — Ø80/125 VERTICAL FLUE TERMINAL (in PP/PPu); Ø125 EXTERNAL STRAIGHT PIPE			■		■		■	■	■	■	
code 20164673 — Ø80/125 HORIZONTAL FLUE TERMINAL (in PP/PPu)			■		■		■	■	■	■	
code 20164665 — Ø80/125 SPACERS (5 pcs. pack)			■		■		■	■	■	■	

Ø80/125 concentric flue system in PP/Met for condensing boilers

CODE DESCRIPTION		**WALL-HUNG BOILERS**	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE			■		■		■	■	■	■	
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE			■		■		■	■	■	■	
code **20164666** FLUE ADAPTER from Ø60/100 to Ø80/125			■		■		■	■	■	■	

Due to exposition to sunlight, the colour of the material (PP) may be altered.
(1)   New CIAO AT 25 kW.
(*)   Only for 25 C.S.I. model.
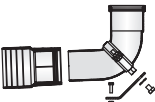
FLUE OPTIONS

Ø60 flue range in plastic (PP) for inside-chimney installation, specific for condensing boilers

CODE / DESCRIPTION		WALL–HUNG BOILERS	MySMART	Exclusive C/R (2)	Exclusive BOILER GREEN HE	Mynute X (2)	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20145877** Ø60 45°BEND			■	■	■	■	■	■	■	■	
code **20145876** Ø60 90°BEND			■	■	■	■	■	■	■	■	
code **20145879** Ø60 EXTENSION 500 mm			■	■	■	■	■	■	■	■	
code **20145882** Ø60 EXTENSION 1000 mm			■	■	■	■	■	■	■	■	
code **20145883** Ø60 EXTENSION 2000 mm			■	■	■	■	■	■	■	■	
code **20145884** Ø60/100 VERTICAL FLUE TERMINAL PP/PPu Ø100 EXTERNAL STRAIGHT PIPE			■	■	■	■	■	■	■	■	
code **20145894** Ø60 T-CONNECTION with CONDENSATE TRAP CAP			■	■	■	■	■	■	■	■	
code **20164584** Ø60 T-CONNECTION			■	■	■	■	■	■	■	■	
code **20145886** Ø60 3 SPACERS KIT for INSIDE-CHIMNEY			■	■	■	■	■	■	■	■	
code **20145888** SHELF SUPPORT KIT for INSIDE-CHIMNEY			■	■	■	■	■	■	■	■	
code **20145889** CHIMNEY FRONT COVER KIT			■	■	■	■	■	■	■	■	

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø60 flue range in plastic (PP) for inside-chimney installation, specific for condensing boilers
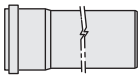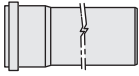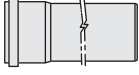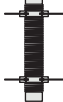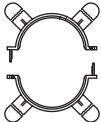
CODE DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R (2)	Exclusive BOILER GREEN HE	Mynute X (2)	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT (1)
code **20145890** Ø60 5 HOSE CLAMPS KIT			■	■	■	■	■	■	■	■	
code **20145892** Ø80-60 CHIMNEY CONNECTION KIT with Ø60 90°BEND			■	■	■	■	■	■	■	■	
code **20046782** CONDENSATE SIPHON KIT			■	■	■	■	■	■	■	■	
code **20144194** Ø60-50 FLUE ADAPTER			■	■	■	■	■	■	■	■	
code **20145897** Ø80-60 FLUE ADAPTER			■	■	■	■	■	■	■	■	

Due to exposition to sunlight, the colour of the material (PP) may be altered.
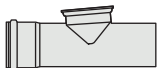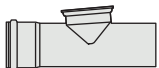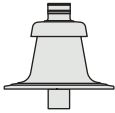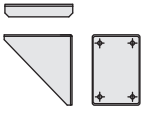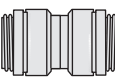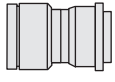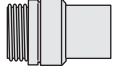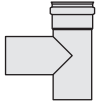
(1)   New CIAO AT 25 kW.

(2)   For Exclusive C/R and Mynute X series connect to the boiler with codes 20129174 or 20129172 in Ø60/100 section and then use the Ø80/125 adapter 20164666.

Condensing
FLUE OPTIONS

Ø80 flue range in plastic (PP) for inside-chimney installation, specific for condensing boilers

CODE / DESCRIPTION		WALL-HUNG BOILERS	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT
code **20164570** Ø80 45°BEND			■		■		■	■	■	■	
code **20164572** Ø80 90°BEND			■		■		■	■	■	■	
code **20164574** Ø80 EXTENSION 500 mm			■		■		■	■	■	■	
code **20164577** Ø80 EXTENSION 1000 mm			■		■		■	■	■	■	
code **20164578** Ø80 EXTENSION 2000 mm			■		■		■	■	■	■	
code **20132509** Ø80 FLEXIBLE EXTENSION (12.5 m) with 8 SPACERS			■		■		■	■	■	■	
code **20164585** Ø60/80 ADAPTER			■		■		■	■	■	■	
code **20164582** Ø60/100 CHIMNEY ADAPTER			■		■		■	■	■	■	
code **20132520** Ø80/125 CHIMNEY ADAPTER			■		■		■	■	■	■	
code **20164664** (*) Ø80 CLAPET KIT IN PP with BUILT-IN CONDENSATE SIPHON for C(10) APPLIANCE									■	■	
code **20132504** Ø80 CHIMNEY SUPPORT KIT			■		■		■	■	■	■	
code **20132505** PIPE SPACERS			■		■		■	■	■	■	

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø80 flue range in plastic (PP) for inside-chimney installation, specific for condensing boilers

CODE / DESCRIPTION		WALL-HUNG BOILERS									
			MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT
code **20132506** Ø80 INSPECTION EXTENSION			■		■		■	■	■	■	
code **20132508** Ø80 ROOF TILE			■		■		■	■	■	■	
code **20145888** SHELF SUPPORT KIT FOR CONDENSATE TRAP			■		■		■	■	■	■	
code **20145889** CHIMNEY FRONT COVER KIT			■		■		■	■	■	■	■
code **20132511** Ø80 FLEXIBLE/FLEXIBLE CONNECTION F/F			■		■		■	■	■	■	■
code **20132512** Ø80 FLEXIBLE/RIGID CONNECTION F			■		■		■	■	■	■	■
code **20132510** Ø80 RIGID/FLEXIBLE CONNECTION M			■		■		■	■	■	■	
code **20046782** CONDENSATE SIPHON KIT			■		■		■	■	■	■	■
code **20163019** Ø80 CONDENSATE TRAP CAP FOR T-CONNECTION (IN ALUMINIUM)			■		■		■	■	■	■	
code **20163018** Ø80 T-CONNECTION (IN ALUMINIUM)			■		■		■	■	■	■	■

Due to exposition to sunlight, the colour of the material (PP) may be altered.

(1) New CIAO AT 25 kW.

(*) Only for 25 C.S.I. model.

Standard-efficiency
FLUE OPTIONS

Beretta

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG BOILERS
FLOOR STANDING BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

Ø80 twin flue system in aluminium for standard-efficiency boilers and water-heaters
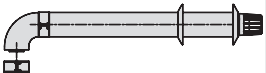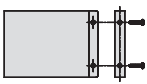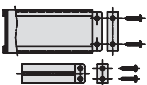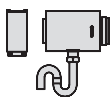
CODE / DESCRIPTION	WALL-HUNG BOILERS	Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II C.S.I.	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code 20162668 — Ø80 TWIN SYSTEM KIT					■	■	■	
code 20162667 — Ø80 TWIN SYSTEM KIT		■	■					■
code 20162666 — FLUE ADAPTER KIT from Ø60/100 to Ø80/80		■	■	■	■	■	■	■
code 20162665 — Ø80 AIR INLET HORIZONTAL TERMINAL		■	■	■	■	■	■	■
code 20162664 — Ø80 HORIZONTAL FLUE TERMINAL		■	■	■	■	■	■	■
code 20162295 — Ø80 90° BEND WITH GASKET		■	■	■	■	■	■	■
code 20162296 — Ø80 45° BEND WITH GASKET		■	■	■	■	■	■	■
code 20162455 — FLUE ADAPTER Ø60/100 TO Ø80 FOR B23/B22 INSTALLATION WITH AIR INLET			■		■	■	■	
code 20162298 — Ø80 EXTENSION (500 mm) with GASKET		■	■	■	■	■	■	■
code 20162299 — Ø80 EXTENSION (1000 mm) with GASKET		■	■	■	■	■	■	■
code 20162300 — Ø80 EXTENSION (1950 mm) with GASKET		■	■	■	■	■	■	■

Ø80 twin flue system in aluminium for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		WALL-HUNG BOILERS	Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II C.S.I.	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code **20162835** Ø80 AIR REGULATION FLANGE KIT			■	■	■	■	■	■	■
code **20162662** Ø80 CONDENSATE TRAP HORIZONTAL			■	■	■	■	■	■	■
code **20162663** Ø80 CONDENSATE TRAP VERTICAL			■	■	■	■	■	■	■
code **20137532** Ø80 SPACERS FOR PIPE (4 pcs. pack)			■	■	■	■	■	■	■

Ø60/100 concentric flue system in AI/Met for standard-efficiency boilers and water-heaters

CODE / DESCRIPTION		WALL-HUNG BOILERS — Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II C.S.I.	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code **20163422** — Ø60/100 VERTICAL TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE		■	■	■	■	■	■	■
code **20163408** — Ø60/100 HORIZONTAL TERMINAL		■	■	■	■	■	■	■
code **20163410** — Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 TO 800 mm		■	■	■	■	■	■	■
code **20163391** — Ø60/100 CONCENTRIC EXTENSION (750 mm)		■	■	■	■	■	■	■
code **20163393** — Ø60/100 CONCENTRIC EXTENSION (1470 mm)		■	■	■	■	■	■	■
code **20163388** (*) — Ø60/100 90° ADAPTER BEND KIT for REPLACEMENT					■ *	■	■ *	
code **20163333** — Ø60/100 90° CONCENTRIC BEND		■	■	■	■	■	■	■
code **20163327** — Ø60/100 45° CONCENTRIC BEND		■	■	■	■	■	■	■
code **20163429** — Ø100 CONNECTION CLIP KIT H 80 mm (4 pcs.)		■	■	■	■	■	■	■
code **20163425** — Ø60/100 CONNECTION CLIP KIT BOILER-FLUE		■	■	■	■	■	■	■
code **20132050** — Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE		■	■	■	■	■	■	■
code **20135579** — Ø125 FLAT ROOF TILE FOR VERTICAL FLUE		■	■	■	■	■	■	■
code **20163400** — Ø60/100 CONDENSATE TRAP HORIZONTAL		■	■	■	■	■	■	■
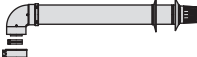
(*)   To be used in case of replacement of old Mynute 24 C.S.I with CIAO S range and with CIAO 24 C.S.I. E, only in case of concentric flue through wall.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø60/100 concentric flue system in Al/Met for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		**WALL-HUNG BOILERS**	Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II C.S.I.	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code **20163403** Ø60/100 CONDENSATE TRAP VERTICAL			■	■	■	■	■	■	■
code **20135584** Ø100 SPACERS FOR PIPE (4 pcs. pack)			■	■	■	■	■	■	■
code **20163430** Ø14 FLANGED SOCKET FOR INSPECTION FOR CONCENTRIC PIPE (2 pcs.)			■	■	■	■	■	■	■

Ø60/100 concentric flue system in AI/PPu for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		WALL-HUNG BOILERS	Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code **20162797** Ø60/100 VERTICAL FLUE TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE			■	■	■	■	■	■	■
code **20162798** Ø60/100 CONCENTRIC HORIZONTAL TERMINAL			■	■	■	■	■	■	■
code **20162799** Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 mm TO 800 mm			■	■	■	■	■	■	■
code **20162793** Ø60/100 CONCENTRIC EXTENSION 500 mm			■	■	■	■	■	■	■
code **20162795** Ø60/100 CONCENTRIC EXTENSION 1000 mm			■	■	■	■	■	■	■
code **20162796** Ø60/100 CONCENTRIC EXTENSION 2000 mm			■	■	■	■	■	■	■
code **20162786** Ø60/100 90° CONCENTRIC BEND			■	■	■	■	■	■	■
code **20162785** Ø60/100 45° CONCENTRIC BEND			■	■	■	■	■	■	■
code **20162790** Ø60/100 90° CONCENTRIC BEND WITH INSPECTION DOOR			■	■	■	■	■	■	■
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE			■	■	■	■	■	■	■
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE			■	■	■	■	■	■	■
code **20135584** Ø100 SPACERS FOR PIPE (4 pcs. pack)			■	■	■	■	■	■	■

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø80/125 concentric flue system in AI/Met for standard-efficiency boilers

CODE / DESCRIPTION		Exclusive C.S.I./R.S.I.	Mynute S 24-28 C.S.I./R.S.I.	Mynute S 35 C.S.I./R.S.I.	Ciao S C.S.I./R.S.I.	Quadra II	Ciao 20-24 C.S.I. e	Ciao 28 C.S.I. e
code **20164216** FLUE ADAPTER FROM Ø60/100 TO Ø80/125 WITH FLUE ANALYSIS POINT		■		■	■	■	■	
code **20164202** Ø80/125 45° CONCENTRIC BEND		■		■	■	■	■	
code **20164206** Ø80/125 90° CONCENTRIC BEND		■		■	■	■	■	
code **20164213** Ø80/125 HORIZONTAL TERMINAL WITH Ø60/100 ADAPTER		■		■	■	■	■	
code **20164215** Ø80/125 VERTICAL TERMINAL WITH Ø60/100 ADAPTER		■		■	■	■	■	
code **20164207** Ø80/125 CONCENTRIC EXTENSION 500 mm		■		■	■	■	■	
code **20164208** Ø80/125 CONCENTRIC EXTENSION 1000 mm		■		■	■	■	■	
code **20164211** Ø80/125 CONCENTRIC EXTENSION 2000 mm		■		■	■	■	■	
code **20164217** SIPHON FOR VERTICAL ADAPTER		■		■	■	■	■	
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE		■		■	■	■	■	
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE		■		■	■	■	■	
code **20164665** Ø80/125 SPACERS (5 pcs.)		■		■	■	■	■	

Note

FLOOR STANDING BOILERS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY
ITEMS

Combi floor-standing boilers with built-in DHW tank, for solar thermal

TOWER GREEN HE S

Beretta

he BERETTA HIGH-EFFICIENCY

A+ SYSTEM

- **TOWER GREEN HE S + solar collectors enables to create a Class A+ System in DHW.**
- **Low Energy, A-Class, auto-modulating system pumps (EEI ≤ 0.23).**
- **10 : 1 modulation ratio, the highest range of modulation.**
- Possibility to manage up to 3 heating zones.
- **Low NOx: Class 6** according to European Directive UNI EN 15502.
- Condensing heat exchanger.
- Suitable for connection with solar thermal collectors.
- 200 lt. built-in DHW double-coil tank.
- Interface with wide display for complete management, that can be removed from the boiler and located inside the house as a control panel.
- Pump for solar circuit as standard.
- Flow-meter on solar circuit as standard.
- 18 lt. expansion vessel for solar circuit as standard.
- Mixing valve as standard.
- 8 lt. expansion vessel for DHW circuit as standard.
- Built-in thermoregulation with external probe supplied as standard.
- Built-in hydraulic separator with one direct zone with low energy pump.
- Display languages: ITALIAN and ENGLISH.
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	
COMBI BOILERS WITH BUILT-IN DHW TANK							
20142492 (*)	NG	TOWER GREEN HE S 35/200 B.S.I.	1900 × 600 × 775	3.50 - 34.60	200 double coil	A	A

(*) Destination countries must be checked before placing the order.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
Specific accessories	
20083258	Additional direct zone
20080038	Additional motorized mixed zone kit
20083259	Remote control panel

CODE	DESCRIPTION
Specific accessories	
20165763	Interface kit for remote control
20084749	DHW recirculation kit with pump
20084750	Taps kit for CH and DHW
20084751	Template kit for installation
Hydraulic accessories	
20097192	Condensate pump
Special accessories	
20085223	Limit thermostat for low temperature installations

TOWER GREEN HE

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING
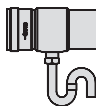
AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

he BERETTA HIGH-EFFICIENCY

- **Low Energy, A-Class, auto-modulating system pumps (EEI ≤ 0.23).**
- **10 : 1 modulation ratio, the highest range of modulation.**
- Suitable for 3 internal zones management.
- **Low NOx: Class 6** according to European Directive UNI EN 15502.
- Condensing heat exchanger.
- Interface with wide display for complete management, that can be removed from the boiler and located inside the house as a control panel.
- Built-in hydraulic separator with one direct zone with low energy pump.
- 120 lt. built-in DHW tank.
- 6 lt. built-in DHW expansion vessel.
- Built-in thermoregulation with external probe supplied as standard.
- Management with direct sliding temperature or with motorized mixing valves on the system zones.
- Display languages: ITALIAN and ENGLISH.
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	
COMBI BOILERS WITH BUILT-IN DHW TANK							
20142493 (*)	NG	TOWER GREEN HE 35/120 B.S.I.	1536 × 600 × 775	3.50 - 34.60	120	A	A

(*) Destination countries must be checked before placing the order.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT **(1)**

CODE	DESCRIPTION
20143659	BeSMART CONTROL **(2)**

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
Specific accessories	
20083258	Additional direct zone
20080038	Additional motorized mixed zone kit
20083259	Remote control panel

CODE	DESCRIPTION
Specific accessories	
20165763	Interface kit for remote control
20084991	DHW recirculation kit with pump
20084750	Taps kit for CH and DHW
20084990	Template kit for installation
Hydraulic accessories	
20097192	Condensate pump
Special accessories	
20085223	Limit thermostat for low temperature installations

TOWER GREEN HE COMPACT

Beretta

he **BERETTA HIGH-EFFICIENCY**

- **Low Energy, A-Class, auto-modulating system pumps (EEI ≤ 0.23).**
- **10 : 1 modulation ratio, the highest range of modulation.**
- **60 lt. built-in DHW tank.**
- **Low NOx: Class 6** according to European Directive UNI EN 15502.
- Condensing heat exchanger.
- 2 lt. expansion vessel for DHW circuit as standard.
- Built-in hydraulic separator with one direct zone with low energy pump.
- Built-in thermoregulation with external probe supplied as standard.
- Interface with wide display for complete management, that can be removed from the boiler and located inside the house as a control panel.
- Display languages: ITALIAN and ENGLISH.
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	
COMBI BOILERS WITH BUILT-IN DHW TANK							
20142494(*)	NG	TOWER GREEN HE 35/60 B.S.I.	850 × 700 × 610	3.50 - 34.60	60	A	A

(*) Destination countries must be checked before placing the order.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
Comfort accessories	
20059641	ALPHA DGT WIRELESS digital room thermostat
20059639	ALPHA DGT digital room thermostat
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat
20063872	ALPHA 7D 7-day digital room thermostat
Special accessories	
20083259	Remote control panel

CODE	DESCRIPTION
Special accessories	
20165763	Interface kit for remote control
20084750	Taps kit for CH and DHW
20092037	Template kit for installation
20085223	Limit thermostat for low temperature installations
Hydraulic accessories	
20097192	Condensate pump

TOWER GREEN HE COMPACT R.S.I.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

he BERETTA HIGH-EFFICIENCY

- **Low Energy, A-Class, auto-modulating system pumps (EEI ≤ 0.23).**
- **10 : 1 modulation ratio, the highest range of modulation.**
- **Low NOx: Class 6** according to European Directive UNI EN 15502.
- Condensing heat exchanger.
- Built-in hydraulic separator with one direct zone with low energy pump.
- Possibility of managing up to 3 internal zones.
- **3-ways valve to manage an optional external DHW tank.**
- Built-in thermoregulation with external probe supplied as standard.
- Interface with wide display for complete management, that can be removed from the boiler and located inside the house as a control panel.
- **Display languages: ITALIAN and ENGLISH.**
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

Premix condensing

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)	ENERGY CLASS	L
HEATING ONLY BOILERS							
20142495(*)	NG	TOWER GREEN HE 35 R.S.I.	850 × 700 × 610	3.50 - 34.60	-	A	-

(*) Destination countries must be checked before placing the order.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION		CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)		20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION		CODE	DESCRIPTION
Comfort accessories			**Special accessories**	
20059641	ALPHA DGT WIRELESS digital room thermostat		20080038	Additional motorized mixed zone kit
20059639	ALPHA DGT digital room thermostat		20165763	Interface kit for remote control
20101748	ALPHA 7D WIRELESS 7-day digital room thermostat		20092037	Template kit for installation
20063872	ALPHA 7D 7-day digital room thermostat		20085223	Limit thermostat for low temperature installations
Special accessories			**Hydraulic accessories**	
20083259	Remote control panel		1220599	Socket probe for DHW tank - 3 m wire
20083258	Additional direct zone		20097192	Condensate pump

Additional zones configurations for TOWER GREEN HE HYBRID S - TOWER GREEN HE HYBRID

ZONES	ADDITIONAL DIRECT ZONE (CODE 20093833)	ADDITIONAL MIXED ZONE (CODE 200938318)
1 direct zone + 1 mixed zone	-	1 pcs
1 direct zone + 2 mixed zones	-	2 pcs
2 direct zones	1 pcs	-
3 direct zones	2 pcs	-
2 direct zones + 1 mixed zone	1 pcs	1 pcs

Additional zones configurations for TOWER GREEN HE - HE S - HE COMPACT R.S.I.

ZONES	ADDITIONAL DIRECT ZONE (CODE 20083258)	ADDITIONAL MIXED ZONE (CODE 20080038)
1 direct zone + 1 mixed zone	-	1 pcs
1 direct zone + 2 mixed zones	-	2 pcs
2 direct zones	1 pcs	-
3 direct zones	2 pcs	-
2 direct zones + 1 mixed zone	1 pcs	1 pcs

- High quality cast-iron heat-exchanger.
- Piezoelectric ignition with ionization flame control.
- Standard efficiency, higher than 90%.
- Compact sizes: it is suitable for the installation in any kind of plant room.
- Thermostatic control board provided with a total shut-off function.
- Can be converted to LPG through LPG kit (supplied as option).
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

Conventional flue

According to the European Directive ERP, the following products are not allowed to be placed on the European market by the manufacturer since 01/08/2015

CODE	GAS	MODEL	DIMENSIONS H×W×D (mm)	OUTPUT (kW)
HEATING ONLY BOILERS				
1650633	NG	NOVELLA 45 RAP*	850×600×720	45.0
1650653	NG	NOVELLA 55 RAP**	850×450×712	55.0
1650673	NG	NOVELLA 64 RAP**	850×450×795	63.5
1650693	NG	NOVELLA 71 RAP***	850×450×878	71.1

* Built-in anti-refouleur kit Ø180 mm.
** In addition to the boilers Novella 55 RAP e Novella 64 RAP it is necessary to order the code 480213: anti-refouleur kit Ø180 mm.
*** In addition to the boiler Novella 71 RAP it is necessary to order the code 480214: anti-refouleur kit Ø200 mm.

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION		CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)		**20143659**	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Other accessories

CODE	DESCRIPTION
Flues accessories	
480213	Anti-refouleur kit Ø 180 mm (for Novella 55 RAP and 64 RAP)
480214	Anti-refouleur kit Ø 200 mm (for Novella 71 RAP)

CODE	DESCRIPTION
LPG accessories	
20185318	LPG transformation kit for NOVELLA 45 RAP
20185315	LPG transformation kit for NOVELLA 55 RAP
20185316	LPG transformation kit for NOVELLA 64 RAP
20185317	LPG transformation kit for NOVELLA 71 RAP

- High quality cast-iron heat-exchanger.
- Electronic ignition with ionization flame control.
- Thermostatic control board provided with a total shut-off function.
- Standard efficiency, higher than 90%.
- Compact sizes: it is suitable for the installation in any kind of plant room.
- Can be converted to LPG through LPG kit (supplied as standard).
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

With cast iron heat exchanger and open combustion chamber

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)
ONLY HEATING BOILERS				
20096450	NG	NOVELLA 18 E	851 x 450 x 700	9.80 - 17.10
20096006	NG	NOVELLA 27 E	851 x 450 x 700	15.20 - 26.00
20088946	NG	NOVELLA 27 E PV	851 x 450 x 725	15.20 - 26.00
20088999	NG	NOVELLA 35 E	851 x 450 x 700	20.10 - 34.20
20089000	NG	NOVELLA 35 E PV	851 x 450 x 725	20.10 - 34.20
20089001	NG	NOVELLA 43 E	851 x 600 x 710	24.70 - 42.10
20089002	NG	NOVELLA 51 E	851 x 600 x 745	29.10 - 49.70
20089003	NG	NOVELLA 61 E	850 x 450 x 724	41.00 - 60.50
20089004	NG	NOVELLA 70 E	850 x 450 x 816	47.30 - 70.00
20089005	NG	NOVELLA 78 E	850 x 450 x 901	53.00 - 78.40

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
20049748	External probe
20053264	Heater probe
20105762	Flue gas extractor 18 kW
20049409	Flue gas extractor 24-27-31 kW
20049840	Flue gas extractor 35-38 kW
20050679	Flue gas extractor 43-45-51 kW

CODE	DESCRIPTION
20017047	Remote control panel REC 08
20049749	Remote alarm kit
20066979	Flue gas extractor ST 61
20067010	Flue gas extractor ST 70-78
20070050	Flue gas extractor ST 78

Recommended storage tanks

CODE	BOLIER	18 E	27 E/PV	35 E/PV	43 E	51 E	61 E	70 E	78 E
20050723	BV 120	■	■	■	■				
20050725	BV 160	■	■	■	■	■			
20104527	AQUAPLUS	■	■	■	■	■			
20105029	AQUAMAX				■	■	■	■	■

Combi floor-standing boilers with built-in DHW tank
FABULA E

ⓝ Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- High quality cast-iron heat-exchanger.
- Electronic ignition with ionization flame control.
- Thermostatic control board provided with a total shut-off function.
- Built-in DHW storage tank.
- Standard efficiency, higher than 90%.
- Compact sizes: it is suitable for the installation in any kind of plant room.
- Can be converted to LPG through LPG kit (supplied as standard).
- **Can be matched with BeSMART Control working as WiFi thermostat (no OTBus communication).**

With cast iron heat exchanger and open combustion chamber

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	INPUT MIN - MAX (kW)	DHW TANK CAPACITY (litres)
COMBI BOILERS WITH BUILT-IN DHW TANK					
20088947	NG	FABULA 27 E/90	1375 x 500 x 772	15.20 - 26.00	90
20089007	NG	FABULA 35 E/90	1375 x 500 x 772	20.10 - 34.20	90
20088949	NG	FABULA 43 E/90	1375 x 600 x 786	24.70 - 42.10	90
20088997	NG	FABULA 35 E/120	1375 x 600 x 776	20.10 - 34.20	120
20088998	NG	FABULA 43 E/120	1466 x 600 x 788	24.70 - 42.10	120

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".

(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Accessories

CODE	DESCRIPTION
20049748	External probe
20049409	Flue gas extractor 24-27-31 kW
20049840	Flue gas extractor 35-38 kW

CODE	DESCRIPTION
20050679	Flue gas extractor 43-45-51 kW
20017047	Remote control panel REC 08
20049749	Remote alarm kit

FLUE - SPLIT Ø80 - CLASS H1

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Plastic (PP) split flue gas exhaust system Ø80 for condensing boilers

CODE / DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20137523 (20027292*) SPLIT SYSTEM KIT Ø80			■	■	■	■	■
20137503 (20027266*) 45° BEND Ø80			■	■	■	■	■
20137506 (20027262*) 90° BEND Ø80			■	■	■	■	■
20137508 (20027219*) EXTENSION Ø80 M-F L=500 mm			■	■	■	■	■
20137509 (20027222*) EXTENSION Ø80 M-F L=1000 mm			■	■	■	■	■
20137511 (20027226*) EXTENSION Ø80 M-F L=2000 mm			■	■	■	■	■
20137517 (20027272*) FLUE GAS EXHAUST TERMINAL Ø80 L=985 mm			■	■	■	■	■
20137515 (20027276*) INTAKE TERMINAL Ø80 L=662 mm			■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.
* Codes of the previous P1 approved range (low head) physically compatible with the new H1 approved range (high head). The mixed use of new and old codes is foreseen only in low head conditions P1.
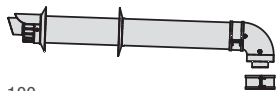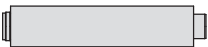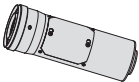
Plastic (PP) split flue gas exhaust system Ø80 for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20137521 (20027300*) VERTICAL CONNECTION KIT from Ø60/100 to Ø80 WITH AIR INTAKE							
20137527 (20027195*) SPLIT SYSTEM KIT B23							
20137532 (1100229*) SPACERS FOR TUBE Ø80 (set of 4 pcs.)			■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.

* Codes of the previous P1 approved range (low head) compatible with the new H1 approved range (high head). The mixed use of new and old codes is foreseen only in low head conditions P1.

FLUE - COAXIAL Ø60/100 - CLASS H1

Plastic (PP/PPu) coaxial tube flue gas exhaust system Ø60/100 for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20132020 (20027212)* VERTICAL FLUE GAS COLLECTOR FOR Ø60-100 WITH STRAIGHT EXTERNAL SECTION Ø80-125			■	■	■	■	■
20132018 (20027555)* WALL-HUNG FLUE GAS COLLECTOR Ø60-100			■	■	■	■	■
20132043 (20027161)* CONCENTRIC EXTENSION 50 cm Ø60-100			■	■	■	■	■
20132044 (20027166)* CONCENTRIC EXTENSION 100 cm Ø60-100			■	■	■	■	■
20132045 (20027179)* CONCENTRIC EXTENSION 200 cm Ø60-100			■	■	■	■	■
20132015 CONCENTRIC EXTENSION Ø60-100 WITH VISUAL INSPECTION			■	■	■	■	■
20132012 (20027192)* 45° CONCENTRIC BEND Ø60-100			■	■	■	■	■
20132040 KIT 2 pcs. 45° CONCENTRIC BEND Ø60-100			■	■	■	■	■
20132013 (20027201)* 90° CONCENTRIC BEND Ø60-100			■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.
* Codes of the previous P1 approved range (low head) compatible with the new H1 approved range (high head). The mixed use of new and old codes is foreseen only in low head conditions P1.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Plastic (PP/PPu) coaxial tube flue gas exhaust system Ø60/100 for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20132050 (1220189; 1100069)* UNIVERSAL TILE FOR VERTICAL EXHAUST WITH SLOPING ROOFS			■	■	■	■	■
20135579 (1220289; 1100059)* UNIVERSAL TILE FOR VERTICAL EXHAUST WITH FLAT ROOFS			■	■	■	■	■
20135584 (1220199; 1100129)* SPACERS FOR TUBE Ø100 (set of 4 pcs.)			■	■	■	■	■
20163032 CLAMP KIT Ø100 PP (package of 5 pcs.) (A)			■	■	■	■	■

(A) Flue that does not require clamps except at the boiler connection; clamps are included in codes 20132020 and 20132018
Material (PP): it may decay over time due to exposure to sunlight.
* Codes of the previous P1 approved range (low head) compatible with the new H1 approved range (high head). The mixed use of new and old codes is foreseen only in low head conditions P1.
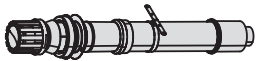
FLUE - COAXIAL Ø80/125

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

PP/aluminium coaxial tube flue gas exhaust system Ø80/125 for condensing boilers
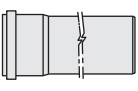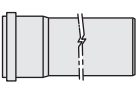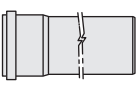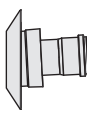
CODE / DESCRIPTION	FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20164651 — 45° CONCENTRIC BEND Ø80-125		■	■	■	■	■
20164653 — 90° CONCENTRIC BEND Ø80-125		■	■	■	■	■
20164657 — CONCENTRIC EXTENSION 50 cm Ø80-125		■	■	■	■	■
20164659 — CONCENTRIC EXTENSION 100 cm Ø80-125		■	■	■	■	■
20164660 — CONCENTRIC EXTENSION 200 cm Ø80-125		■	■	■	■	■
20164655 — 90° CONCENTRIC BEND WITH Ø80-125 INSPECTION		■	■	■	■	■
20164661 — STRAIGHT INSPECTION Ø80-125		■	■	■	■	■

FLUE - COAXIAL Ø80/125

PP/aluminium coaxial tube flue gas exhaust system Ø80/125 for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20164669 VERTICAL TERMINAL Ø80-125 STRAIGHT EXTERNAL SECTION Ø125			■	■	■	■	■
20164673 HORIZONTAL TERMINAL Ø80-125			■	■	■	■	■
20164665 SPACER (5 pcs.) Ø80-125			■	■	■	■	■
20132050 (1220189; 1100069)* UNIVERSAL TILE FOR VERTICAL EXHAUST WITH SLOPING ROOFS			■	■	■	■	■
20135579 (1220289; 1100059)* UNIVERSAL TILE FOR VERTICAL EXHAUST WITH FLAT ROOFS			■	■	■	■	■
20164666 ADAPTER FROM Ø60-100 TO Ø80-125			■	■	■	■	■

* Compatible codes
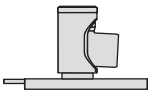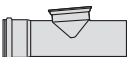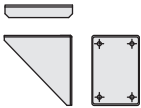
PP plastic system Ø80 for pipework for condensing boilers

CODE DESCRIPTION	FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20164570 45° BEND Ø80		■	■	■	■	■
20164572 90° BEND Ø80		■	■	■	■	■
20164574 EXTENSION Ø80 (500 mm)		■	■	■	■	■
20164577 EXTENSION Ø80 (1000 mm)		■	■	■	■	■
20164578 EXTENSION Ø80 (2000 mm)		■	■	■	■	■
20132520 (1101349)* ELEMENT Ø80/125 FOR CONNECTION TO THE FLUE GAS DUCT		■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.
* Compatible codes

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
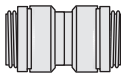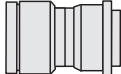
PP plastic system Ø80 for pipework for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20132504 (1101389)* CHIMNEY SUPPORT KIT Ø80			■	■	■	■	■
20132505 TUBE SPACERS IN THE FLUE GAS DUCT			■	■	■	■	■
20132506 (1101409)* STRAIGHT INSPECTION STUB PIPE Ø80			■	■	■	■	■
20132508 (1101419)* CHIMNEY COVER Ø80			■	■	■	■	■
20145888 (1101519)* SUPPORT BRACKET KIT FOR CONDENSATE COLLECTION			■	■	■	■	■
20145889 CLOSING PANEL KIT FOR FLUE GAS DUCT			■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.
* Compatible codes

FLUE - PIPEWORK Ø80

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

PP plastic system Ø80 for pipework for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20132511 (1101449)* FLEXIBLE/FLEXIBLE CONNECTION Ø80 F/F			▪	▪	▪	▪	▪
20132512 (1101459)* FLEXIBLE/RIGID CONNECTION Ø80 F			▪	▪	▪	▪	▪
20046782 EXHAUST TRAP KIT			▪	▪	▪	▪	▪
20163018 T-SHAPED CONNECTION KIT Ø80			▪	▪	▪	▪	▪
20163019 T-SHAPED CONNECTION CLOSING KIT Ø80 FOR CONDENSATE DRAIN			▪	▪	▪	▪	▪

Material (PP): it may decay over time due to exposure to sunlight.
* Compatible codes

PP plastic system Ø80 for pipework for condensing boilers

CODE DESCRIPTION		FLOOR STANDING	Tower GREEN HE	Tower GREEN HE S	Tower GREEN HE COMPACT	Tower GREEN HE HYBRID	Tower GREEN HE HYBRID S
20164585 ADAPTER Ø60/80			■	■	■	■	■
20132509 (1101429)* FLEXIBLE EXTENSION Ø80 (12.5 m) WITH 8 SPACERS			■	■	■	■	■
20132510 (1101439)* RIGID/FLEXIBLE CONNECTION Ø80 M			■	■	■	■	■

Material (PP): it may decay over time due to exposure to sunlight.
* Compatible codes

Notes

WATER-HEATERS »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- **Heat pump for domestic hot water production, wall mounted.**
- Heat pump operating air temp. from -7°C to 35°C (ACQUAZENIT E 80 – E 120).
- Heat pump operating air temp. from +7°C to 35°C (ACQUAZENIT 80 – 120).
- **Combination of heat pump and back up electric heating** (electric heater included).
- Rotation compressor on heat pump side.
- Heat pump condenser wraps around DHW tank.
- Legionella control function.
- Built-in enamelled DHW tank with magnesium anode.
- High insulation grade of the tank for low heat losses.
- Easy and fast installation.
- DHW temperature production up to 75°C.
- TURBO mode for fast hot water production.
- Diagnostic, alarms and hot water storage information.
- Large display with touch screen.
- Advanced electronic control with timing, temperatures and operating mode selection.

Wall-hung DHW heat pumps

ErP

CODE	DESCRIPTION	DIMENSIONS H X L X D (mm)	HEATING CAPACITY (kW)	C.O.P. (50°)[1]	ENERGY CLASS M
20075566	ACQUAZENIT 80	1197 × 506 x 533	2.35	3.10	A+
20075568	ACQUAZENIT 120	1497 × 506 x 533	2.35	3.10	A+
20075569	ACQUAZENIT E 80	1197 × 506 x 533	2.35	3.10	A+
20075571	ACQUAZENIT E 120	1497 × 506 x 533	2.35	3.10	A+

[1] T_{air} 15°C; T_{water} 10-55°C (EN 16147)

Note: Before installation, check the compatibility of weight and dimensions with the room and with the fixing system.

DHW wall-hung heat pumps
ACQUAZENIT
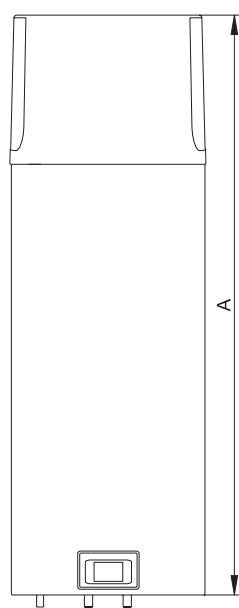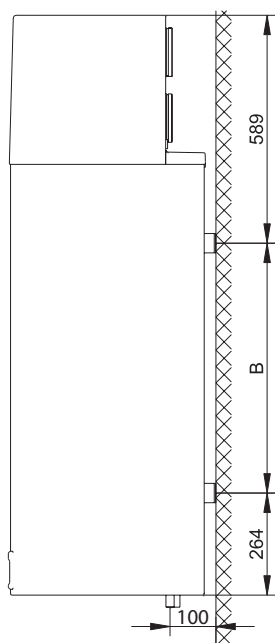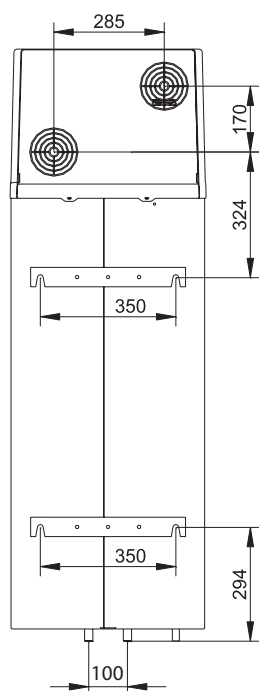
	80	**120**	
A	1197	1497	mm
B	345	645	mm
Net weight	58	65	kg
Weight with water	138	188	kg
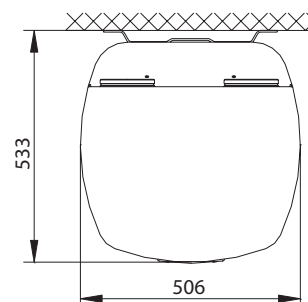
Technical specifications

DESCRIPTION		80	E80	120	E120
Tank capacity	l	80		120	
Rated pressure	bar	6.00			
Anti-corrosion protection of tank		enamelled / Magnesium anode			
Insulation thickness	mm	40 - 85			
Degree of protection		IP 24			
Max absorbed power	W	2350			
Power supply	V-Hz	230-50			
Number and electric heaters capacity	W	2 X 1000			
Electrical protection	A	16			
Water temperature set	°C	55			
Max water temperature (HP / electric heater)	°C	55 / 75			
Legionella control cycle	°C	70			
Air operating limits	°C	7	-7	7	-7
Refrigerant type		R134a			
Refrigerant charge	g	490	540	490	540
Heating time [1]	h:min	4:40		6:40	
Energy consumption during heating [1]	kW	0.99		1.41	
Type of measured cycle of emissions		M			
Energy consumption in the selected cycle of emissions [1]	kW	2.04		2.08	
COPDHW in the selected cycle of emissions [1]		3.10			
Heating time [2]	h:min	5:20		8:41	
Energy consumption during heating [2]	kW	1.12		1.78	
Energy consumption in the selected cycle emissions [2]	kW	2.45		2.51	
COPDHW in the selected cycle of emissions [2]		2.65		2.61	
Max available water (40 °C)	l	90		142	
Power INPUT in standby mode (according to EN16147)	W	19		27	
Sound power	dB (A)	51			
Sound pressure at 1m	dB (A)	39.5			
Air Flow	m³/h	100 - 230			
Max available pressure drop in the pipeline (volumetric flow rate of air 100 m³/h)	Pa	95			

[1] Tair 15 °C; Twater 10 - 55°C (EN 16147)

[2] Tair 7 °C; Twater 10 - 55°C (EN 16147)

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HP-E 260 ACS

Beretta

- **Air-to-water heat pump for DHW production**
- 3 models available:
    - HP 260 ACS model with only heat pump.
    - HP 260 ACS S: heat pump with an auxiliary coil for solar panels back-up.
    - HP 260 ACS SC: heat pump with two auxiliary coils for both boiler and solar panels back up.
- Condenser externally wrapped to the boiler free from fouling and gas-water contamination.
- Tank in steel with two layers vitrification.
- Thermal insulation with injected polyurethane with high thickness.
- External coating in ABS.
- R134a refrigerant charger.
- Built-in double-enamelled DHW tank (260 l capacity) with magnesium anode.
- Electrical resistance provided as standard (1.5kW).
- Legionella cycle management through parameters (up to 70°C).
- Outdoor temperature probe for automatic insertion of the resistance with temperature not favorable to the heat pump.
- Working range: -5°C to +32°C.
- BOOSTER function (only in AUTO mode).
- Remote ON/OFF for complete unit (Timer) and for electrical heater.

DHW floor-standing heat pumps

ErP

CODE	DESCRIPTION	DIMENSIONS H x Ø (mm)	HEATING CAPACITY (kW)	C.O.P.[2]	ENERGY CLASS L
20125646	HP-E 260 ACS (a)(b)	1845 × 660	1.95	2.92	A⁺
20125647	HP-E 260 ACS S (a)(b)(c)	1845 × 660	1.95	2.92	A⁺
20125648	HP-E 260 ACS SC (a)(c)	1845 × 660	1.95	2.92	A⁺

(a) On all versions, a thermostatic mixing valve is needed to reduce the DHW temperature that, without it, in particular with a solar coil, can reach dangerous levels.
(b) This model allows to integrate in addition a combi boiler as back-up through a solar diverter mixing valve (code 20035644).
(c) For the control of the solar circuit it is needed a specific controller to be chosen among the different available accessories.
(2) Value obtained on the whole drawing cycle (load profile L), at a reference temperature of 54°C, according to EN16147.

Accessories

CODE	DESCRIPTION
20001492	Thermostatic mixing valve 1" with 3/4" adapter
20035644	Solar diverter valve

CODE	DESCRIPTION
20120499	Solar control box EVOSOL with probes
4383052	18L expansion vessel*

* Can be used on solar thermal, heating and DHW circuit.

DHW floor-standing heat pumps
HP-E 260 ACS

HP-E 260 ACS

Ø660 · 425 · Ø160 · Ø160 · 45 · 1845 · L · A · C + E · M · F · G

HP-E 260 ACS S

Ø660 · 425 · Ø160 · Ø160 · 45 · 1845 · L · A · C + E · M · H · I + F · G

HP-E 260 ACS SC

Ø660 · 425 · Ø160 · Ø160 · 45 · 1845 · L · A · B · C + E · D · M · H · I + F · G
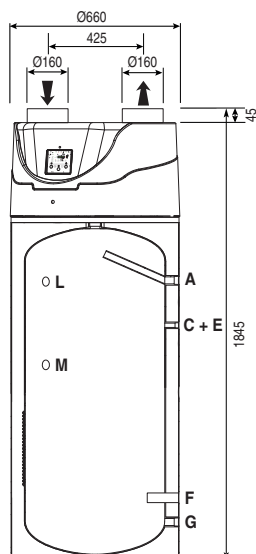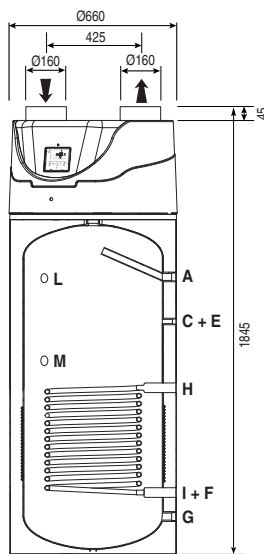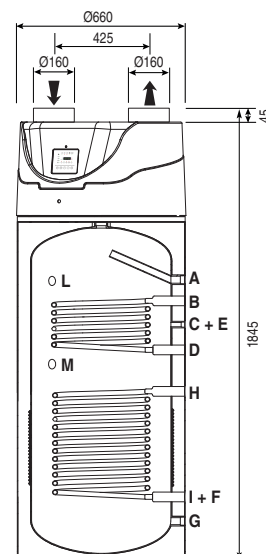
Technical specifications

		HP ACS	HP ACS S	HP ACS SC
Tank capacity	l	273	268	265
Coil surface	m²	-	1.5	0.6/1.5
DHW coil flow [6]	m³/h	-	1.1	0.4/1.1
Max working pressure tank	bar		6	
Max working pressure auxiliary coil	bar	-	6	6
Max working pressure cooling system	bar		25	
Power supply	V/Ph/Hz		230/1/50	
Max water temperature	°C		60	
Ambient Temperature (min/max)	°C		8[3]/32 (-5[3]/32)	
Electric heater capacity	W		1500	
Heating capacity [1]	W		1950	
Power input (average) [1]	W		488	
Power input (stand-by)	W		43	
Power efficiency WH [5]	%		124	
Load profile			L	
Energy class			A+	
Refrigerant type	type		R134A	
Refrigerant charge	g		1500	
Noise level [4]	dB(A)		49	
C.O.P. [2]			2.92	
Air flow	m³/h		450	
Available pressure head	Pa		80	
Max duct length	m		10	
Net weight	kg	104	119	137
Transport weight	kg	122	137	155

[1] T_{air} 15°C - T_{water} 10-54°C, relative humidity 71% (EN 16147).

[2] Value obtained on the whole drawing cycle (load profile L), at a reference temperature of 54°C, according to EN16147.

[4] At 1 meter distance (free field not ducted).

[5] European Directive 814/2013.

[6] T_{water} INLET 10/45°C - T_{water} OUTLET 80/60°C (DIN 4708).

KEY	DESCRIPTION	
A	Outlet hot water	Ø 1" F
B	Outlet heating	Ø 1" F
E	Recirculation	Ø 1" F
D	Inlet heating	Ø 1" F
H	Outlet solar	Ø 1" F

KEY	DESCRIPTION	
I	Inlet solar	Ø 1" F
G	Inlet cold water	Ø 1" F
M	Electric heater	Ø 1" 1/4 F
L	Anode	Ø 1" 1/4 F
C - F	Well probe	

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- Instantaneous, conventional flue water heater **with dedicated versions for natural gas and LPG.**
- **Battery ignition** (2 x 1.5V batteries supplied as standard).
- High DHW load profile (**XL on the 14 lt model**).
- **Abundant production of domestic hot water** at Δt 25°C of 11 and 14 liters/min.
- **Innovative electronic gas valve without membrane for speedy maintenance.**
- **New self-adapting system with thermostatic device.**
- **High output modulation and domestic hot water flow rate.**
- **Electronic reset from the user interface of the domestic hot water and flues thermostats**, in case of anomalies (RESET button).
- Innovative **interface with back-lit display**, 3 buttons and a LED for battery replacement.

LOW NOx

INTERAXES AND HYDRAULIC FITTINGS POSITIONING

DHW (O)   Gas (G)   DCW (I)

A   B

	A	B
Lx 11	90	90
Lx 14	123.5	123.5

Conventional flue

ErP

IONISATION FLAME - BATTERY IGNITION

CODE	GAS	MODEL	DIMENSIONS [1] H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 30 °C)	ENERGY CLASS
20149819	NG	FONTE Lx 11	675 × 350 × 230	19.43	9.3	A M*
20149820	LPG	FONTE Lx 11	675 × 350 × 230	19.43	9.3	A M*
20149825	NG	FONTE Lx 14	675 × 400 × 230	24.36	11.6	A L*
20149826	LPG	FONTE Lx 14	675 × 400 × 230	24.36	11.6	A L*

* Load profile.
(1) Dimensions without flues.
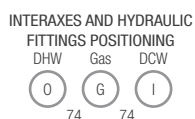
LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING
DHW · Gas · DCW
O · G · I
74 · 74

- **New gas water heaters for indoor installation.**
- **Low Nox** range according to EN 814-2013.
  Low Nox value < 56 mg/kWh, via cooled burner.
- Air-gas combustion, with 3:1 modulation ratio.
- A wide range of models of 11, 13 and 17 lt,
  available both as NG and LPG versions.
- New back-lit display with icons, 40x30 mm, with four push-buttons.
- New electronics with innovative performance.
- New aesthetics lines, in accordance with the wall-hung boilers style.
- Frost protection kit for outdoor installation with resistance
  (down to -10°C).
- Ø60 and Ø80 air-inlet for the models 11 and 13 lt.
- Ø60/100 flue exit.

Room-sealed

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 30 °C)	ENERGY CLASS
IONISATION FLAME - ELECTRONIC IGNITION						
20143031	NG	IDRABAGNO Lx 11	642 x 340 x 237	19.89	9.5	A · M*
20143032	LPG	IDRABAGNO Lx 11	642 x 340 x 237	19.89	9.5	A · M*
20143035	NG	IDRABAGNO Lx 13	642 x 340 x 237	22.45	10.7	A · L*
20143036	LPG	IDRABAGNO Lx 13	642 x 340 x 237	22.45	10.7	A · L*
20143037	NG	IDRABAGNO Lx 17	640 x 400 x 246	27.60	13.2	A · XL*
20143038	LPG	IDRABAGNO Lx 17	640 x 400 x 246	27.60	13.2	A · XL*

* Load profile.

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
Specific accessories		20162666	Flue adapter kit from Ø60/100 to Ø80-80
1100499	Hydraulic taps	20122792	Ø60/100 Adapter bend kit for replacement (for 11-13 model)
1100519	Gas straight tap	20162798	Ø60/100 concentric horizontal terminal
1100509	Gas tap 3/4" right-angle	20155911	Dummy for Idrabagno Lx 11
20148036	Frost protection resistances kit	20155581	LPG gas transformation kit for Idrabagno Lx 11
20162668	Ø80 twin system kit (for 11-13 models)	20155583	LPG gas transformation kit for Idrabagno Lx 13
20162667	Ø80 twin system kit (for 17 model)	20157837	LPG gas transformation kit for Idrabagno Lx 17

Note: For the installation of IDRABAGNO Lx under low temperature conditions (down to -10°C), it is available the frost protection kit (code 20148036).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

DHW	Gas	DCW
O	G	I
	74	74
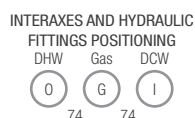
- **New gas water heaters for indoor installation.**
- **Low Nox** range according to EN 814-2013.
  Low Nox value < 56 mg/kWh, via cooled burner.
- Air-gas combustion, with 1:3 modulation ratio.
- Available both as NG and LPG versions.
- New back-lit display with icons, 40x30 mm, with four push-buttons.
- New electronics with innovative performance.
- New aesthetics lines, in accordance with the wall-hung boilers style.
- **Flexible pipes and water tap supplied as standard.**
- Frost protection kit for outdoor installation with resistance.
- Ø60 and Ø80 air-inlet.
- Ø60/100 flue exit.

Room-sealed

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 30 °C)	ENERGY CLASS
IONISATION FLAME - ELECTRONIC IGNITION WITH FLEXIBLE PIPES						
20143033	NG	IDRABAGNO Lx 11 FLEX	642 x 340 x 237	19.89	9,5	A M*
20143034	LPG	IDRABAGNO Lx 11 FLEX	642 x 340 x 237	19.89	9,5	A M*

* Load profile.

Accessories

CODE	DESCRIPTION
Specific accessories	
1100499	Hydraulic taps
1100519	Gas straight tap
1100509	Gas tap 3/4” right-angle
20148036	Frost protection resistances kit
20162668	Ø80 twin system kit

CODE	DESCRIPTION
20162666	Flue adapter kit (from Ø60/100 to Ø80-80)
20122792	Ø60/100 Adapter bend kit for replacement
20162798	Ø60/100 concentric horizontal terminal
20155911	Dummy for Idrabagno Lx 11
20155581	LPG gas transformation kit for Idrabagno LX 11

Note: For the installation of IDRABAGNO Lx under low temperature conditions (down to -10°C), it is available the frost protection kit (code 20148036).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Instantaneous gas water-heaters for outdoor installation

IDRABALCONY Lx

Beretta

LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

DHW	Gas	DCW
O	G	I
	74	74

- **New instantaneuos gas water-heaters for outdoor installation - NO FLUES**.
- **Low Nox** range according to EN 814-2013.
  Low Nox value < 56 mg/kWh, via cooled burner.
- Air-gas combustion, with 3:1 modulation ratio.
- A range of three models of 11, 13 and 17 lt., available as NG versions.
- **New back-lit display with icons**, 40x30 mm, with four push-buttons.
- New electronics with innovative performance.
- New aesthetics lines, in accordance with the wall-hung boilers style.
- Same dimensions as previous versions.
- Wi-Fi ready via specific kit available as option.

Room-sealed / NO FLUES

ErP

CODE	GAS	MODEL	DIMENSIONS H × W × D (mm)	OUTPUT (kW)	DHW PRODUCTION (l/min. - Δt 30 °C)	ENERGY CLASS
IONISATION FLAME - ELECTRONIC IGNITION						
20144193	NG	IDRABALCONY Lx 11	699 x 408 x 260	19.71	9.4	A M*
20144195	LPG	IDRABALCONY Lx 11	699 x 408 x 260	19.71	9.4	A M*
20144197	NG	IDRABALCONY Lx 13	699 x 408 x 260	22.93	11.0	A L*
20144199	LPG	IDRABALCONY Lx 13	699 x 408 x 260	22.93	11.0	A L*
20144230	NG	IDRABALCONY Lx 17	699 x 408 x 260	27.63	13.2	A XL*
20144231	LPG	IDRABALCONY Lx 17	699 x 408 x 260	27.63	13.2	A XL*

* Load profile.

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
Specific accessories		20155581	LPG gas transformation kit for Idrabagno Lx 11
1100499	Hydraulic taps	20155583	LPG gas transformation kit for Idrabagno Lx 13
1100519	Gas straight tap	20157837	LPG gas transformation kit for Idrabagno Lx 17
1100509	Gas tap ¾" right-angle		

Note: IDRABALCONY Lx is supplied as standard with an automatic frost protection kit that protects the DHW circuit in case of low temperatures: down to -10°C on the 11/13 lt.models and down to -7°C on the 17 lt. model.

Ø80 twin flue system in aluminium for standard-efficiency boilers and water-heaters
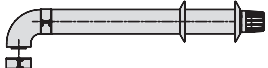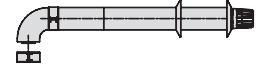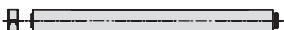
CODE DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13	Idrabagno Lx 17
code **20162668** Ø80 TWIN SYSTEM KIT			■	
code **20162667** Ø80 TWIN SYSTEM KIT				■
code **20162666** FLUE ADAPTER KIT from Ø60/100 to Ø80-80			■	■
code **20162665** Ø80 AIR INLET HORIZONTAL TERMINAL			■	■
code **20162664** Ø80 HORIZONTAL FLUE TERMINAL			■	■
code **20162295** Ø80 90° BEND WITH GASKET			■	■
code **20162296** Ø80 45° BEND WITH GASKET			■	■

Ø80 twin flue system in aluminium for standard-efficiency boilers and water-heaters

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø80 twin flue system in aluminium for standard-efficiency boilers and water-heaters

CODE / DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13	Idrabagno Lx 17
code **20162298** Ø80 EXTENSION (500 mm) with GASKET			■	■
code **20162299** Ø80 EXTENSION (1000 mm) with GASKET			■	■
code **20162300** Ø80 EXTENSION (1950 mm) with GASKET			■	■
code **20162835** Ø80 AIR REGULATION FLANGE KIT			■	■
code **20137532** Ø80 SPACERS FOR PIPE (4 pcs. pack)			■	■
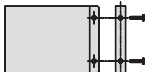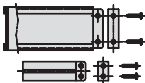
Ø60/100 concentric flue system in Al/Met for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13
code **20163422** Ø60/100 VERTICAL TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE			■
code **20163408** Ø60/100 HORIZONTAL TERMINAL			■
code **20163410** Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 TO 800 mm			■
code **20163391** Ø60/100 CONCENTRIC EXTENSION (750 mm)			■
code **20163393** Ø60/100 CONCENTRIC EXTENSION (1470 mm)			■
code **20122792** * Ø60/100 90°ADAPTER BEND KIT for REPLACEMENT			■ *
code **20163333** Ø60/100 90° CONCENTRIC BEND			■
code **20163327** Ø60/100 45° CONCENTRIC BEND			■

* To be used in case of replacement of water heaters Idrabagno 11 and 13 ESI, in case of rear flues.

Ø60/100 concentric flue system in Al/Met for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13
code **20163429** Ø100 CONNECTION CLIP KIT H 80 mm (4 pcs.)			■
code **20163425** Ø60/100 CONNECTION CLIP KIT BOILER-FLUE			■
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE			■
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE			■
code **20135584** Ø100 SPACERS FOR PIPE (4 pcs. pack)			■
code **20163430** Ø14 FLANGED SOCKET FOR INSPECTION FOR CONCENTRIC PIPE (2 pcs.)			■

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Ø60/100 concentric flue system in Al/PPu for standard-efficiency boilers and water-heaters

CODE DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13
code **20162797** Ø60/100 VERTICAL FLUE TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE			■
code **20162798** Ø60/100 CONCENTRIC HORIZONTAL TERMINAL			■
code **20162799** Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 mm TO 800 mm			■
code **20162793** Ø60/100 CONCENTRIC EXTENSION 500 mm			■
code **20162795** Ø60/100 CONCENTRIC EXTENSION 1000 mm			■
code **20162796** Ø60/100 CONCENTRIC EXTENSION 2000 mm			■
code **20162786** Ø60/100 90° CONCENTRIC BEND			■
code **20162785** Ø60/100 45° CONCENTRIC BEND			■

Ø60/100 concentric flue system in Al/PPu for standard-efficiency boilers and water-heaters

CODE / DESCRIPTION		WATER-HEATERS	Idrabagno Lx 11-13
code **20066967** Ø60/100 90° CONCENTRIC BEND - FOR BOILER CONNECTION			■
code **20162790** Ø60/100 90° CONCENTRIC BEND WITH INSPECTION DOOR			■
code **20066969** Ø60/100 90° CONCENTRIC BEND WITH INSPECTION DOOR - FOR BOILER CONNECTION			■
code **20124577** Ø100 CONNECTION CLIP KIT (5 pcs)			■
code **20132050** Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE			■
code **20135579** Ø125 FLAT ROOF TILE FOR VERTICAL FLUE			■
code **20135584** Ø100 SPACERS FOR PIPE (4 pcs. pack)			■

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SOLAR THERMAL AND CYLINDERS »

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY
ITEMS
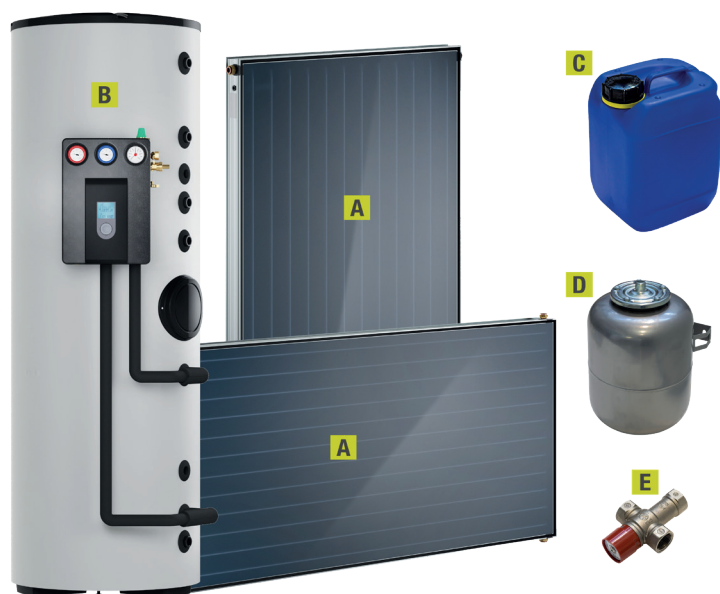
A SCF-25/4B collector with sealed aluminium frame - 2.5 m²
B IDRA DS FI (200 lt, 300 lt, 430 lt) double coil cylinder with pre-installed flow/return hydraulic group, featuring a Low Energy modulating circulator, and EVOSOL control box
C Glycol
D Solar expansion vessel
E 3/4" thermostatic mixing valve

Systems for flat and pitched roof - Brackets not included

ErP

SYSTEMS WITH DOUBLE-COIL HEATER

CODE	MODEL	NUMBER OF COLLECTORS	CYLINDER CAPACITY (litres)	COLLECTORS DIMENSIONS H X L (mm)	COLLECTORS TOTAL AREA (m²)
20184357	SCF-25/4B 200/1	1	208 double coil [1]	2004x1195	2.30
20184358	SCF-25/4B 300/2	2	301 double coil [1]	2004x2390	4.60
20184618	SCF-25/4B 400/3	3	430 double coil [1]	2004x3585	6.90

(1) Double-coil heater with hydraulic unit complete with M/R hydraulic unit.

To complete the installation it is necessary to purchase the complete bracket kits, choosing them according to the number of collectors, from slanting roof bracket kit, undertile roof bracket kit for slanting roof and flat roof bracket kit.

Forced circulation systems

SCF-25/4B SYSTEM - COMPLETE BRACKET KITS, FOR VERTICAL ASSEMBLY

Beretta

Slanting roof brackets - complete kits for SCF-25/4B vertical assembly systems
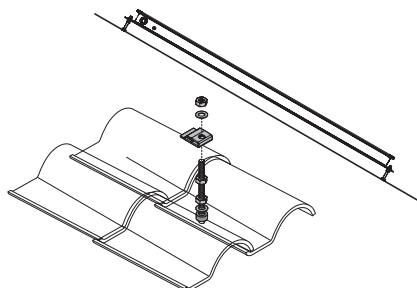
CODE	DESCRIPTION
20104603	Brackets kit for PITCHED ROOF - 1 SCF-25/4B collector
20104604	Brackets kit for PITCHED ROOF - 2 SCF-25/4B collectors
20104605	Brackets kit for PITCHED ROOF - 3 SCF-25/4B collector

Undertile brackets for slanting roof - complete kits for SCF-25/4B vertical assembly systems
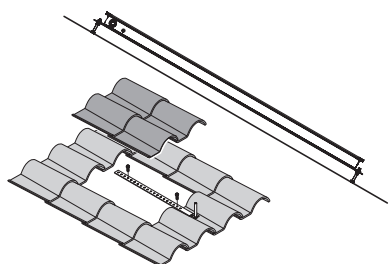
CODE	DESCRIPTION
20104630	Undertile brackets kit for PITCHED ROOF - 1 SCF-25/4B collector
20104632	Undertile brackets kit for PITCHED ROOF - 2 SCF-25/4B collectors
20104634	Undertile brackets kit for PITCHED ROOF - 3 SCF-25/4B collector

Flat roof brackets - complete kits for SCF-25/4B vertical assembly systems
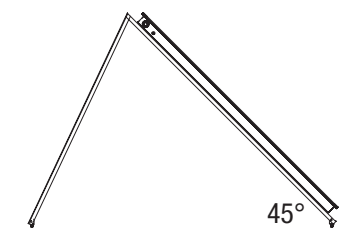
CODE	DESCRIPTION
20104624	Brackets kit for FLAT ROOF - 1 SCF-25/4B collector
20104625	Brackets kit for FLAT ROOF - 2 SCF-25/4B collectors
20104626	Brackets kit for FLAT ROOF - 3 SCF-25/4B collector

End connection accessories code 20132142 containing Ø22 weld-in connections to be placed at the ends of collectors and crimped connections to be placed at the outlet of the hydraulic unit/heater to connect to copper tubes are available separately. Otherwise, it is possible to use code 20108734 "female end connection kit" to have female connections at both ends of the collector. Refer to the SCF-25/4B collector page for composition of bracket kits.

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SCF-25/4B SYSTEM - COMPLETE BRACKET KITS, FOR VERTICAL ASSEMBLY

HORIZONTAL ASSEMBLY

Slanting roof brackets - complete kits for SCF-25/4B horizontal assembly systems
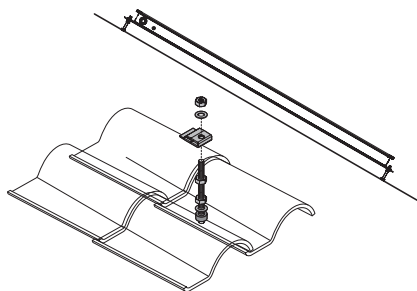
CODE	DESCRIPTION
20104698	Kit staffe TETTO INCLINATO 1 collettore orizz. SCF-25/4B
20104699	Kit staffe TETTO INCLINATO 2 collettori orizz. SCF-25/4B
20104701	Kit staffe TETTO INCLINATO 3 collettori orizz. SCF-25/4B

HORIZONTAL ASSEMBLY

Undertile brackets for slanting roof - complete kits for SCF-25/4B horizontal assembly systems

CODE	DESCRIPTION
20104741	Undertile bracket kit for SLANTING ROOF 1 horizontal collector SCF-25/4B
20104742	Undertile bracket kit for SLANTING ROOF 2 horizontal collectors SCF-25/4B
20104743	Undertile bracket kit for SLANTING ROOF 3 horizontal collectors SCF-25/4B

HORIZONTAL ASSEMBLY

Flat roof brackets - complete kits for SCF-25/4B horizontal assembly systems

CODE	DESCRIPTION
20104730	Bracket kit for FLAT ROOF 1 horizontal collector SCF-25/4B
20104732	Bracket kit for FLAT ROOF 2 horizontal collectors SCF-25/4B
20104734	Bracket kit for FLAT ROOF 3 horizontal collectors SCF-25/4B

End connection accessories code 20132142 containing Ø22 weld-in connections to be placed at the ends of collectors and crimped connections to be placed at the outlet of the hydraulic unit/heater to connect to copper tubes are available separately. Otherwise, it is possible to use code 20108734 "female end connection kit" to have female connections at both ends of the collector. Refer to the SCF-25/4B collector page for composition of bracket kits.

SCF-25/4B SYSTEM - SYSTEM COMPOSITION

Beretta

SCF-25/4B 200/1 (cod. 20184357)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20184340	SCF-25/4B collector
B	1	20119552	IDRA DS 200 FI (B class) cylinder
C	1	4383059	10 kg glycol
D	1	4383052	18 lt expansion vessel
E	1	1150529	3/4" thermostatic mixing valve

SCF-25/4B 300/2 (cod. 20184358)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20184341	2 pcs. of SCF-25/4B collector (in 1 package)
B	1	20119553	IDRA DS 300 FI (B class) cylinder
C	1	4383059	10 kg glycol
D	1	4383052	18 lt expansion vessel
E	1	1150529	3/4" thermostatic mixing valve

SCF-25/4B 400/3 (cod. 20184618)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20184340	SCF-25/4B collector
A	1	20184341	2 pcs. of SCF-25/4B collector (in 1 package)
B	1	20119554	IDRA DS 430 FI (B class) cylinder
C	1	4383085	5 kg glycol
C	1	4383059	10 kg glycol
D	1	4383053	24 lt expansion vessel
E	1	1150529	3/4" thermostatic mixing valve

To complete the installation it is necessary to purchase the complete bracket kits, choosing them according to the number of collectors, from slanting roof kit, undertile roof bracket kit for slanting roof and flat roof kit.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

A SCF-20B collector with sealed aluminium frame - 2 m²
B EVOSOL solar control box
C IDRA cylinder with increased coil surface
D Solar hydraulic return group for wall-mounting installation with circulator suitable for PVM and ON/OFF management
E Glycol
F Solar expansion vessel
G 3/4" thermostatic mixing valve

Systems for flat and pitched roof - Brackets not included

ErP

CODE	MODEL	NUMBER OF COLLECTORS	CYLINDER CAPACITY (litres)	COLLECTORS DIMENSIONS H X L (mm)	COLLECTORS TOTAL AREA (m2)
SYSTEMS WITH DOUBLE COIL CYLINDER					
20131683	SCF-20/4B 200/1	1	208 double coil	1818 x 1097	1.91
20131684	SCF-20/4B 300/2	2	301 double coil	1818 x 2194	3.82
20131685	SCF-20/4B 400/3	3	442 double coil	1818 x 3291	5.73
20131688	SCF-20/4B 500/4	4	551 double coil	1818 x 4388	7.64

To complete the installation it is necessary to buy, according to the number of collectors and to the kind of roof and installation, complete brackets kits for flat or pitched roof or undertile brackets kits.

SISTEMA SCF-20/4B - BRACKETS COMPLETE KITS
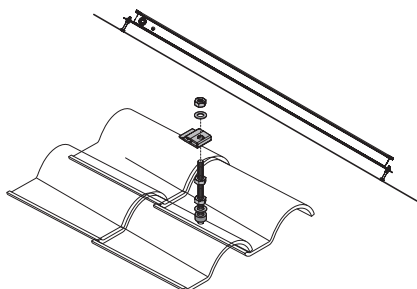
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Brackets for PITCHED ROOF - complete kits for SCF-20/4B systems

CODE	DESCRIPTION
20104652	Bracket 1 collector in //
20104654	Bracket 2 collectors in //
20104656	Bracket 3 collectors in //
20104659	Bracket 4 collectors in //

Undertile brackets for PITCHED ROOF - complete kits for SCF-20/4B systems
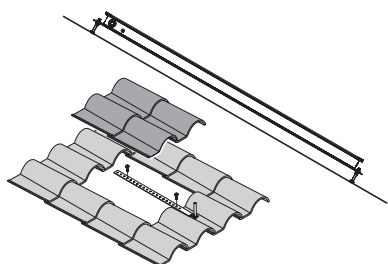
CODE	DESCRIPTION
20104685	Undertile bracket 1 collector
20104686	Undertile bracket 2 collectors
20104687	Undertile bracket 3 collectors
20104688	Undertile bracket 4 collectors

Flat roof brackets - complete kits for SCF-20/4B systems
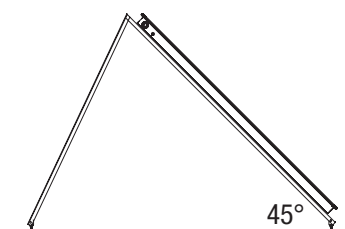
45°

CODE	DESCRIPTION
20104677	Bracket 1 collector at 45° for flat roof
20104679	Bracket 2 collectors at 45° for flat roof
20104680	Bracket 3 collectors at 45° for flat roof
20104682	Bracket 4 collectors at 45° for flat roof

End connection accessories code 20132142 containing ø22 weld-in connections to be placed at the ends of collectors and crimped connections to be placed at the outlet of the hydraulic unit/heater to connect to copper tubes are available separately. Otherwise, it is possible to use code 20108734 "female end connection kit" to have a female connection at both ends of the collector. Refer to the SCF-20B collector page for composition of bracket kits.

The ending fittings for the connection of Ø 22 copper pipes (code 20014661), containing weld-on fittings, to be put at the collector inlet-outlet, and screw-on fittings, to be put at the inlet/outlet of hydraulic group/solar cylinder, are available separately. For the composition of brackets kit refer to SCF-20B dedicated section.
The ending fittings for the connection of stainless-steel flexible pipes containing weld-on fittings, to be put at the collector inlet-outlet, and screw-on fittings, to be put at the inlet/outlet of hydraulic group/solar cylinder, are available separately. For the composition of brackets kit refer to SCF-20B dedicated section. As an alternative, it is possible to use the code 20108734 "female ending fitting kit" in order to have, at the two collectors ends, a female connection. For the composition of brackets kit refer to SCF-25B dedicated section.

SISTEMA SCF-20/4B - SYSTEMS COMPOSITION

SCF-20/4B 200/1 (code 20131683)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20095379	SCF-20B collector
B	1	20120499	Solar control box EVOSOL with probes
C	1	20117881	IDRA DS 200 (B class) cylinder
D	1	20116162	7.5 m CONNECT SOLAR R - only return hydraulic group
E	1	4383085	5 kg glycol
F	1	4383052	18 lt expansion vessel
G	1	1150529	3/4" thermostatic mixing valve

SCF-20/4B 300/2 (code 20131684)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20095380	2 pcs. of SCF-20B collector (in 1 package)
B	1	20120499	Solar control box EVOSOL with probes
C	1	20117882	IDRA DS 300 (B class) cylinder
D	1	20116162	7.5 m CONNECT SOLAR R - only return hydraulic group
E	1	4383085	5 kg glycol
F	1	4383052	18 lt expansion vessel
G	1	1150529	3/4" thermostatic mixing valve

SISTEMA SCF-20/4B - SYSTEMS COMPOSITION

SCF-20/4B 400/3 (code 20131685)

REF.	QUANTITY	CODE	DESCRIPTION
A	1	20095379	SCF-20B collector
A	1	20095380	2 pcs. of SCF-20B collector (in 1 package)
B	1	20120499	Solar control box EVOSOL with probes
C	1	20117883	IDRA DS 430 (B class) cylinder
D	1	20116162	7.5 m CONNECT SOLAR R - only return hydraulic group
E	1	20009190	2.5 kg glycol
E	1	4383059	10 kg glycol
F	1	4383053	24 lt expansion vessel
G	1	1150529	3/4" thermostatic mixing valve

SCF-20/4B 500/4 (code 20131688)

REF.	QUANTITY	CODE	DESCRIPTION
A	2	20095380	4 pcs. of SCF-20B collector (in 2 packages)
B	1	20120499	Solar control box EVOSOL with probes
C	1	20117884	IDRA DS 550 cylinder
D	1	20116162	7.5 m CONNECT SOLAR R - only return hydraulic group
E	1	4383085	5 kg glycol
E	1	4383059	10 kg glycol
F	1	4383053	24 lt expansion vessel
G	1	1150529	3/4" thermostatic mixing valve

To complete the installation it is necessary to buy, according to the number of collectors and to the kind of roof and installation, complete brackets kits for flat or pitched roof or undertile brackets kits.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SOLAR KEYMARK

SOLAR
KEYMARK
certification

- ■ Natural circulation system for the production of DHW, performing best in areas with high levels of sunlight and mild winters.
- ■ Ready-to-be-installed system, complete with collector(s), cylinder, fittings and glycol.
- ■ Blue selective absorber surface.
- ■ Ease of functioning: no need of any additional components such as a circulator or an electronic controller.
- ■ Complete with anti-irradiation film to be taken away at the activation of the system.
- ■ Collector stagnation temperature: 192 °C.
- ■ Magnesium anode included with the standard equipment.
- ■ DHW and solar safety valves (10 bar and 2.5 bar).
- ■ Enamelled double-walled steel cylinder with polyurethane insulation.
- ■ Electrical resistance and mixing valve available as accessories.
- ■ NB-SOL system can be matched with combi wall-hung boilers.
- ■ Shock-proof plastic cover protects the cylinder.
- ■ Systems conform to the EN12975 and EN12976 standards.

Complete natural circulation systems* - for FLAT ROOF ⌂ ErP

CODE	MODEL	NUMBER OF COL-LECTORS	CYLINDER CAPACITY (litres)	COLLECTORS DIMENSIONS H X L (mm)	COLLECTORS TOTAL AREA (m²)
20100366	NB-SOL 150/1 TP**	1	150	1818 x 1097	1.91
20100367	NB-SOL 200/1 TP**	1	200	1818 x 1097	1.91
20100368	NB-SOL 220/2 TP**	2	220	1818 x 2194	3.82
20100369	NB-SOL 300/2 TP**	2	300	1818 x 2194	3.82
20100370	NB-SOL 300/3 TP**	3	300	1818 x 3291	5.73

NB: The angle of inclination of the solar collector is 30°.

Complete natural circulation systems* - for PITCHED ROOF ⌂ ErP

CODE	MODEL	NUMBER OF COL-LECTORS	CYLINDER CAPACITY (litres)	COLLECTORS DIMENSIONS H X L (mm)	COLLECTORS TOTAL AREA (m²)
20098606	NB-SOL 150/1 TI**	1	150	1818 x 1097	1.91
20098607	NB-SOL 200/1 TI**	1	200	1818 x 1097	1.91
20099128	NB-SOL 220/2 TI**	2	220	1818 x 2194	3.82
20099129	NB-SOL 300/2 TI**	2	300	1818 x 2194	3.82
20099130	NB-SOL 300/3 TI**	3	300	1818 x 3291	5.73

* Brackets are included in NB-SOL system.
** It is recommended to install a DHW expansion vessel according to the cylinder capacity.

SISTEMA NB-SOL

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
1150529	Thermostatic mixing valve 3/4"	4383052	18 litres solar expansion vessel
20020778	Thermostatic mixing valve 1" with 3/4" adapter	4383053	24 litres solar expansion vessel
20006605	Electrical resistance 1.5 kW, 1 1/4"		

*   This code is available until stock is exhausted.

Dimensions and weight

NB-SOL TP
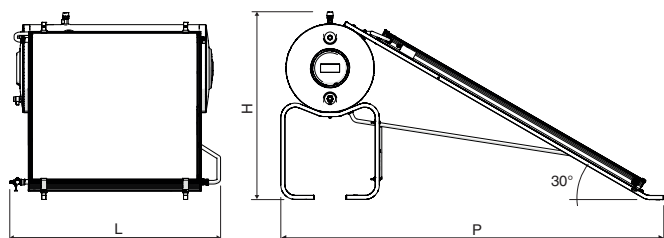
NB-SOL TI
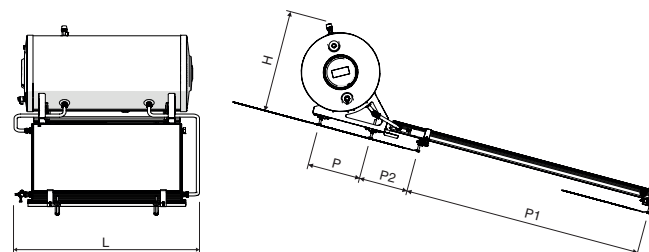
Technical specifications

DESCRIPTION	NB-SOL										
	150/1TP	200/1TP	220/2TP	300/2TP	300/3TP	150/1TI	200/1TI	220/2TI	300/2TI	300/3TI	UDM
Empty weight	112	136	162	198	236	94	122	143	193	200	kg
Gross weight	274	352	401	496	597	256	338	382	491	500	kg
L	1310	1310	2400	2400	3500	1300	1300	2410	2410	3510	mm
P	2310	2310	2310	2310	2310	270	270	360	360	360	mm
H	1130	1130	1130	1130	1130	720	720	720	720	720	mm
P1	-	-	-	-	-	1965	1965	1619	1619	1619	mm
P2	-	-	-	-	-	-	-	332	332	332	mm
Fluid	8.5	13.6	16.3	20.3	22.2	8.5	13.6	16.3	20.3	22.2	l

Diverter valves and thermostatic valves

CODE	DESCRIPTION
1150529	3/4" thermostatic mixing valve
20020778	1" thermostatic mixing valve with 3/4" adapter

CODE	DESCRIPTION
20035644	Solar mixing diverting valve kit (for combined boilers) *

* The mixing valve is not designed for installation in built-in BOXES.

Expansion vessel

CODE	DESCRIPTION
4383052	18 lt expansion vessel
4383053	24 lt expansion vessel
4383054	35 lt expansion vessel
1150499	Bracket for wall installation of expansion reservoir 18-24 litres
4383256	50 lt expansion vessel
4383257	100 lt expansion vessel

Glycol and accessories
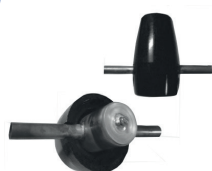
CODE	DESCRIPTION
20066441	2.5 kg glycol
4383085	5 kg glycol
4383059	10 kg glycol
20011536	12 lt/min flowmeter
20026577	Manual air vent

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

NATURAL CIRCULATION SYSTEM FOR DHW PRODUCTION WITH COMBINED BOILER INTEGRATION
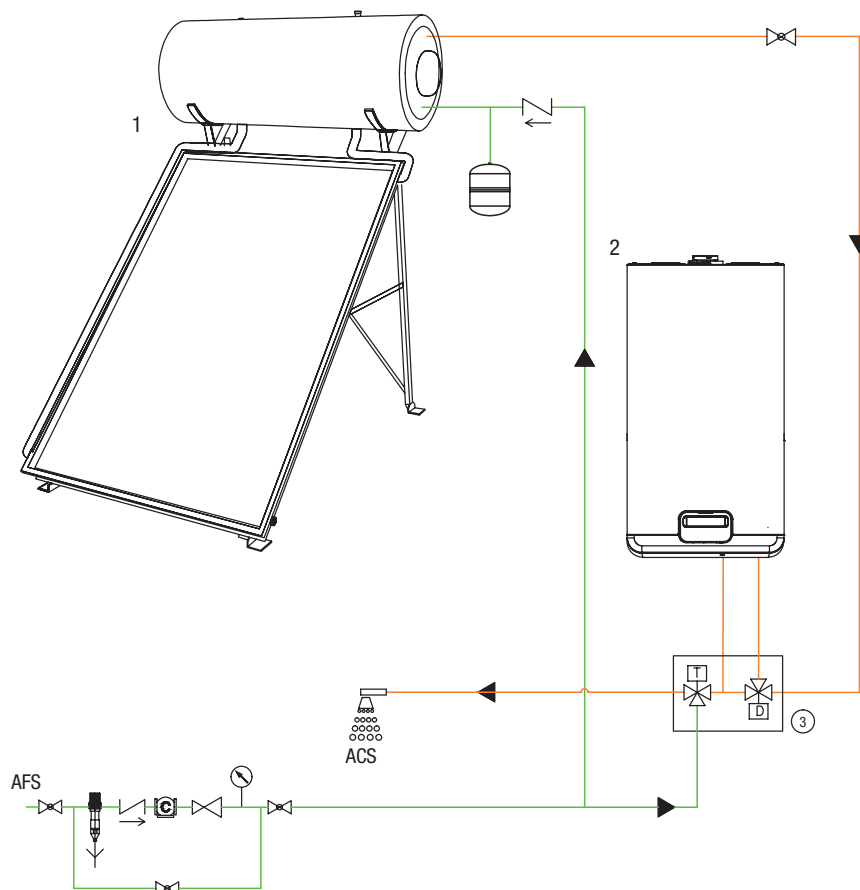
Basic layout purely for illustrative purposes

Key:

01 NB-SOL natural circulation system with SCF-20B profiled collectors
02 EXCLUSIVE C condensing boiler
03 Domestic water diverting/mixing valve

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SYSTEM FOR DHW PRODUCTION, HEATING AND SWIMMING POOL WITH SINGLE-COIL BUFFER TANK
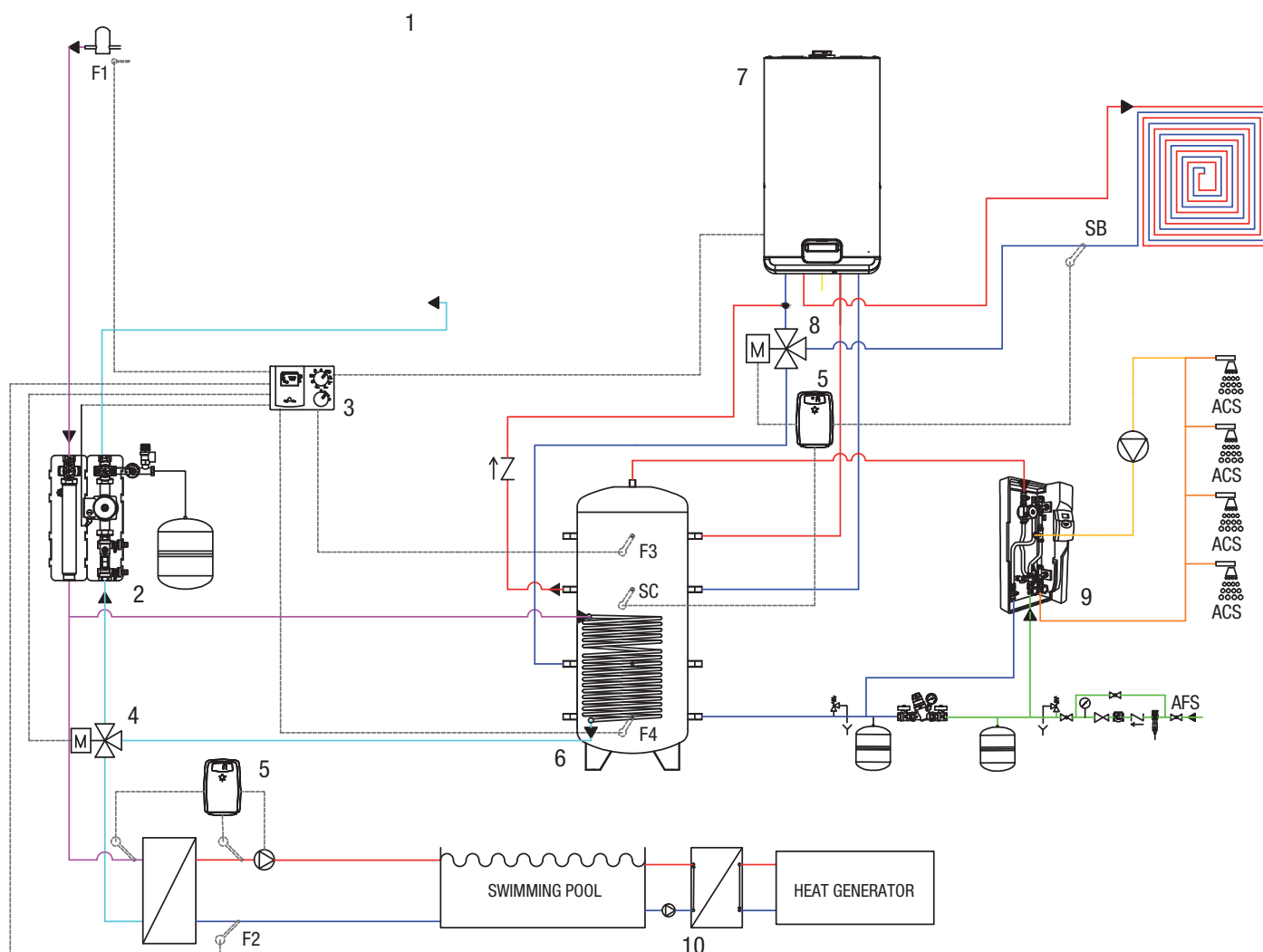
Basic layout purely for illustrative purposes

Key:

1   Flat solar collectors SCF-25/4B
2   Delivery and return solar hydraulic unit
3   SUN 5 solar control unit
4   Storage/swimming pool solar motorised diverting valve
5   Mains water softener
6   STOR M single-coil inertial buffer tank
7   EXCLUSIVE R condensing boiler
8   Motorised LT system return diverting valve
9   Module for domestic hot water production ACS 30
10 Inspectable plate exchanger SP

F1   Solar collector probe
F3   Upper storage probe
F4   Lower storage probe
SB   Radiant panels system return probe
SC   Central storage probe

Certification
SOLAR KEYMARK

- Sealed collector with aluminium profile - 2.5 sq.m
- Highly selective absorber surface
- The collector glass is equipped with protective film, to be removed when the system is commissioned
- Rock wool insulation (40 mm)
- Collector absorption: 95%
- Collector stagnation temperature: 197 °C
- Possibility of connecting in series up to 6 collectors horizontally and 10 vertically
- 5-year warranty for solar panel
- Compliance with EN 12975, ISO 9806 and Solar Keymark certificate

Collector with aluminium profile - 2.5 sq.m

CODE	MODEL	DIMENSIONS H x L (mm)	TOTAL SURFACE (m²)
20184340	SCF-25/4B	2.004x1.195	2.30

Packs

CODE	MODEL
20184341	Pack of 2 pcs. code 20184340 SCF-25/4B single package
20184342	Pack of 5 pcs. code 20184340 SCF-25/4B single package

Accessories for vertical and horizontal installation

CODE	DESCRIPTION
20026577	Manual degasser kit [1]
20132142	Copper tube connection accessory Ø22
20094627	Kit of two end compression fittings for collectors [2]

(1) Use one for each set of collectors.
(2) Use one for each row of SCF-25/4B collectors.

Collectors for forced systems

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SCF-25/4B

Beretta

1195

1148

46,5

85

2004

Collector delivery

Well for collector probe

Flow of the heat transfer fluid

(*)

(**)

Collector return

(*) Collector return alternative
(**) Collector delivery alternative

⚠ Delivery and return must be on opposite sides

Ventilation holes

1" fixing

Glass 3,2 mm

Collector Ø 22 mm

Connection sealing elements

DESCRIPTION	PROFILE COLLECTOR SCF-25/4B	u.o.m.
Total surface	2.30	m²
Opening surface	2.15	m²
Effective absorber surface	2.14	m²
Connections (M) - (F)	2 x 1"M / 2 x 1"F	-
Empty weight	40.0	kg
Liquid content	1.6	l
Recommended flow rate per m² of panel	30	l/h
Glass thickness	3.2	mm
Absorption (α)	95	%
Emissions (ε)	4	%
IAM (50°)	0.95	-
η coll. (at 1000 W/m²)	62	%
Maximum allowed pressure	10	bar

Efficiency curve

Tm [m² K/W]
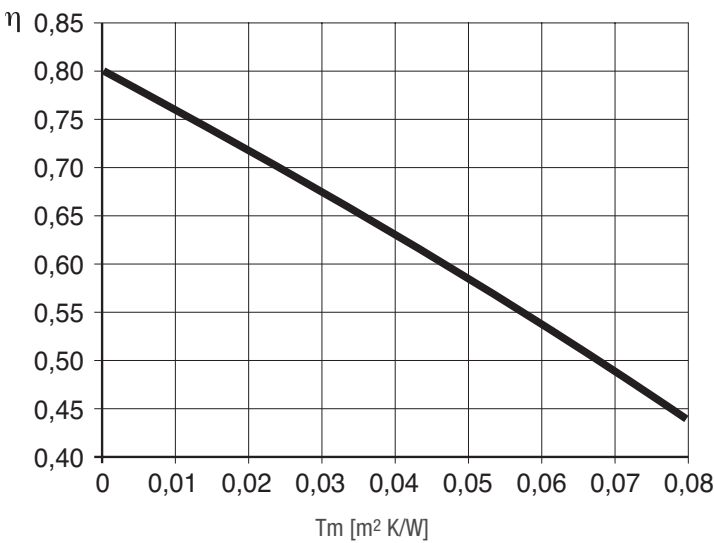
Solar collector pressure drop

Flow rate (l/h)
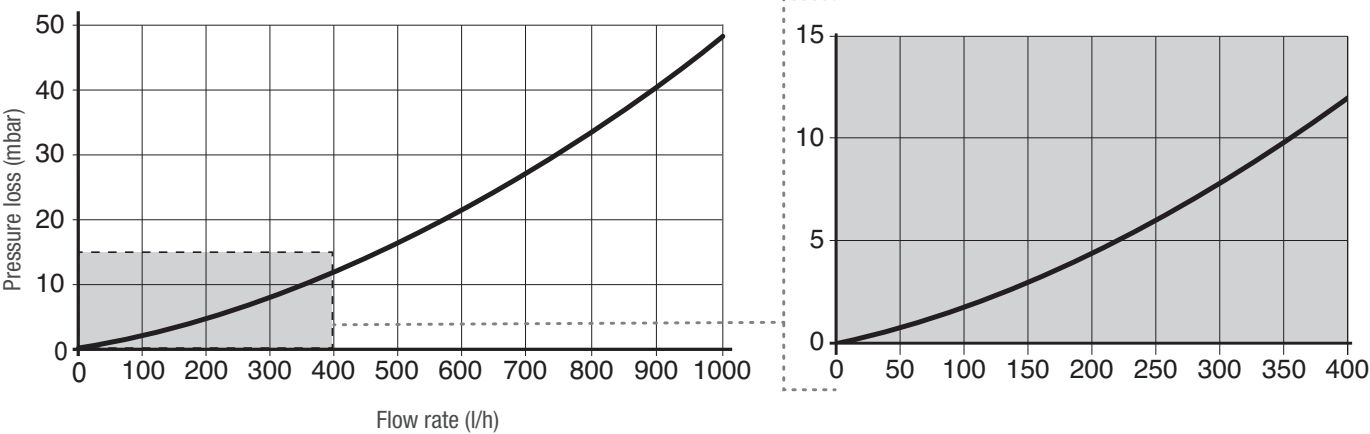
SCF-25/4B - COMPLETE BRACKET KITS

VERTICAL ASSEMBLY

Slanting roof brackets - complete kits for SCF-25/4B collector
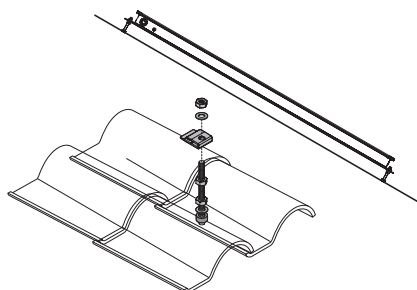
CODE	DESCRIPTION
20104603	Bracket kit for SLANTING ROOF 1 SCF-25/4B collector
20104604	Bracket kit for SLANTING ROOF 2 SCF-25/4B collectors
20104605	Bracket kit for SLANTING ROOF 3 SCF-25/4B collectors
20104606	Bracket kit for SLANTING ROOF 4 SCF-25/4B collectors
20104610	Bracket kit for SLANTING ROOF 5 SCF-25/4B collectors
20104611	Bracket kit for SLANTING ROOF 6 SCF-25/4B collectors

VERTICAL ASSEMBLY

Undertile brackets fol slanting roof - complete kits for SCF-25/4B collector
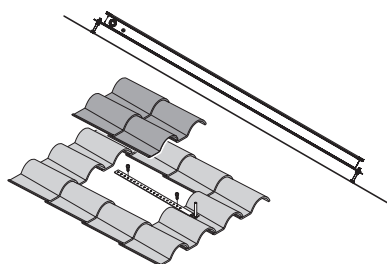
CODE	DESCRIPTION
20104630	Undertile bracket kit for SLANTING ROOF 1 SCF-25/4B collector
20104632	Undertile bracket kit for SLANTING ROOF 2 SCF-25/4B collectors
20104634	Undertile bracket kit for SLANTING ROOF 3 SCF-25/4B collectors
20104635	Undertile bracket kit for SLANTING ROOF 4 SCF-25/4B collectors
20104636	Undertile bracket kit for SLANTING ROOF 5 SCF-25/4B collectors
20104637	Undertile bracket kit for SLANTING ROOF 6 SCF-25/4B collectors

VERTICAL ASSEMBLY

Flat roof brackets - complete kits for SCF-25/4B collector

45°
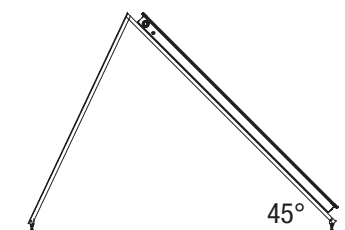
CODE	DESCRIPTION
20104624	Bracket kit for FLAT ROOF 1 SCF-25/4B collector
20104625	Bracket kit for FLAT ROOF 2 SCF-25/4B collectors
20104626	Bracket kit for FLAT ROOF 3 SCF-25/4B collectors
20104627	Bracket kit for FLAT ROOF 4 SCF-25/4B collectors
20104628	Bracket kit for FLAT ROOF 5 SCF-25/4B collectors
20104629	Bracket kit for FLAT ROOF 6 SCF-25/4B collectors

Refer to the tables on the following pages for the composition of complete bracket kits.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

VERTICAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20087437	Support rods for 1 SCF-25/4B collector
B	20087438	Support rods for 2 SCF-25/4B collectors
C	20087439	Support rods for 3 SCF-25/4B collectors
D	20087433	Fixing "A" for SLANTING ROOF
E	20087434	Fixing "B" for SLANTING ROOF
F	20093048	Coupling joints
G	20094627	Terminal connection kit
H	20093046	Collector locking kit

VERTICAL ASSEMBLY

Composition table - complete bracket kits for slanting roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104603 kit for 1 collector	20104604 kit for 2 collectors	20104605 kit for 3 collectors	20104606 kit for 4 collectors	20104610 kit for 5 collectors	20104611 kit for 6 collectors
A	20087437	Support rods for 1 SCF-25/4B collector	1	-	-	-	-	-
B	20087438	Support rods for 2 SCF-25/4B collectors	-	1	-	2	1	-
C	20087439	Support rods for 3 SCF-25/4B collectors	-	-	1	-	1	2
D	20087433	Fixing "A" for SLANTING ROOF	1	1	-	2	1	-
E	20087434	Fixing "B" for SLANTING ROOF	-	-	1	-	1	2
F	20093048	Coupling joints	-	-	-	1	1	1
G	20094627	Terminal connection kit	1	1	1	1	1	1
H	20093046	Collector locking kit	1	2	3	4	5	6

VERTICAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20087437	Support rods for 1 SCF-25/4B collector
B	20087438	Support rods for 2 SCF-25/4B collectors
C	20087439	Support rods for 3 SCF-25/4B collectors
D	20093049	UNDERTILE fixing for 1-2 collectors
E	20093050	UNDERTILE fixing for 3 collectors
F	20093048	Coupling joints
G	20094627	Terminal connection kit
H	20093046	Collector locking kit

VERTICAL ASSEMBLY

Composition table - complete undertile bracket kits for slanting roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104630 kit for 1 collector	20104632 kit for 2 collectors	20104634 kit for 3 collectors	20104635 kit for 4 collectors	20104636 kit for 5 collectors	20104637 kit for 6 collectors
A	20087437	Support rods for 1 SCF-25/4B collector	1	-	-	-	-	-
B	20087438	Support rods for 2 SCF-25/4B collectors	-	1	-	2	1	-
C	20087439	Support rods for 3 SCF-25/4B collectors	-	-	1	-	1	2
D	20093049	UNDERTILE fixing for 1-2 collectors	1	1	-	2	1	-
E	20093050	UNDERTILE fixing for 3 collectors	-	-	1	-	1	2
F	20093048	Coupling joints	-	1	1	1	1	1
G	20094627	Terminal connection kit	1	1	1	1	1	1
H	20093046	Collector locking kit	1	2	3	4	5	6

203
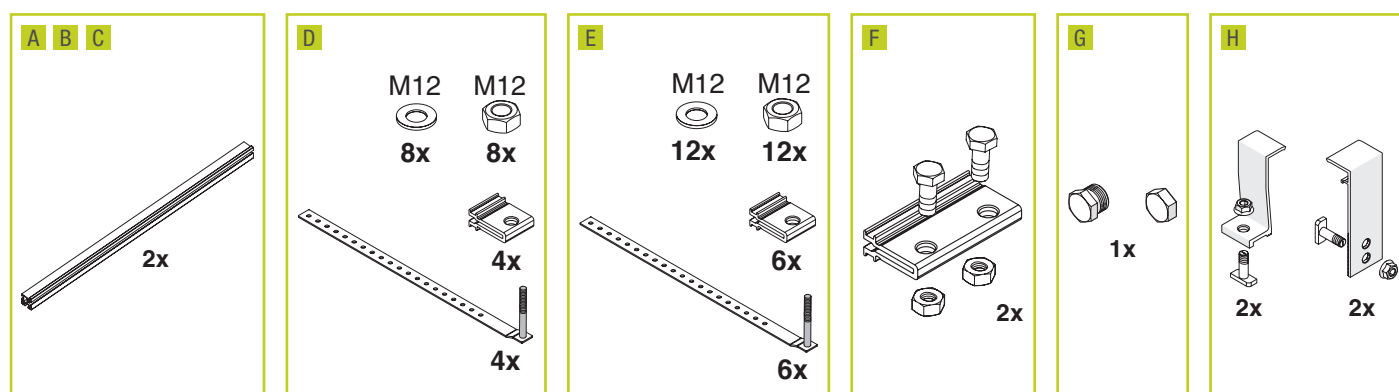
SCF-25/4B - COMPOSITION OF COMPLETE BRACKET KITS FOR FLAT ROOF

VERTICAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20087437	Support rods for 1 SCF-25/4B collector
B	20087438	Support rods for 2 SCF-25/4B collectors
C	20087439	Support rods for 3 SCF-25/4B collectors
D	20087435	FLAT ROOF fixing for 1-2 collectors
E	20087436	FLAT ROOF fixing for 3 collectors
F	20093048	Coupling joints
G	20094627	Terminal connection kit
H	20093046	Collector locking kit

VERTICAL ASSEMBLY

Composition table - complete bracket kits for flat roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104624 kit for 1 collector	20104625 kit for 2 collectors	20104626 kit for 3 collectors	20104627 kit for 4 collectors	20104628 kit for 5 collectors	20104629 kit for 6 collectors
A	20087437	Support rods for 1 SCF-25/4B collector	1	-	-	-	-	-
B	20087438	Support rods for 2 SCF-25/4B collectors	-	1	-	2	1	-
C	20087439	Support rods for 3 SCF-25/4B collectors	-	-	1	-	1	2
D	20087435	FLAT ROOF fixing for 1-2 collectors	1	1	-	2	1	-
E	20087436	FLAT ROOF fixing for 3 collectors	-	-	1	-	1	2
F	20093048	Coupling joints	-	-	-	1	1	1
G	20094627	Terminal connection kit	1	1	1	1	1	1
H	20093046	Collector locking kit	1	2	3	4	5	6

VERTICAL ASSEMBLY

Kit for built-in installation on single row - complete kits for SCF-25/4B collector
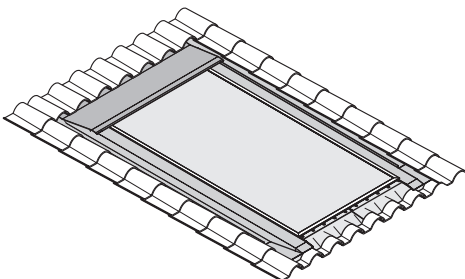
CODE	DESCRIPTION
20145347	Kit for built-in installation of 1 SCF-25/4B collector
20145351	Kit for built-in installation of 2 SCF-25/4B collectors
20148401	Kit for built-in installation of 3 SCF-25/4B collectors
20148404	Kit for built-in installation of 4 SCF-25/4B collectors
20149352	Kit for built-in installation of 5 SCF-25/4B collectors
20149353	Kit for built-in installation of 6 SCF-25/4B collectors

Refer to the tables on the following pages for the composition of complete flashing kits.
Built-in installation with flashings for ventilated roofs (minimum slant 20°).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SCF-25/4B - COMPLETE BRACKET KITS

HORIZONTAL ASSEMBLY

Slanting roof brackets - complete kits for horiz. collector SCF-25/4B
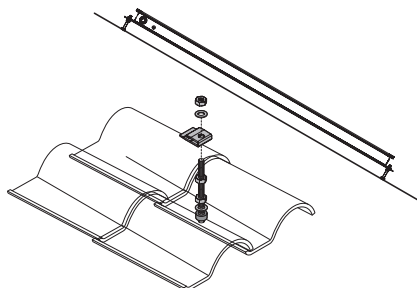
CODE	DESCRIPTION
20104698	Bracket kit for SLANTING ROOF 1 horizontal collector SCF-25/4B
20104699	Bracket kit for SLANTING ROOF 2 horizontal collectors SCF-25/4B
20104701	Bracket kit for SLANTING ROOF 3 horizontal collectors SCF-25/4B
20104704	Bracket kit for SLANTING ROOF 4 horizontal collectors SCF-25/4B
20104705	Bracket kit for SLANTING ROOF 5 horizontal collectors SCF-25/4B
20104708	Bracket kit for SLANTING ROOF 6 horizontal collectors SCF-25/4B

HORIZONTAL ASSEMBLY

Undertile brackets fol slanting roof - complete kits for horiz. collector SCF-25/4B
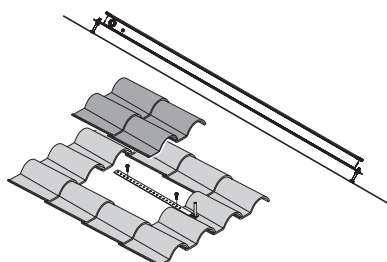
CODE	DESCRIPTION
20104741	Undertile bracket kit for SLANTING ROOF 1 horizontal collector SCF-25/4B
20104742	Undertile bracket kit for SLANTING ROOF 2 horizontal collectors SCF-25/4B
20104743	Undertile bracket kit for SLANTING ROOF 3 horizontal collectors SCF-25/4B
20104745	Undertile bracket kit for SLANTING ROOF 4 horizontal collectors SCF-25/4B
20104746	Undertile bracket kit for SLANTING ROOF 5 horizontal collectors SCF-25/4B
20104748	Undertile bracket kit for SLANTING ROOF 6 horizontal collectors SCF-25/4B

HORIZONTAL ASSEMBLY

Flat roof brackets - complete kits for horiz. collector SCF-25/4B

45°
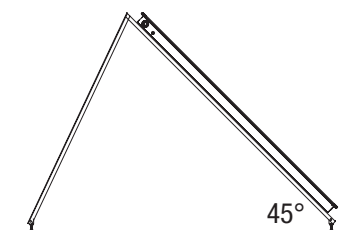
CODE	DESCRIPTION
20104730	Bracket kit for FLAT ROOF 1 horizontal collector SCF-25/4B
20104732	Bracket kit for FLAT ROOF 2 horizontal collectors SCF-25/4B
20104734	Bracket kit for FLAT ROOF 3 horizontal collectors SCF-25/4B
20104737	Bracket kit for FLAT ROOF 4 horizontal collectors SCF-25/4B
20104738	Bracket kit for FLAT ROOF 5 horizontal collectors SCF-25/4B
20104150	Bracket kit for FLAT ROOF 6 horizontal collectors SCF-25/4B

Refer to the tables on the following pages for the composition of complete bracket kits.

SCF-25/4B - COMPOSITION OF COMPLETE BRACKET KITS FOR SLANTING ROOF

HORIZONTAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20093053	Support rods for 1 SCF-25/4B collector
B	20093054	Support rods for 2 SCF-25/4B collectors
D	20087433	Fixing "A" for SLANTING ROOF
E	20087434	Fixing "B" for SLANTING ROOF
F	20093048	Coupling joints
H	20093046	Collector locking kit
I	20094626	Connection couplings
L	20134336	Terminal connection kit

HORIZONTAL ASSEMBLY

Composition table - complete bracket kits for slanting roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104698 kit for 1 collector	20104699 kit for 2 collectors	20104701 kit for 3 collectors	20104704 kit for 4 collectors	20104705 kit for 5 collectors	20104708 kit for 6 collectors
A	20093053	Support rods for 1 SCF-25/4B collector	1	-	1	-	1	-
B	20093054	Support rods for 2 SCF-25/4B collectors	-	1	1	2	2	3
D	20087433	Fixing "A" for SLANTING ROOF	1	-	1	-	2	-
E	20087434	Fixing "B" for SLANTING ROOF	-	1	1	2	2	3
F	20093048	Coupling joints	-	-	1	1	2	2
H	20093046	Collector locking kit	1	2	3	4	5	6
I	20094626	Connection couplings	-	1	2	3	4	5
L	20134336	Terminal connection kit	1	2	3	4	5	6

A B 2x

D 4x — M12 8x — M12 12x — 4x — 4x

E 6x — M12 12x — M12 18x — 6x — 6x

F 2x

H 2x 2x

I 1x

L 2x

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HORIZONTAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20093053	Support rods for 1 SCF-25/4B collector
B	20093054	Support rods for 2 SCF-25/4B collectors
D	20093049	UNDERTILE fixing for 1-2 collectors
E	20093050	UNDERTILE fixing for 3 collectors
F	20093048	Coupling joints
H	20093046	Collector locking kit
I	20094626	Connection couplings
L	20134336	Terminal connection kit

HORIZONTAL ASSEMBLY

Composition table - complete undertile bracket kits for slanting roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104741 kit for 1 collector	20104742 kit for 2 collectors	20104743 kit for 3 collectors	20104745 kit for 4 collectors	20104746 kit for 5 collectors	20104748 kit for 6 collectors
A	20093053	Support rods for 1 SCF-25/4B collector	1	-	-	-	-	-
B	20093054	Support rods for 2 SCF-25/4B collectors	-	1	1	2	2	3
D	20093049	UNDERTILE fixing for 1-2 collectors	1	1	-	2	1	-
E	20093050	UNDERTILE fixing for 3 collectors	-	-	1	-	1	2
F	20093048	Coupling joints	-	1	1	1	1	1
H	20093046	Collector locking kit	1	2	3	4	5	6
I	20094626	Connection couplings	-	1	2	3	4	5
L	20134336	Terminal connection kit	1	2	3	4	5	6

HORIZONTAL ASSEMBLY

Brackets - base codes for SCF-25/4B collector

REF.	CODE	DESCRIPTION
A	20093053	Support rods for 1 SCF-25/4B collector
B	20093054	Support rods for 2 SCF-25/4B collectors
D	20093055	FLAT ROOF fixing for 1-2 collectors
E	20093056	FLAT ROOF fixing for 3 collectors
F	20093048	Coupling joints
H	20093046	Collector locking kit
I	20094626	Connection couplings
L	20134336	Terminal connection kit

HORIZONTAL ASSEMBLY

Composition table - complete bracket kits for flat roof for SCF-25/4B collector

REF.	CODE	DESCRIPTION	20104730 kit for 1 collector	20104732 kit for 2 collectors	20104734 kit for 3 collectors	20104737 kit for 4 collectors	20104738 kit for 5 collectors	20104150 kit for 6 collectors
A	20093053	Support rods for 1 SCF-25/4B collector	1	-	1	-	1	-
B	20093054	Support rods for 2 SCF-25/4B collectors	-	1	1	2	2	2
D	20093055	FLAT ROOF fixing	1	-	1	-	1	-
E	20093056	FLAT ROOF fixing	-	1	1	2	2	2
F	20093048	Coupling joints	-	-	1	1	2	2
H	20093046	Collector locking kit	1	2	3	4	5	6
I	20094626	Connection couplings	-	1	2	3	4	5
L	20134336	Terminal connection kit	1	2	3	4	5	6

SCF-25B - COLLECTOR WITH SEALED ALUMINIUM FRAME - 2.5m²

SOLAR KEYMARK

SOLAR
KEYMARK
certification

- Collector with sealed aluminium frame - 2.5 m².
- Highly-selective aluminium absorber area.
- Complete with anti-irradiation film to be taken away at the activation of the system.
- Insulation in rock wool (40 mm).
- Collector stagnation temperature: 197 °C.
- Collector absorption: 95%.
- Possibility to connect up to 6 collectors in a series.
- This solar collector conforms to the EN 12975.
- Connection between collectors by means of 2 floating couplings.

Collector with sealed aluminium frame - 2.5 m²

ErP

CODE	MODEL	DIMENSIONS H × L (mm)	COLLECTOR TOTAL AREA (m²)
20095375	SCF-25B	2003 x 1195	2.30

Code available while stocks last

Packages

CODE	MODEL
20095376	One package containing 2 pcs of code 20095375 SCF-25B
20095377	One package containing 5 pcs of code 20095375 SCF-25B

Codes available while stocks last

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20014661	Ending connection fittings kit for 2.5 m² collector*	20108734	Female ending fitting kit**
20132219	Ø18 copper connection fittings kit (for cylinder)		

* The kit contains the fittings for connection to copper pipes Ø 22 mm to be put at the inlet-outlet of the collectors series and the fittings to be inserted at the outlet of the cylinder or of the flow-return hydraulic group.

** The kit contains a fitting that allows to have, on both ends of the collector, a female connection.

20014661 FOR COLLECTORS   FOR SOLAR CYLINDER

20108734 FOR COLLECTORS
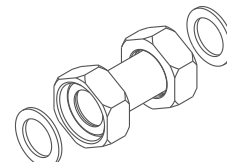
SCF-25B - COLLECTOR WITH SEALED ALUMINIUM FRAME - 2.5m^2
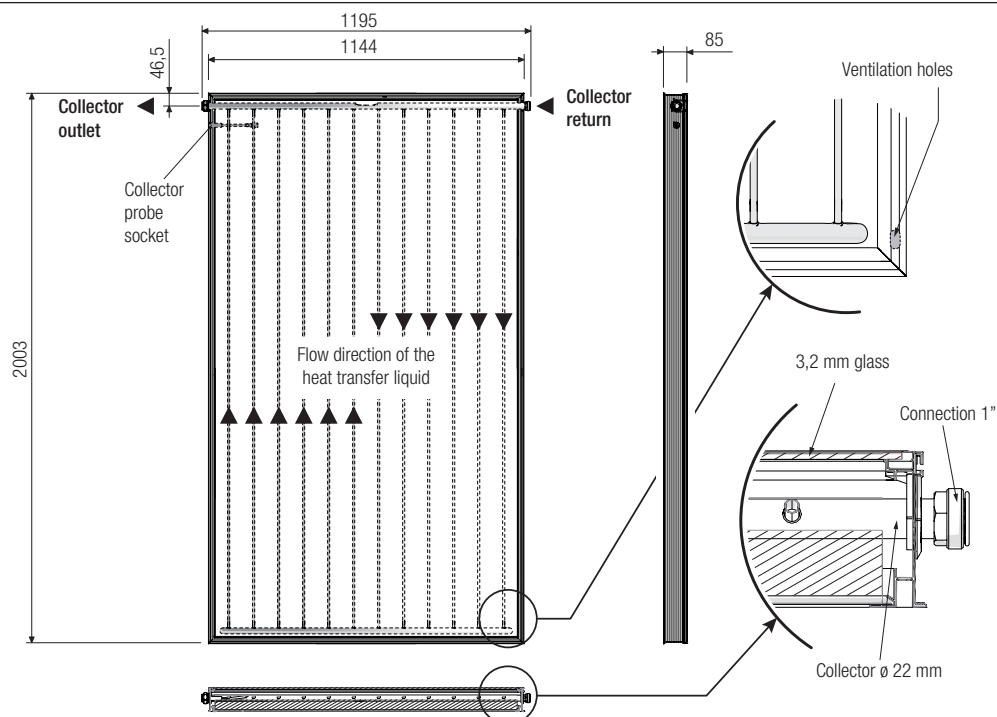
Technical specifications

DESCRIPTION	SEALED ALUMINIUM FRAME COLLECTOR SCF-25B	UOM
Total area	2.30	m^2
Exposed area	2.16	m^2
Effective absorption area	2.15	m^2
Connections (M) - (F)	1"	-
Weight (empty)	40	kg
Liquid content	1.6	l
Recommended flow rate for 1 m^2 collector	30	l/h
Glass thickness	3.2	mm
Absorption (α)	95	%
Emissions (ε)	4	%
IAM (50°)	0.96	-
η coll. (at 1000 W/m^2)	61	%
Maximum permitted pressure	10	bar
Stagnation temperature	197	°C
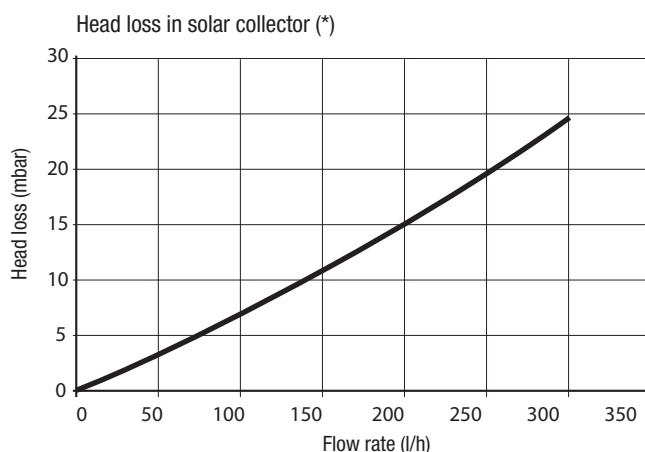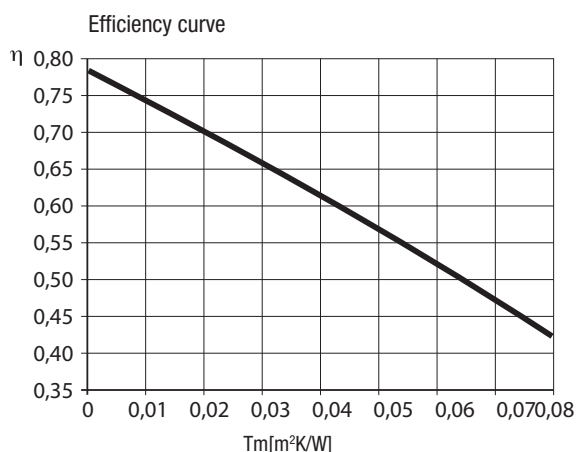
(*) Test referred to a glycol-water mixture (33.3% - 67.7%), with 20 °C temperature of the heat-transfer fluid.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Brackets for PITCHED ROOF - complete kits for SCF-25B collector
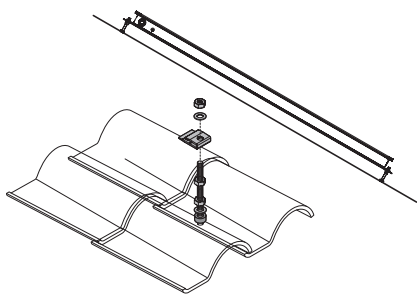
CODE	DESCRIPTION
20099171	Brackets kit for PITCHED ROOF - 1 SCF-25B collector
20099172	Brackets kit for PITCHED ROOF - 2 SCF-25B collectors
20099173	Brackets kit for PITCHED ROOF - 3 SCF-25B collectors
20099174	Brackets kit for PITCHED ROOF - 4 SCF-25B collectors
20099175	Brackets kit for PITCHED ROOF - 5 SCF-25B collectors
20099176	Brackets kit for PITCHED ROOF - 6 SCF-25B collectors

Codes available while stocks last

Undertile brackets for PITCHED ROOF - complete kits for SCF-25B collector
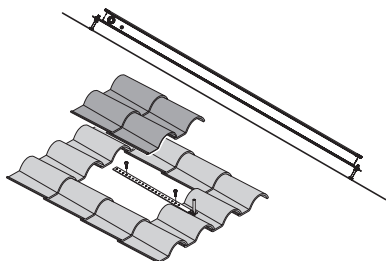
CODE	DESCRIPTION
20099177	Undertile brackets kit for PITCHED ROOF - 1 SCF-25B collector
20099178	Undertile brackets kit for PITCHED ROOF - 2 SCF-25B collectors
20099179	Undertile brackets kit for PITCHED ROOF - 3 SCF-25B collectors
20099180	Undertile brackets kit for PITCHED ROOF - 4 SCF-25B collectors
20099181	Undertile brackets kit for PITCHED ROOF - 5 SCF-25B collectors
20099186	Undertile brackets kit for PITCHED ROOF - 6 SCF-25B collectors

Codes available while stocks last

Brackets for FLAT ROOF - complete kits for SCF-25B collector
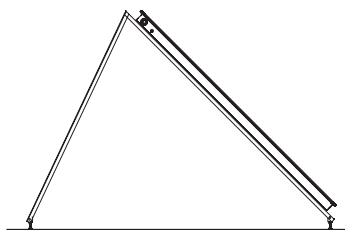
CODE	DESCRIPTION
20099187	Brackets kit for FLAT ROOF - 1 SCF-25B collector
20099188	Brackets kit for FLAT ROOF - 2 SCF-25B collectors
20099189	Brackets kit for FLAT ROOF - 3 SCF-25B collectors
20099190	Brackets kit for FLAT ROOF - 4 SCF-25B collectors
20099191	Brackets kit for FLAT ROOF - 5 SCF-25B collectors
20099193	Brackets kit for FLAT ROOF - 6 SCF-25B collectors

Codes available while stocks last

The detailed composition of the complete brackets kits can be found in the composition tables of the following pages.

SCF-25B - COMPOSITION TABLE OF BRACKETS KITS FOR PITCHED ROOF

Brackets - primary codes for SCF-25B collector

REF.	CODE	DESCRIPTION
A	20087437	Supporting bars kit for 1 SCF-25B
B	20087438	Supporting bars kit for 2 SCF-25B
C	20087439	Supporting bars kit for 3 SCF-25B
D	20087433	"A" fixing elements PITCHED ROOF

REF.	CODE	DESCRIPTION
E	20087434	"B" fixing elements PITCHED ROOF
F	20093048	Coupling joint kit
H	20093046	Collectors blocking kit

Composition table* of complete brackets kits for PITCHED ROOF for SCF-25B collector

REF.	CODE	DESCRIPTION	20099171 kit for 1 collector	20099172 kit for 2 collectors	20099173 kit for 3 collectors	20099174 kit for 4 collectors	20099175 kit for 5 collectors	20099176 kit for 6 collectors
A	20087437	Supporting bars kit for 1 SCF-25B	1	-	-	-	-	-
B	20087438	Supporting bars kit for 2 SCF-25B	-	1	-	2	1	-
C	20087439	Supporting bars kit for 3 SCF-25B	-	-	1	-	1	2
D	20087433	"A" fixing elements PITCHED ROOF	1	1	-	2	1	-
E	20087434	"B" fixing elements PITCHED ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
H	20093046	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

Undertile Brackets - primary codes for SCF-25B collector

REF.	CODE	DESCRIPTION
A	20087437	Supporting bars kit for 1 SCF-25B
B	20087438	Supporting bars kit for 2 SCF-25B
C	20087439	Supporting bars kit for 3 SCF-25B
D	20093049	"A" fixing elements UNDERTILE

REF.	CODE	DESCRIPTION
E	20093050	"B" fixing elements UNDERTILE
F	20093048	Coupling joint kit
H	20093046	Collectors blocking kit

Composition table* of complete undertile brackets kits for PITCHED ROOF for SCF-25B collector

REF.	CODE	DESCRIPTION	20099177 kit for 1 collector	20099178 kit for 2 collectors	20099179 kit for 3 collectors	20099180 kit for 4 collectors	20099181 kit for 5 collectors	20099186 kit for 6 collectors
A	20087437	Supporting bars kit for 1 SCF-25B	1	-	-	-	-	-
B	20087438	Supporting bars kit for 2 SCF-25B	-	1	-	2	1	-
C	20087439	Supporting bars kit for 3 SCF-25B	-	-	1	-	1	2
D	20093049	"A" fixing elements UNDERTILE	1	1	-	2	1	-
E	20093050	"B" fixing elements UNDERTILE	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
H	20093046	Collectors blocking kit	1	2	3	4	5	6

*   This composition table must be read in vertical sense.

A B C
2x

D
M12 8x   M12 8x
4x
4x

E
M12 12X   M12 12x
6X
6x

F
2x

H
2x   2x

SCF-25B - COMPOSITION TABLE OF BRACKETS KITS FOR FLAT ROOF

Beretta

Brackets - primary codes for SCF-25B collector

REF.	CODE	DESCRIPTION
A	20087437	Supporting bars kit for 1 SCF-25B
B	20087438	Supporting bars kit for 2 SCF-25B
C	20087439	Supporting bars kit for 3 SCF-25B
D	20087435	45° fixing elements kit for FLAT ROOF (1-2 collectors)
D	20093057	30° fixing elements kit for FLAT ROOF (1-2 collectors)

REF.	CODE	DESCRIPTION
E	20087436	45° fixing elements kit for FLAT ROOF (3 collectors)
E	20093058	30° fixing elements kit for FLAT ROOF (3 collectors)
F	20093048	Coupling joint kit
H	20093046	Collectors blocking kit

Composition table* of complete 45° brackets kits for FLAT ROOF for SCF-25B collector

REF.	CODE	DESCRIPTION	20099187 kit for 1 collector	20099188 kit for 2 collectors	20099189 kit for 3 collectors	20099190 kit for 4 collectors	20099191 kit for 5 collectors	20099193 kit for 6 collectors
A	20087437	Supporting bars kit for 1 SCF-25B	1	-	-	-	-	-
B	20087438	Supporting bars kit for 2 SCF-25B	-	1	-	2	1	-
C	20087439	Supporting bars kit for 3 SCF-25B	-	-	1	-	1	2
D	20087435	45° fixing elements kit for FLAT ROOF	1	1	-	2	1	-
E	20087436	45° fixing elements kit for FLAT ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
H	20093046	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

Composition table* of complete 30° brackets kits for FLAT ROOF for SCF-25B collector

REF.	CODE	DESCRIPTION	kit for 1 collector	kit for 2 collectors	kit for 3 collectors	kit for 4 collectors	kit for 5 collectors	kit for 6 collectors
A	20087437	Supporting bars kit for 1 SCF-25B	1	-	-	-	-	-
B	20087438	Supporting bars kit for 2 SCF-25B	-	1	-	2	1	-
C	20087439	Supporting bars kit for 3 SCF-25B	-	-	1	-	1	2
D	20093057	30° fixing elements kit for FLAT ROOF	1	1	-	2	1	-
E	20093058	30° fixing elements kit for FLAT ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
H	20093046	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

A B C — 2x

D — 2x, 2x, 4x, 4x, M8 x 20, 4x, 4x, 6x, 4x, M12 8x, M12 12x, M8 10x

E — 3x, 3x, 6x, 6x, M8 x 20, 6x, 6x, 9x, 6x, M12 12x, M12 18x, M8 15x

F — 2x

H — 2x, 2x

Inset flashing plates in a single row - complete kits for SCF-25B collector
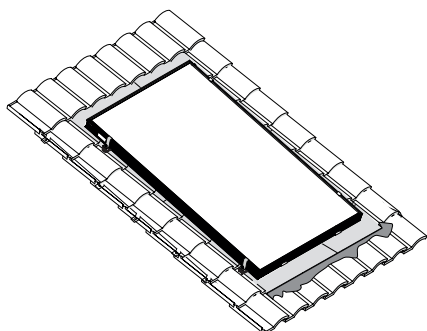
CODE	DESCRIPTION
20112058	Inset flashing plates kit - 1 SCF-25B collector
20112059	Inset flashing plates kit - 2 SCF-25B collectors
20112060	Inset flashing plates kit - 3 SCF-25B collectors
20112062	Inset flashing plates kit - 4 SCF-25B collectors
20112063	Inset flashing plates kit - 5 SCF-25B collectors
20112064	Inset flashing plates kit - 6 SCF-25B collectors

Codes available while stocks last

The detailed composition of the complete brackets kits can be found in the composition tables of the following pages.

SCF-25B - COMPOSITION TABLE OF INSET FLASHING PLATES KITS

Beretta

Inset flashing plates - primary codes for SCF-25B collector

REF.	CODE	DESCRIPTION
A	20087437	Supporting bars kit for 1 SCF-25B
B	20087438	Supporting bars kit for 2 SCF-25B
C	20087439	Supporting bars kit for 3 SCF-25B
D	20105560	"A" fixing elements PITCHED ROOF
E	20105562	"B" fixing elements PITCHED ROOF

REF.	CODE	DESCRIPTION
F	20093048	Coupling joint kit
H	20105558	Collectors blocking kit
I	20104833	Flashing plates for 1 SCF-25B collector
L	20104834	Flashing plates for 2 SCF-25B collectors
M	20104835	Additional flashing plates

Composition table* of complete brackets kits for inset flashing plats for SCF-25B collector

REF.	CODE	DESCRIPTION	20112058 kit for 1 collector	20112059 kit for 2 collectors	20112060 kit for 3 collectors	20112062 kit for 4 collectors	20112063 kit for 5 collectors	20112064 kit for 6 collectors
A	20087437	Supporting bars kit for 1 SCF-25B	1	-	-	-	-	-
B	20087438	Supporting bars kit for 2 SCF-25B	-	1	-	2	1	-
C	20087439	Supporting bars kit for 3 SCF-25B	-	-	1	-	1	2
D	20105560	"A" fixing elements PITCHED ROOF	1	1	-	2	1	-
E	20105562	"B" fixing elements PITCHED ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
H	20105558	Collectors blocking kit	1	2	3	4	5	6
I	20104833	Flashing plates for 1 SCF-25B collector	1	-	-	-	-	-
L	20104834	Flashing plates for 2 SCF-25B collectors	-	1	1	1	1	1
M	20104835	Additional flashing plates	-	-	1	2	3	4

*   This composition table must be read in vertical sense.
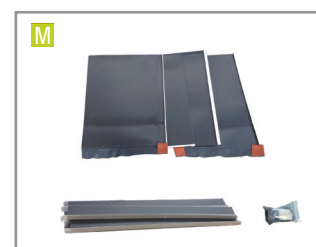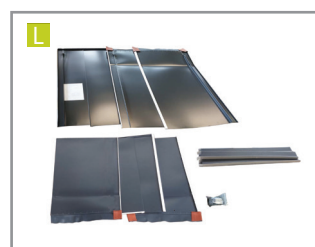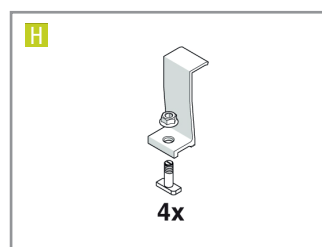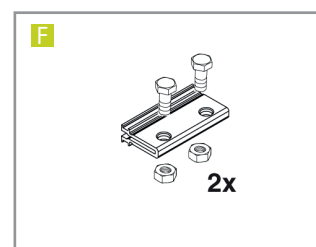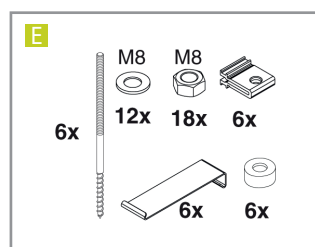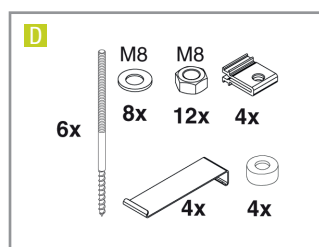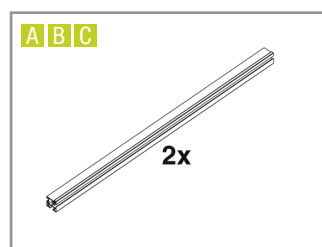
A B C
2x

D
6x
M8 8x
M8 12x
4x
4x
4x

E
6x
M8 12x
M8 18x
6x
6x
6x

F
2x

H
4x

I

L

M

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SCF-20B - COLLECTOR WITH SEALED ALUMINIUM FRAME - 2m²

Beretta

SOLAR KEYMARK

SOLAR KEYMARK certification
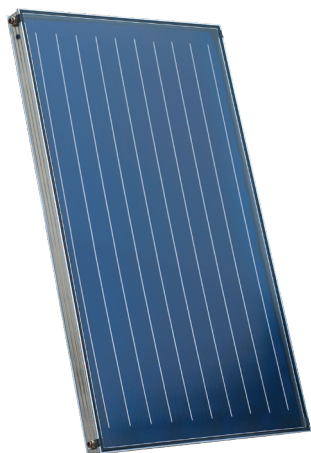
- Collector with sealed aluminium frame - 2 m².
- Highly-selective aluminium absorber area.
- Complete with anti-irradiation film to be taken away at the activation of the system.
- Insulation in glass wool (30 mm).
- Collector stagnation temperature: 192 °C.
- Collector absorption: 95%.
- Possibility to connect up to 6 collectors in a series.
- This solar collector conforms to the EN 12975.
- Connection between collectors by means of 4 floating couplings.

Collector with sealed aluminium frame - 2 m²

ErP

CODE	MODEL	DIMENSIONS H × L (mm)	COLLECTOR TOTAL AREA (m²)
20095379	SCF-20B	1818 x 1097	1.91

Packages

CODE	MODEL
20095380	One package containing 2 pcs of code 20095379 SCF-20B
20095381	One package containing 7 pcs of code 20095379 SCF-20B

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20014661	Ending connection fittings kit for 2.5 m² collector*	20108734	Female ending fitting kit**
20132219	Ø18 copper connection fittings kit (for cylinder)		

* The kit contains the fittings for connection to copper pipes Ø22 mm to be put at the inlet-outlet of the collectors series and the fittings to be inserted at the outlet of the cylinder or of the flow-return hydraulic group.

** The kit contains a fitting that allows to have, on both ends of the collector, a female connection.

20014661 FOR COLLECTOR

FOR SOLAR CYLINDER

20108734 FOR COLLECTOR

SCF-20B - COLLECTOR WITH SEALED ALUMINIUM FRAME - 2m²

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
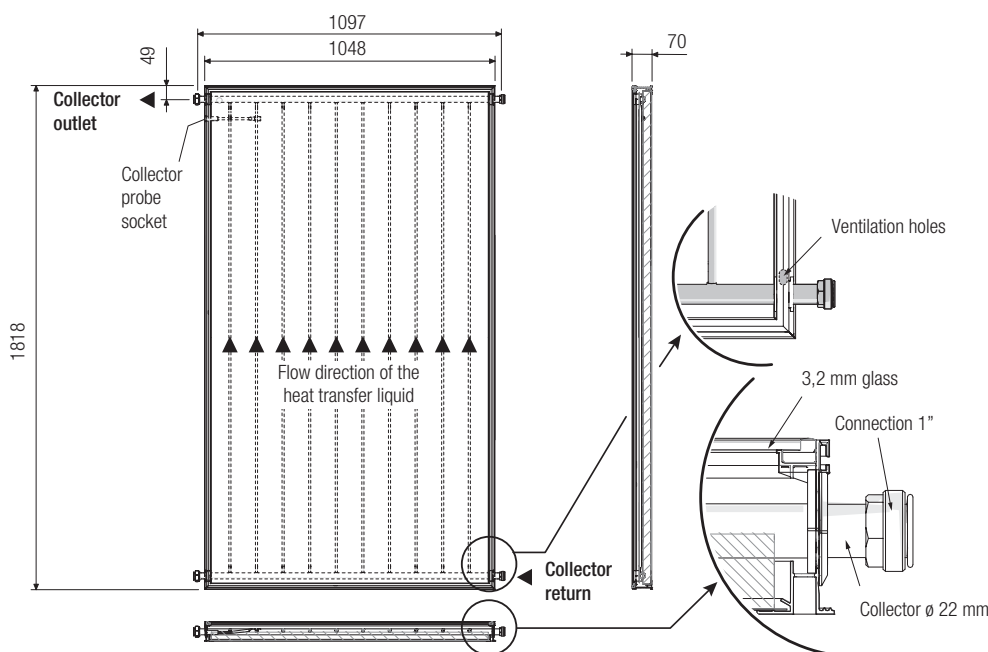
Technical specifications

DESCRIPTION	SEALED ALUMINIUM FRAME COLLECTOR SCF-20B	UOM
Total area	1.91	m²
Exposed area	1.78	m²
Effective absorption area	1.77	m²
Connections (M) - (F)	2 X 1" M / 2 X 1" F	-
Weight (empty)	30	kg
Liquid content	1.5	l
Recommended flow rate for 1 m² collector	30	l/h
Glass thickness	3.2	mm
Absorption (α)	95	%
Emissions (ε)	4	%
IAM (50°)	0.87	-
η coll. (at 1000 W/m²)	58	%
Maximum permitted pressure	10	bar
Stagnation temperature	192	°C

Efficiency curve
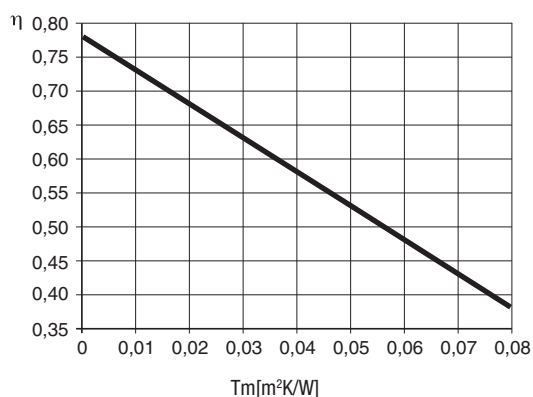
Head loss in solar collector (*)
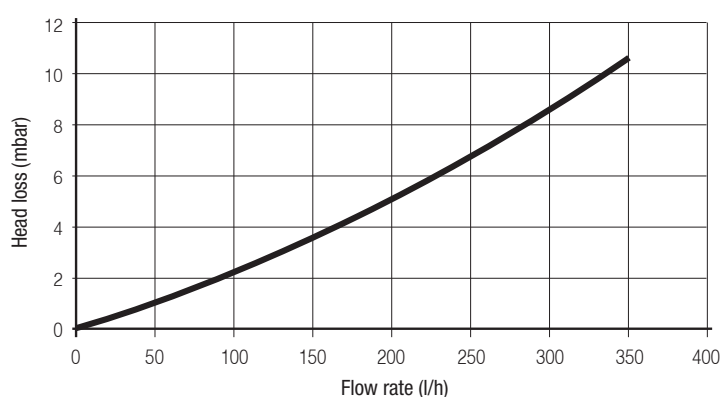
(*) Test referred to a glycol-water mixture (33.3% - 67.7%), with 20 °C temperature of the heat-transfer fluid.

SCF-20B - BRACKETS COMPLETE KITS

Brackets for PITCHED ROOF - complete kits for SCF-20B collector
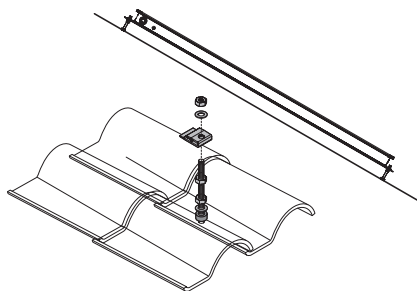
CODE	DESCRIPTION
20104652	Bracket 1 collector in //
20104654	Bracket 2 collectors in //
20104656	Bracket 3 collectors in //
20104659	Bracket 4 collectors in //
20104660	Bracket 5 collectors in //
20104662	Bracket 6 collectors in //

Undertile brackets for PITCHED ROOF - complete kits for SCF-20B collector
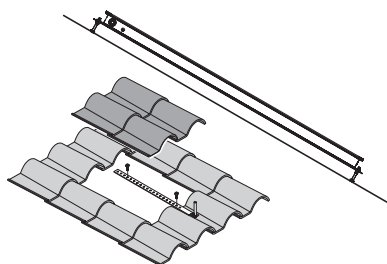
CODE	DESCRIPTION
20104685	Undertile bracket 1 collector
20104686	Undertile bracket 2 collectors
20104687	Undertile bracket 3 collectors
20104688	Undertile bracket 4 collectors
20104690	Undertile bracket 5 collectors
20104691	Undertile bracket 6 collectors

Brackets for FLAT ROOF - complete kits for SCF-20B collector
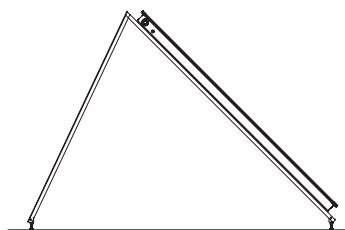
CODE	DESCRIPTION
20104677	Bracket 1 collector at 45° for flat roof
20104679	Bracket 2 collectors at 45° for flat roof
20104680	Bracket 3 collectors at 45° for flat roof
20104682	Bracket 4 collectors at 45° for flat roof
20104683	Bracket 5 collectors at 45° for flat roof
20104684	Bracket 6 collectors at 45° for flat roof

The detailed composition of the complete brackets kits can be found in the composition tables of the following pages.

SCF-20B - COMPOSITION TABLE OF BRACKETS KITS FOR PITCHED ROOF

Brackets - primary codes for SCF-20B collector

REF.	CODE	DESCRIPTION
A	20087442	Supporting bars kit for 1 SCF-20B
B	20087443	Supporting bars kit for 2 SCF-20B
C	20087444	Supporting bars kit for 3 SCF-20B
D	20087433	"A" fixing elements PITCHED ROOF

REF.	CODE	DESCRIPTION
E	20087434	"B" fixing elements PITCHED ROOF
F	20093048	Coupling joint kit
G	20094627	Ending connection kit
H	20093047	Collectors blocking kit

Composition table* of complete brackets kits for PITCHED ROOF for SCF-20B collector

REF.	CODE	DESCRIPTION	20104652 kit for 1 collector	20104654 kit for 2 collectors	20104656 kit for 3 collectors	20104659 kit for 4 collectors	20104660 kit for 5 collectors	20104662 kit for 6 collectors
A	20087442	Supporting bars kit for 1 SCF-20B	1	-	-	-	-	-
B	20087443	Supporting bars kit for 2 SCF-20B	-	1	-	2	1	-
C	20087444	Supporting bars kit for 3 SCF-20B	-	-	1	-	1	2
D	20087433	"A" fixing elements PITCHED ROOF	1	1	-	2	1	-
E	20087434	"B" fixing elements PITCHED ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
G	20094627	Ending connection kit	1	1	1	1	1	1
H	20093047	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

A B C — 2x

D — 4x, M12 8x, M12 12x, 4x, 4x

E — 6x, M12 12x, M12 18x, 6x, 6x

F — 2x

G — 1x

H — 2x, 2x

SCF-20B - COMPOSITION TABLE OF UNDERTILE BRACKETS KITS FOR PITCHED ROOF

Undertile Brackets - primary codes for SCF-20B collector

REF.	CODE	DESCRIPTION
A	20087442	Supporting bars kit for 1 SCF-20B
B	20087443	Supporting bars kit for 2 SCF-20B
C	20087444	Supporting bars kit for 3 SCF-20B
D	20093049	"A" fixing elements UNDERTILE

REF.	CODE	DESCRIPTION
E	20093050	"B" fixing elements UNDERTILE
F	20093048	Coupling joint kit
G	20094627	Ending connection kit
H	20093047	Collectors blocking kit

Composition table* of complete undertile brackets kits for PITCHED ROOF for SCF-20B collector

REF.	CODE	DESCRIPTION	20104685 kit for 1 collector	20104686 kit for 2 collectors	20104687 kit for 3 collectors	20104688 kit for 4 collectors	20104690 kit for 5 collectors	20104691 kit for 6 collectors
A	20087442	Supporting bars kit for 1 SCF-20B	1	-	-	-	-	-
B	20087443	Supporting bars kit for 2 SCF-20B	-	1	-	2	1	-
C	20087444	Supporting bars kit for 3 SCF-20B	-	-	1	-	1	2
D	20093049	"A" fixing elements UNDERTILE	1	1	-	2	1	-
E	20093050	"B" fixing elements UNDERTILE	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
G	20094627	Ending connection kit	1	1	1	1	1	1
H	20093047	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

SCF-20B - COMPOSITION TABLE OF BRACKETS KITS FOR FLAT ROOF

Beretta

Brackets - primary codes for SCF-20B collector

REF.	CODE	DESCRIPTION
A	20087442	Supporting bars kit for 1 SCF-20B
B	20087443	Supporting bars kit for 2 SCF-20B
C	20087444	Supporting bars kit for 3 SCF-20B
D	20087435	45° fixing elements kit for FLAT ROOF (1-2 collectors)
D	20093057	30° fixing elements kit for FLAT ROOF (1-2 collectors)

REF.	CODE	DESCRIPTION
E	20087436	45° fixing elements kit for FLAT ROOF (3 collectors)
E	20093058	30° fixing elements kit for FLAT ROOF (3 collectors)
F	20093048	Coupling joint kit
G	20094627	Ending connection kit
H	20093047	Collectors blocking kit

Composition table* of complete 45° brackets kits for FLAT ROOF for SCF-20B collector

REF.	CODE	DESCRIPTION	20104677 kit for 1 collector	20104679 kit for 2 collectors	20104680 kit for 3 collectors	20104682 kit for 4 collectors	20104683 kit for 5 collectors	20104684 kit for 6 collectors
A	20087442	Supporting bars kit for 1 SCF-20B	1	-	-	-	-	-
B	20087443	Supporting bars kit for 2 SCF-20B	-	1	-	2	1	-
C	20087444	Supporting bars kit for 3 SCF-20B	-	-	1	-	1	2
D	20087435	45° fixing elements kit for FLAT ROOF	1	1	-	2	1	-
E	20087436	45° fixing elements kit for FLAT ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
G	20094627	Ending connection kit	1	1	1	1	1	1
H	20093047	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

Composition table* of complete 30° brackets kits for FLAT ROOF for SCF-20B collector

REF.	CODE	DESCRIPTION	kit for 1 collector	kit for 2 collectors	kit for 3 collectors	kit for 4 collectors	kit for 5 collectors	kit for 6 collectors
A	20087442	Supporting bars kit for 1 SCF-20B	1	-	-	-	-	-
B	20087443	Supporting bars kit for 2 SCF-20B	-	1	-	2	1	-
C	20087444	Supporting bars kit for 3 SCF-20B	-	-	1	-	1	2
D	20093057	30° fixing elements kit for FLAT ROOF	1	1	-	2	1	-
E	20093058	30° fixing elements kit for FLAT ROOF	-	-	1	-	1	2
F	20093048	Coupling joint kit	-	-	-	1	1	1
G	20094627	Ending connection kit	1	1	1	1	1	1
H	20093047	Collectors blocking kit	1	2	3	4	5	6

* This composition table must be read in vertical sense.

A B C
2x

D
2x 2x
4x 4x M8 x 20
4x 4x 6x
4x
M12 M12 M8
8x 12x 10x

E
3x 3x
6x 6x
6x 6x M8 x 20
6x 9x
6x
M12 M12 M8
12x 18x 15x

F
2x

G
1x

H
2x 2x

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

IDRA FI - WITH LOW ENERGY HYDRAULIC GROUP AND SOLAR CONTROL BOX

- Solar cylinders with pre-installed flow/return hydraulic group (featuring a **Low Energy modulating circulator**) and EVOSOL solar control box
- Vertical steel enamelled solar cylinder with double coil
- Sacrificial magnesium anode included with the standard equipment
- Maximum working temperature 99°C
- Coils and cylinders maximum working pressure: 10 bar
- Hydraulic group safety valve maximum working pressure: 6 bar
- High heat exchange capacity of the coils
- Suitable for electrical resistance

Cylinder with Low Energy hydraulic group and solar control box

ErP

CODE	MODEL	DIMENSIONS H X Ø (mm)	CYLINDER CAPACITY (litres)	LOSSES (W)	CLASS
DOUBLE COILS					
20119552	IDRA DS 200 FI	1338 x 604	208 double coil	62	B
20119553	IDRA DS 300 FI	1838 x 604	301 double coil	69	B
20119554	IDRA DS 430 FI	1644 x 755	430 double coil	75	B

For EXPANSION VESSELS see the dedicated section "ACCESSORIES FOR SOLAR THERMAL".

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20001492	1" Thermostatic mixing valve with 3/4" adapter	20123853	Electrical anode kit (1)
20020778	1.5 kW Single-phase flanged electrical resistance	20123850	Cylinder thermometer kit
20119912	2.2 kW Single-phase flanged electrical resistance	20123849	Bend kit for recirculation
20119913	3 kW Single-phase flanged electrical resistance	20123851	Bend kit for electrical anode (2)
20119914	3.8 kW Three-phase flanged electrical resistance		

(1) To connect the electrical anode kit to the EVOSOL solar control box, provide a reduction (not supplied as standard).
(2) Necessary in case of recirculation system only.

N.B. The sacrificial magnesium anode should be periodically monitored and replaced.
N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

Solar cylinders

IDRA FI - WITH LOW ENERGY HYDRAULIC GROUP AND SOLAR CONTROL BOX

M - Flow] Solar
R - Return]
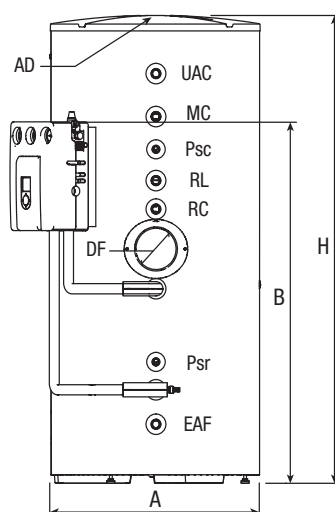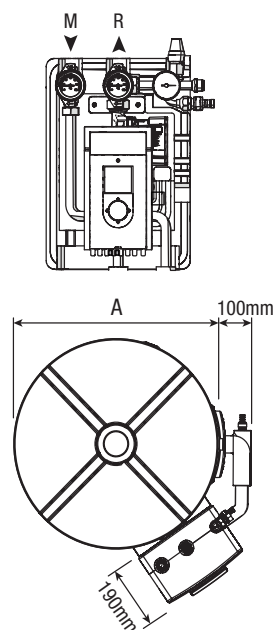
MC - Flow] Boiler
RC - Return]

UAC - DHW outlet
RL - DHW recirculation
EAF - Domestic cold water inlet
Psc - Boiler probe socket
Psr - Solar control-box probe socket
AD - Magnesium anode
DF - Flange internal diameter

Technical specifications

DESCRIPTION	IDRA DS 200 FI	IDRA DS 300 FI	IDRA DS 430 FI	U.O.M.
Cylinder capacity	208	301	430	l
Cylinder diameter with insulation without hydraulic group (A)	604		755	mm
Height with insulation (H)	1338	1838	1644	mm
Height hydraulic group connections (B)	1120	1420	1270	mm
Flange internal diameter		130		mm
Insulation thickness		50		mm
Probe sockets diameter/length		16/180		mm
Cylinder / coils max working pressure	10/10	10/10	10/10	bar
Upper coil continuous efficiency (Flow coil temperature 80°C with ΔT 20°C)	16.1	23	31.4	kW
Lower coil water content	3.5	5.0	7.0	l
Upper coil water content	3.5	4.0	5.0	l
Lower coil exchange surface	0.7	1.0	1.4	m²
Upper coil exchange surface	0.7	0.8	1.0	m²
Maximum operating temperature		99		°C
Net weight	100	122	145	kg

225
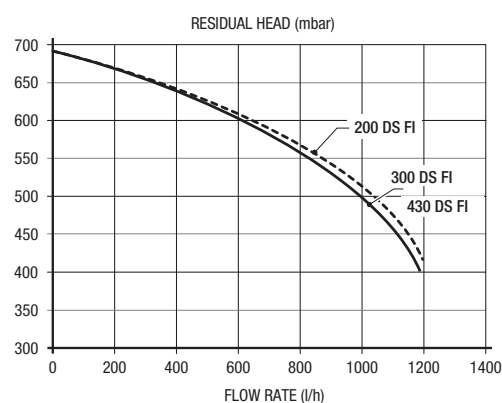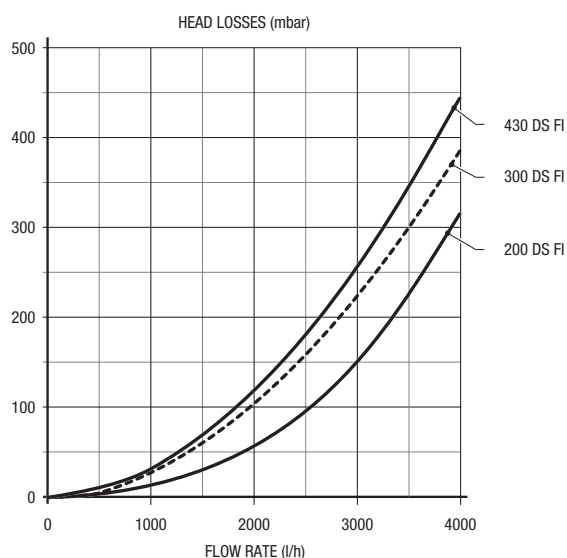
200 - 550

750 - 1000

- Enamelled (double layer) steel solar cylinder
- Double coil heat-exchanger
- Maximum working temperature: 99°C
- High heat exchange capacity of the coils
- Suitable for flanged electrical resistance
- Coils and cylinders maximum working pressure: 10 bar (only Idra DS 200 - 550)
- Coils and cylinders maximum working pressure: 7 bar (only Idra DS 750 - 1000)
- Magnesium anode included with the standard equipment (only Idra DS 200 - 550)
- Double magnesium anode included with the standard equipment (only Idra DS 750 - 1000)
- Insulation through separated packaging (only Idra DS 750 - 1000)

Solar cylinder with increased coil surface

ErP

CODE	MODEL	DIMENSION H X Ø (mm)	CYLINDER CAPACITY (litres)	LOSSES (W)	CLASS
DOUBLE COIL CYLINDERS					
20117881	IDRA DS 200 N	1338 x 604	208 double coil	62	B
20117882	IDRA DS 300 N	1838 x 604	301 double coil	69	B
20117883	IDRA DS 430 N	1644 x 755	430 double coil	75	B
20117884	IDRA DS 550 N	1988 x 755	551 double coil	85	-
20132278	IDRA DS 750 N	1846 x 1000	731 double coil	94	-
20132281	IDRA DS 1000 N	2171 x 1000	883 double coil	101	-

Accessories

CODE	DESCRIPTION
20020778	1" Thermostatic mixing valve with 3/4" adapter
20119911	1.5 kW Single-phase flanged electrical resistance kit (only Idra DS 200 - 550)
20131666	1.5 kW single-phase flanged electrical resistance kit (only Idra DS 750 - 1000)
20119912	2.2 kW Single-phase flanged electrical resistance kit (only Idra DS 200 - 550)
20131667	2.2 kW single-phase flanged electrical resistance kit (only Idra DS 750 - 1000)
20119913	3 kW Single-phase flanged electrical resistance kit (only Idra DS 200 - 550)
20131669	3 kW single-phase flanged electrical resistance kit (only Idra DS 750 - 1000)
20119914	3.8 kW Three-phase flanged electrical resistance kit (only Idra DS 200 - 550)
20131670	3.8 kW three-phase flanged electrical resistance kit (only Idra DS 750 - 1000)
20123850	Cylinder thermometer kit
20055206	1/2" Electrical anode kit (1)
20123853	Electrical anode kit (2)
20123849	Bend kit for the recirculation
20123851	Bend kit for the electrical anode (3)

(1) With electrical plug, to connect the electrical anode kit to the EVOSOL solar control box, provide a reduction from 1"¼ to ½" (not supplied as standard).
(2) Without electrical plug.
(3) Necessary in case of recirculation system only.

N.B. The sacrificial magnesium anode should be periodically monitored and replaced.
N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

HYBRID SYSTEMS

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WALL HUNG BOILERS

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SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

IDRA DS - WITH INCREASED COIL SURFACE

IDRA DS 200-300-430-550 N

| MC | - Flow | ⎤ |
| RC | - Return | ⎦ Boiler |

| M | - Flow | ⎤ |
| R | - Return | ⎦ Solar |

UAC - DHW outlet
RL - DHW recirculation
EAF(SB) - Domestic cold water inlet
Psc - Boiler probe socket
Psr - Solar control-box probe socket
AD - Magnesium anode
DF - Flange internal diameter
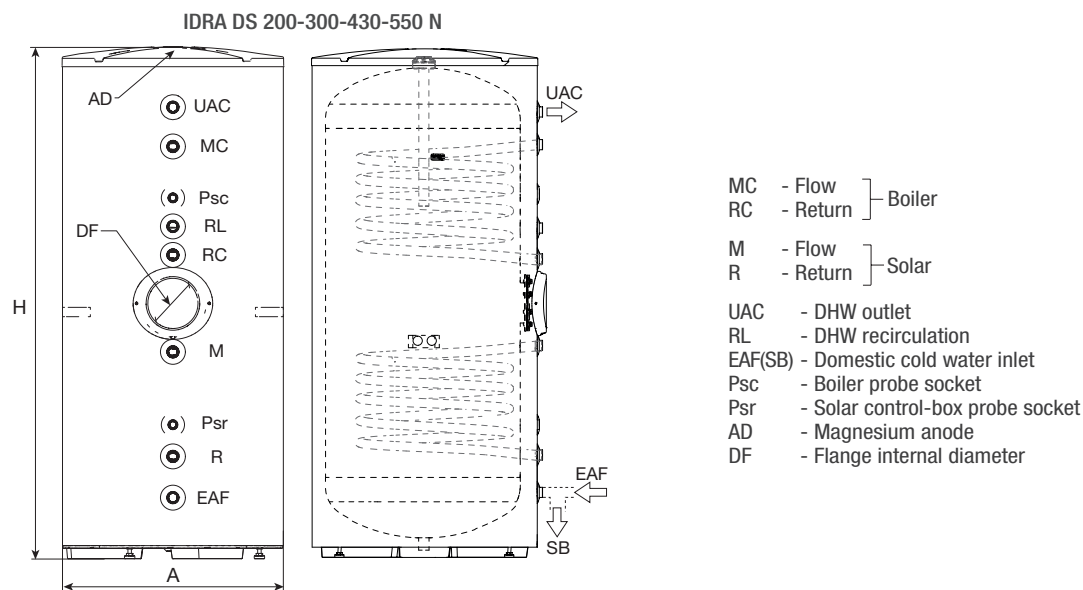
Technical specifications

DESCRIPTION	IDRA DS 200 N	IDRA DS 300 N	IDRA DS 430 N	IDRA DS 550 N	U.O.M.
Cylinder capacity	208	301	430	551	l
Cylinder diameter with insulation (A)	604		755		mm
Height with insulation (H)	1338	1838	1644	1988	mm
Flange internal diameter	130				mm
Insulation thickness	50				mm
Probe sockets diameter / length	16 / 180				mm
Cylinder / coils max working pressure	10 / 10				bar
Upper coil continuous efficiency (Flow coil temperature 80°C with ΔT 20°C)	16.1	23	31.4	31.4	kW
Lower coil water content	3.5	5.0	7.0	9.0	l
Upper coil water content	3.5	4.0	5.0	5.0	l
Lower coil exchange surface	0.7	1.0	1.4	1.8	m^2
Upper coil exchange surface	0.7	0.8	1.0	1.0	m^2
Net weight	86	108	146	171	kg
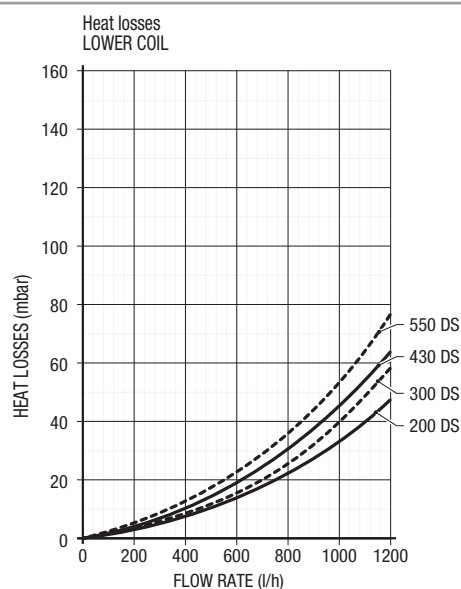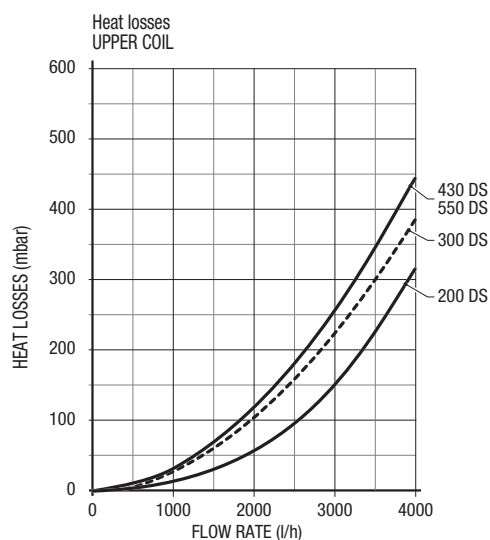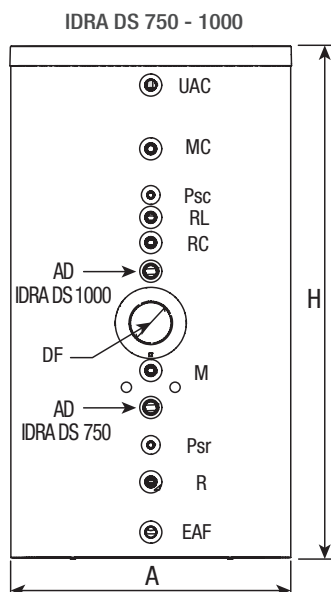
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

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SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

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SYSTEM COMPLEMENTARY ITEMS

Solar cylinders

IDRA DS - WITH INCREASED COIL SURFACE

Beretta

IDRA DS 750 - 1000

UAC

MC

Psc
RL
RC

AD →
IDRA DS 1000

DF

M

AD →
IDRA DS 750

Psr

R

EAF

H

A

MC   - Flow   ⎤
RC   - Return ⎦ Boiler

M   - Flow   ⎤
R   - Return ⎦ Solar

UAC   - DHW outlet
RL   - DHW recirculation
EAF(SB) - Domestic cold water inlet
Psc   - Boiler probe socket
Psr   - Solar control-box probe socket
AD   - Magnesium anode
DF   - Flange internal diameter

Technical specifications

DESCRIPTION	IDRA DS 750 N	IDRA DS 1000 N	U.O.M.
Cylinder capacity	731	883	l
Cylinder diameter with insulation (A)	1000		mm
Height with insulation (H)	1846	2171	mm
Flange internal diameter	130		mm
Insulation thickness	100		mm
Probe sockets diameter/length	16/180		mm
Cylinder / coils max working pressure	7 / 7		bar
Upper coil continuous efficiency (Flow coil temperature 80°C with ΔT 20°C)	50	50	kW
Lower coil water content	11.5	13.5	l
Upper coil water content	8.0		l
Lower coil exchange surface	2.3	2.7	m²
Upper coil exchange surface	1.6		m²
Heat loss (according to EN 12897/2006 (*)	94	101	W
Net weight	222	245	kg

(*) At ΔT = 45°C, ambient 20°C and storage at 65°C.

Heat losses
UPPER COIL

750 DS
1000 DS

HEAT LOSSES (mbar)

FLOW RATE (l/h)

Heat losses
LOWER COIL

1000 DS

750 DS

HEAT LOSSES (mbar)

FLOW RATE (l/h)

229

■ Vertical steel enamelled solar cylinder.
■ Maximum working temperature 99 °C.
■ Double coil heat-exchanger.
■ High heat exchange capacity of the coils.
■ Suitable for electrical resistance.
■ Double magnesium anode included with the standard equipment.

Double coil cylinder with high storage capacity

ErP

CODE	MODEL	DIMENSIONS with insulation H × Ø (mm)	CYLINDER CAPACITY (litres)	HEAT LOSS (W)
20136241	IDRA N DS 1500	2185 × 1200	1390 double coil	162
20136242	IDRA N DS 2000	2470 × 1300	1950 double coil	186
20086803	IDRA N DS 2600	2455 × 1450	2572 double coil	-

For EXPANSION VESSELS see the dedicated section "ACCESSORIES FOR SOLAR THERMAL".

Accessories

CODE	DESCRIPTION
20120499	Solar control box EVOSOL with probes
20099595	Solar control box SUN 5 PRO 5 RS with probes
20020778	Thermostatic mixing valve 1" with 3/4" adapter
4383272	Single-phase electrical resistance 3 kW, 1" 1/2

CODE	DESCRIPTION
20079908	Single-phase electrical resistance 6 kW, 1" 1/2
20020707	Three-phase electrical resistance 3.8 kW, 1" 1/2
20055206	Electrical anode kit 1/2" (*)

(*) To connect the electrical anode kit, provide a reduction (not supplied as standard) from 1" ¼ to ½".

N.B. The sacrificial magnesium anode should be periodically monitored and replaced.
N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

HYBRID SYSTEMS

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SYSTEM COMPLEMENTARY ITEMS

Solar cylinders
IDRA N DS - WITH HIGH STORAGE CAPACITY

Beretta

MC - Flow ⎤ Boiler
RC - Return ⎦

M - Flow ⎤ Solar
R - Return ⎦

UAC - DHW outlet
RL - DHW recirculation
EAF - Domestic cold water inlet
SB - Cylinder drain
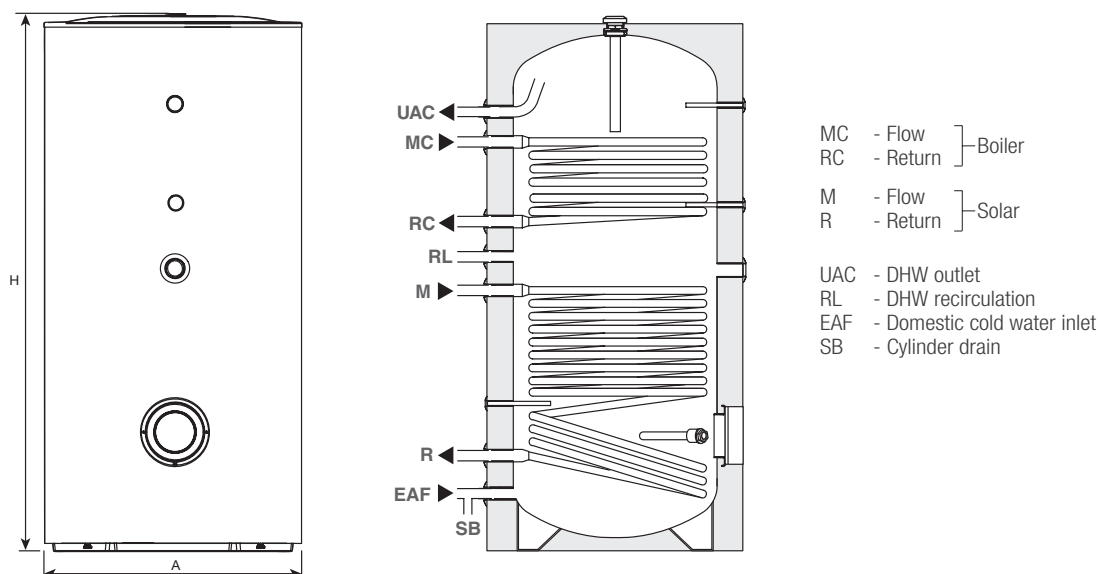
Technical specifications

DESCRIPTION	IDRA N DS 1500	IDRA N DS 2000	IDRA N DS 2600	UOM
Cylinder capacity	1390	1950	2572	l
Cylinder diameter with insulation	1200	1300	1450	mm
Cylinder diameter without insulation	1000	1100	1250	mm
Height with insulation	2185	2470	2455	mm
Insulation thickness		100		mm
Probes socket diameter		8		mm
Lower coil water content	19.4	28.1	28.4	l
Upper coil water content	10.4	16.9	20.3	l
Lower coil exchange surface	3.4	4.6	4.6	m^2
Upper coil exchange surface	1.8	2.8	3.3	m^2
Lower coil absorbed power (*)	88	120	110	kW
Upper coil absorbed power (*)	47	73	79	kW
Heat loss (according to EN 12897/2006 (**)	3.89	4.46	-	kWh/24h
Cylinder maximum working pressure		8		bar
Coil maximum working pressure	10		6	bar
Net weight with insulation	325	540	600	kg

(*) With ΔT = 20°C (80/60°C) on coil.
(**) At ΔT = 45°C, ambient 20°C and storage at 65°C.

Head losses
UPPER COIL

Head losses
LOWER COIL
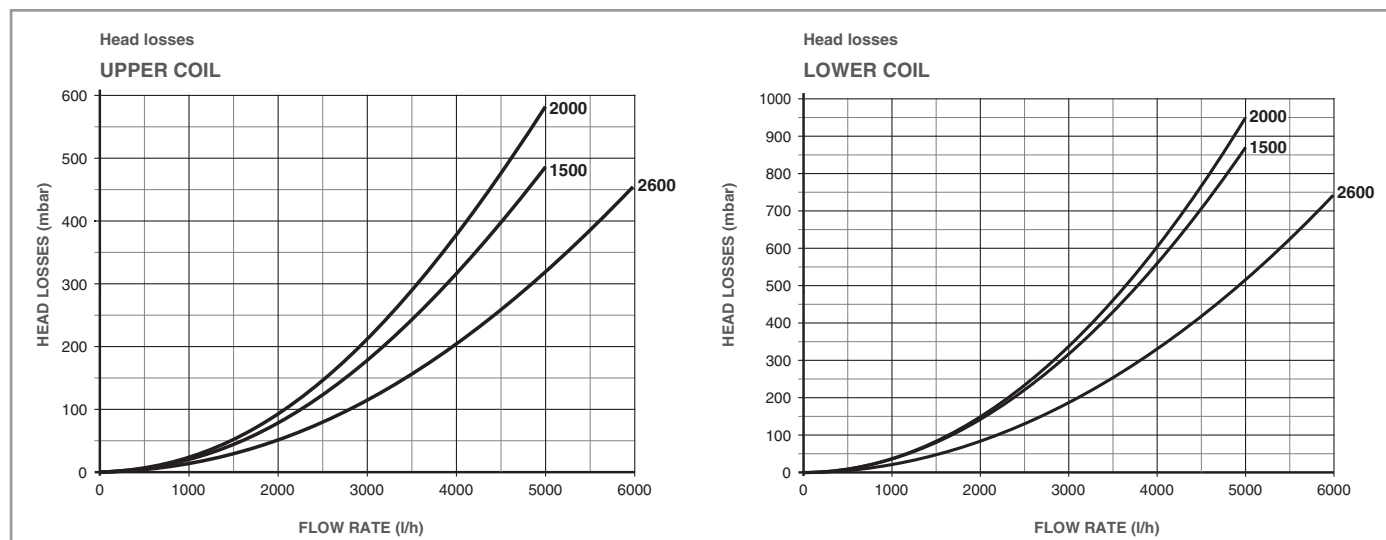
- Enamelled steel solar cylinder with flanges.
- Maximum working temperature 99 °C.
- Possibility to insert up to 3 coils.
- Coils kit with high heat exchanger capacity (accessories).
- Suitable for electrical resistance.
- Double magnesium anode included with the standard equipment.

Flanged cylinders with high storage capacity

ErP

CODE	MODEL	DIMENSIONS with insulation H × Ø (mm)	CYLINDER CAPACITY (litres)	HEAT LOSS (W)
20136280	IDRA PLUS DS 1000	2205 × 990	955 three flanges	142
20136282	IDRA PLUS DS 1500	2185 × 1200	1430 three flanges	162
20136285	IDRA PLUS DS 2000	2470 × 1300	1990 three flanges	186
20052796	IDRA PLUS DS 3000	2680 × 1450	2959 three flanges	344

Cylinders are supplied with flanges but without coils. To select the right coils consult the section below "Specific accessories".
For EXPANSION VESSELS see the dedicated section "ACCESSORIES FOR SOLAR THERMAL".

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
20055205	Tin coated copper coil kit 2.63 m² - 53kW - 1.74L - 10bar	20020707	Three-phase electrical resistance 3.8 kW, 1" 1/2
4383089	Tin coated copper coil kit 4.54 m² - 91kW - 3.56L - 10bar	20055206 (**)	Electrical anode kit 1/2"
4383087(*)	Tin coated copper coil kit 6.34 m² - 127kW - 5.10L - 10bar	20120499	Solar control box EVOSOL with probes
4383272	Single-phase electrical resistance 3 kW, 1" 1/2	20099595	Solar control box SUN 5 PRO 5 RS with probes
20079908	Single-phase electrical resistance 6.0 kW, 1" 1/2	20020778	Thermostatic mixing valve 1" with 3/4" adapter

(*) Not suitable for IDRA PLUS DS 1000.
(**) To connect the electrical anode kit, provide a reduction (not supplied as standard) from 1" ¼ to ½".

N.B. The sacrificial magnesium anode should be periodically monitored and replaced.
N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

HYBRID SYSTEMS

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SYSTEM COMPLEMENTARY ITEMS

Solar cylinders
IDRA PLUS DS - FLANGED WITH HIGH STORAGE CAPACITY

Beretta
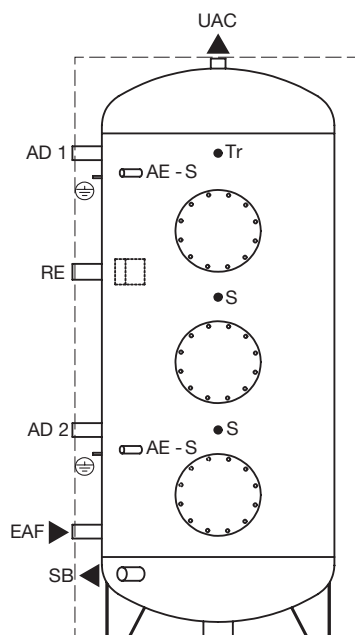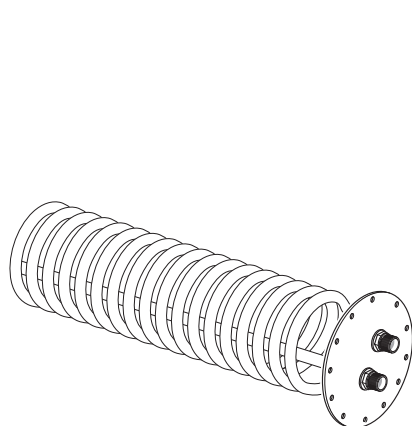
UAC   - DHW outlet
EAF   - Domestic cold water inlet
SB   - Storage cylinder drain
AE   - Electronical anode (optional)
RE   - Electrical resistance (not provided)
S   - Probe
Tr   - Thermometer
AD1   - Magnesium anode
AD2   - Magnesium anode

Technical specifications

	IDRA PLUS DS 1000	IDRA PLUS DS 1500	IDRA PLUS DS 2000	IDRA PLUS DS 3000	UOM
Heat-exchangers lay-out	Horizontal				
Cylinder capacity	955	1430	1990	2959	l
Cylinder diameter with insulation	990	1200	1300	1450	mm
Cylinder diameter without insulation	790	1000	1100	1250	mm
Height with insulation	2205	2185	2470	2680	mm
Insulation thickness	100				mm
First magnesium anode (diameter/length)	32x700				mm
Second magnesium anode (diameter/length)	-	32x400	32x700		mm
Flange diameter	290/220				mm
Probes sockets diameter/lenght	8/200				mm
Electrical resistor (not provided) socket	1" 1/2				Ø
Cylinder maximum working pressure	10	8			bar
Heat loss (according to EN 12897/2006 (*)	3.408	3.888	4.465	8.26	kWh/24h
Net weight	190	305	325	543	kg

(*) At ΔT = 45°C, ambient 20°C and storage at 65°C.

HEAD LOSSES

1,21 m²

0,8 m²

2,63 m²

6,34 m²

4,54 m²

head losses (mbar)

flow rate (m³/h)
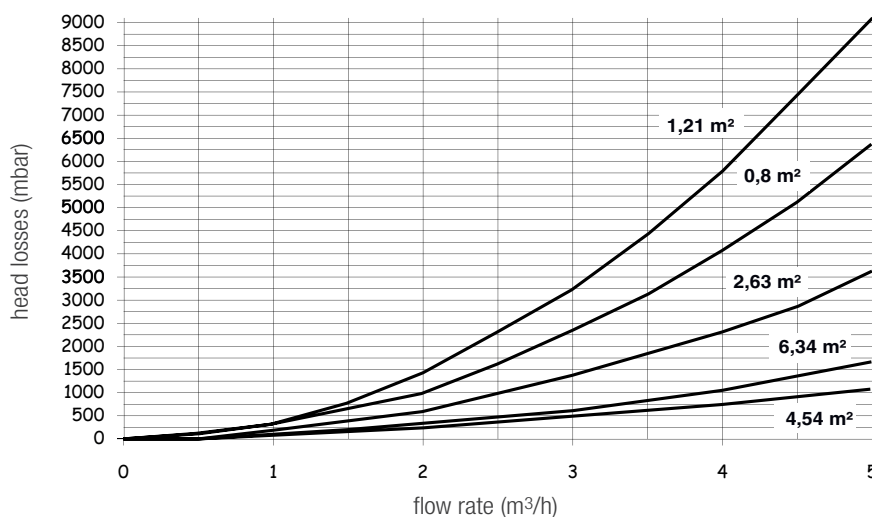
- Enamelled DHW tank, ideal to be matched with Beretta wall-hung boilers R.A.I./R.S.I. ('only heating' models).
- Supplied with high thermal-exchange coil.
- Wide range to meet all DHW needs.
- Magnesium anode supplied as standard.
- Double magnesium anode supplied as standard on BV 1000 model.

Single coil DHW tank

CODE	MODEL	DIMENSIONS H x Ø (mm)	DHW TANK CAPACITY (litres)	HEAT LOSS (W)	ENERGY CLASS ≋
20101895	IDRA BV 200	1330x605	210	58	B
20101897	IDRA BV 300	1830x605	304	68	B
20101899	IDRA BV 430	1630x755	444	73	B
20101900	IDRA BV 550	1980x755	556	84	B
20101901	IDRA BV 800	1835x1000	735	93	B
20101902	IDRA BV 1000	2165x1000	890	98	B

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
1220599	Socket probe for DHW tank	4383052	DHW expansion vessel 18 litres
1150529	¾" Mixing valve	4383053	DHW expansion vessel 24 litres
20001492	1" Mixing valve (with ¾" adapter)	4383054	DHW expansion vessel 35 litres

STRUCTURE

	DESCRIPTION
1	Magnesium anode
2	Thermometer
3	Heater
4	Coil
5	Adjustable foot
6	Insulation
7	Cover
8	Cap for anode inspection and handling
9	Cap for second anode inspection
Lt	Heater or PROBE heater THERMOSTAT BULB
M	Spring
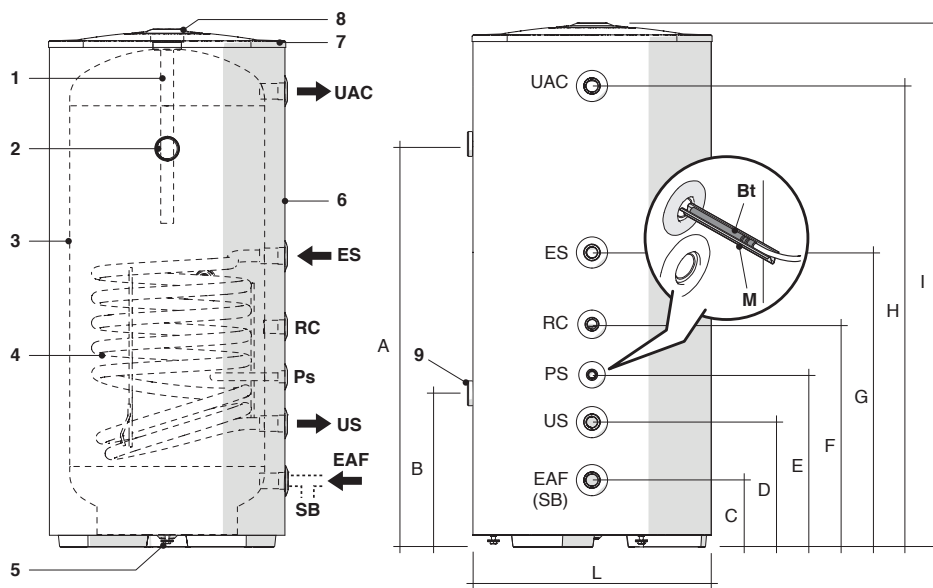
DIMENSIONS AND CONNECTIONS

DESCRIPTION	IDRA BV 200	IDRA BV 300	IDRA BV 430	IDRA BV 550	IDRA BV 800	IDRA BV 1000	U.O.M.
UAC - Domestic hot water outlet	1"F			1"1/4M			Ø
ES - Exchanger inlet	1"F		1"1/4F				Ø
RC - Domestic water recirculation	3/4"F				1"M		Ø
US - Exchanger outlet	1"F		1"1/4F				Ø
CWI (HD) - Domestic cold water inlet (heater drain)	1"F			1"1/4M			Ø
Ps - Probe pocket	16/175						Ø/L

	IDRA BV 200	IDRA BV 300	IDRA BV 430	IDRA BV 550	IDRA BV 800	IDRA BV 1000	U.O.M.
A	1025	1495	1305	1645	1470	1695	mm
B			-			550	mm
C	170	170	205	205	75	75	mm
D	315	315	405	405	355	355	mm
E	435	435	555	555	600	600	mm
F	565	805	780	780	825	910	mm
G	745	965	1005	1005	1125	1125	mm
H	1170	1670	1440	1785	1705	2030	mm
I	1335	1835	1645	1990	1835	2165	mm
L	605	605	755	755	1000	1000	mm

DESCRIPTION	IDRA BV 200	IDRA BV 300	IDRA BV 430	IDRA BV 550	IDRA BV 800	IDRA BV 1000	U.O.M.
Heater type	Glazed						
Heater layout	Vertical						
Exchanger layout	Vertical						
Heater capacity	210	304	444	556	735	890	l
Diameter/length of first magnesium anode	26/500		33/450		33/520	33/450	mm
Diameter/length of second magnesium anode	-					33/330	mm
Diameter/length of probe holder pockets	16/175						Ø mm
Maximum power absorbed							
Primary circuit at 80-70°C	24	34	52	52	71	71	kW
Primary circuit at 90-80°C	33	43	66	66	94	94	kW
Coil water content	4.8	6.9	9.8		16.3		l
Coil exchange surface	0.78	1.13	1.49		2.47		m²
Production of domestic water (Δ T 35°C)							
Primary circuit at 80°C	590	831	1260	1260	1700	1700	l/h
Primary circuit at 90°C	810	1070	1600	1600	2300	2300	l/h
Maximum coil operating pressure	10						bar
Specific output in 10 minutes	35	50	66	75	100	135	l/min
Heat dispersion	58	68	73	84	93	98	W
Maximum heater operating pressure	10				7		bar
Maximum operating temperature	99						°C
Net weight with insulation	68	91	121	142	182	207	kg
Energy efficiency class	B	B	B	B	B	B	

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

IDRA HP - FOR HEAT PUMPS AND SOLAR THERMAL

- Vertical storage tank in vitrified steel for DHW production.
- Ideal for application with heat pumps thanks to the increased surface of the coil heat-exchanger.
- Flange for solar coil heat-exchanger kit (available as option).
- Maximum working temperature 99 °C.
- Coils maximum working pressure: 6 bar.
- Suitable for electrical resistance.
- Magnesium anode included as standard.

DHW tanks ideal for heat pumps

ErP

CODE	MODEL	DIMENSIONS with insulation H × Ø (mm)	CYLINDER CAPACITY (litres)	HEAT LOSS (W)	INSULATION CLASS ≋
20117745	IDRA HP 300	1615 x 600	263 single coil	85	C
20117746	IDRA HP 500	1690 x 750	475 single coil	112	C

Accessories

CODE	DESCRIPTION
4383270	Single-phase electrical resistance 1.5 kW, 1" 1/2
4383272	Single-phase electrical resistance 3 kW, 1" 1/2
20020778	Thermostatic mixing valve 1" with 3/4" adapter

CODE	DESCRIPTION
4383504	Solar coil heat exchanger kit for IDRA HP 300
4383505	Solar coil heat exchanger kit for IDRA HP 500

N.B. The sacrificial magnesium anode should be periodically monitored and replaced.
N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

IDRA HP - FOR HEAT PUMPS AND SOLAR THERMAL

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
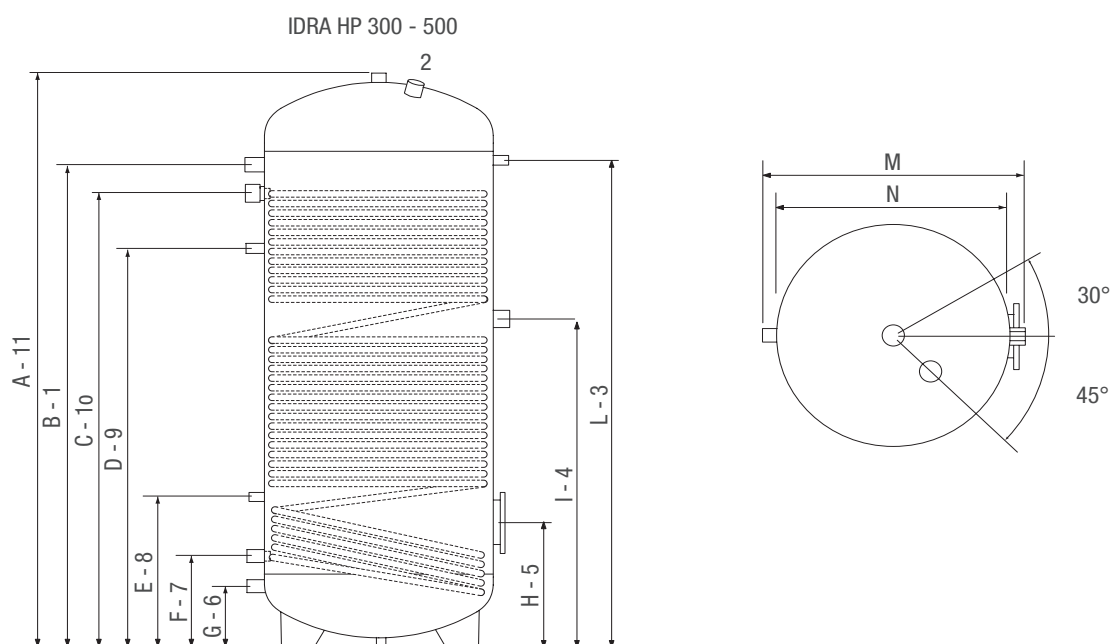
IDRA HP 300 - 500

Technical specifications

DESCRIPTION	IDRA HP 300	IDRA HP 500	UOM
Tank type	vitrified	vitrified	-
Tank lay-out	vertical	vertical	-
Heat exchanger lay-out	vertical	vertical	-
Coil exchange surface	4	6	m²
Tank maximum working pressure	6		bar
Coil water content	23	51.5	l
Coil maximum working pressure	6	6	bar
Coil absorbed max power (80/60°C)	96	156	kW
Maximum working temperature	99		°C
Insulation thickness in CFC-free expanded polyurethane	50		mm
Inspection flange diameter	180/120		Ø/mm
Empty weight	119	166	kg
Cylinder capacity	263	475	l
Heat loss (according to EN 12897/2006 (at ΔT = 45°C, ambient 20°C and storage at 65°C)	85	112	W
	2.04	2.69	kWh/24h
Insulation CLASS	C	C	-

	DESCRIPTION	IDRA HP 300	IDRA HP 500	UOM
1	DHW OUTLET	1"	1"	inch
2	Anode	1"1/4	1"1/4	inch
3	Probe thermometer	1/2"	1/2"	inch
4	Electrical resistance	1"1/2	1"1/2	inch
5	Flange	180/120	180/120	Ø/mm
6	Cold water INLET	1"	1"	inch
7	Coil RETURN	1"	1"1/4	inch
8	Probe	1/2"	1/2"	inch
9	Recirculation	1/2"	1/2"	inch
10	Coil OUTLET	1"	1"1/4	inch
11	DHW OUTLET	1"1/4	1"1/4	inch
(12)	blind pallet connection	1/2"	1/2"	inch

	IDRA HP 300	IDRA HP 500	UOM
A	1615	1690	mm
B	1390	1415	mm
C	1310	1325	mm
D	1165	1170	mm
E	395	425	mm
F	220	265	mm
G	140	185	mm
H	340	370	mm
I	945	970	mm
L	1390	1425	mm
M	600	750	mm
N	500	650	mm

- Designed for forced circulation solar systems to supplement the heating system.
- Production of DHW through an additional external heat exchange module "ACS" (see dedicated pages).
- STOR M and STOR tanks are not suitable for DHW storage.
- Tank and coil maximum working temperature: 99°C.
- Eight fittings at different heights for the use of different types of heat generators for the best stratification.
- Buffer tank and insulation are delivered in separate packages for STOR models.
- STOR M models: supplied with heat exchange solar coil and insulation as standard equipment.
- STOR models: through a standard flange it is possible the insertion of an additional heat exchange solar coil, available as accessory.

N.B. This picture only represents STOR M. For STOR models see drawing at the following page.

Buffer tanks with coil or flanged

ErP

CODE	MODEL	DIMENSIONS with insulation H × Ø (mm)	BUFFER TANK CAPACITY (litres)	HEAT LOSS (W)	ENERGY CLASS
BUFFER TANKS WITH COIL					
20055207	STOR 300 M	1635 × 700	283 with coil	93	C
20055208	STOR 500 M	1775 × 850	489 with coil	110	C
20136264	STOR 1000 M	2190 × 990	920 with coil	143	-
20136265	STOR 1500 M	2165 × 1200	1410 with coil	167	-
FLANGED BUFFER TANKS (WITHOUT COIL)					
20136258	STOR 2000	2480 × 1300	2010	190	-
20001409	STOR 3000	2720 × 1450	2959	344	-
20001410	STOR 5000	2870 × 1800	5055	646	-

For EXPANSION VESSELS see the dedicated section "ACCESSORIES FOR SOLAR THERMAL".

Accessories

CODE	DESCRIPTION
20055205	Tin coated copper coil kit 2.63 m²(*) - 53kW - 1.74L - 10bar
4383089	Tin coated copper coil kit 4.54 m²(*) - 91kW - 3.56L - 10bar
4383087	Tin coated copper coil kit 6.34 m²(*) - 127kW - 5.10L - 10bar

(*) To use only with STOR 2000, STOR 3000 and STOR 5000.

N.B. Beretta strongly recommend to connect the tanks to the electrical earth of the plant.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Buffer tanks
STOR M and STOR - WITH COIL OR FLANGED

STOR M

STOR

1 - Soft insulation (100 mm thick) in CFC-free polyurethane
2 - Vent/flow connection (Ø 1"1/4F)
3 - Flow/return connection (Ø 1"1/2F)
4 - Probes sockets (Ø 8 mm)
5 - Solar collector flow connection (Ø 1"F)
6 - Solar collector return connection (Ø 1"F)
7 - Tank
8 - Coil
9 - Inspection flange
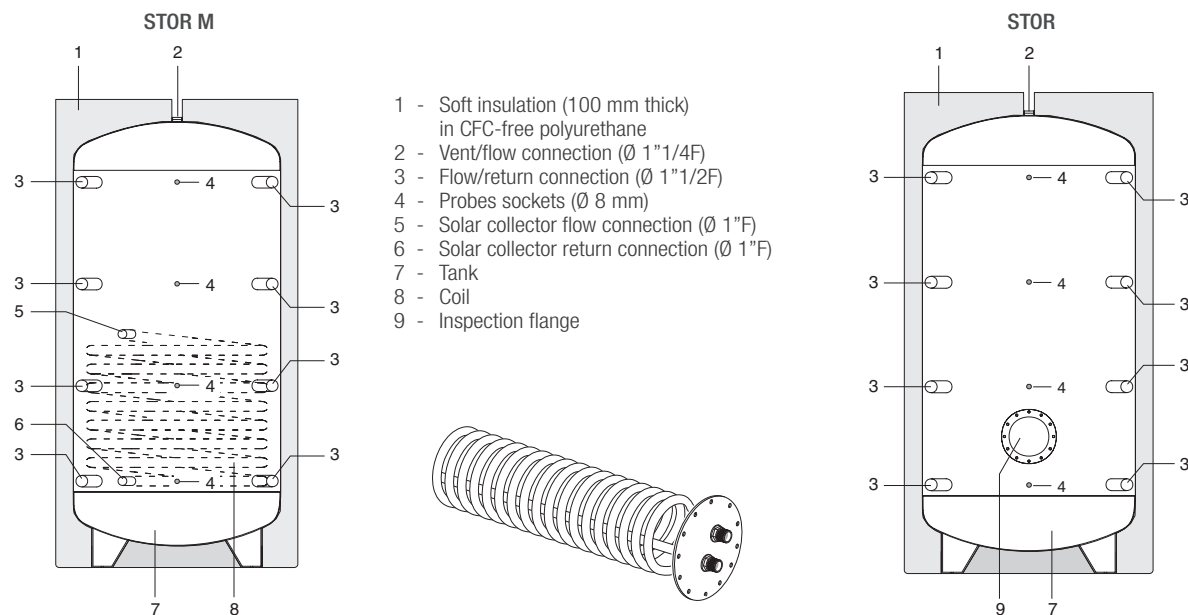
Technical specifications

SPECIFICATIONS	STOR 300 M	STOR 500 M	STOR 1000 M	STOR 1500 M	STOR 2000	STOR 3000	STOR 5000	UOM
Heat-exchanger layout	Vertical				-	-	-	
Buffer tank capacity	283	489	920	1410	2010	2959	5055	l
External diameter with insulation	700	850	990	1200	1300	1450	1800	mm
Height with insulation	1635	1775	2190	2165	2480	2720	2870	mm
Insulation thickness	100							mm
Flange diameter (external/internal)	-	-	-	-	290/220	290/220	290/220	mm
Probes sockets diameter	8							mm
Coil water content	10.4	10.4	14.6	21.6	-	-	-	l
Coil heat-exchange surface	1.8	1.8	2.6	3.8	-	-	-	m²
Coil absorbed power (*)	43	45	68	99	-	-	-	kW
Tank maximum working pressure	3							bar
Coil maximum working pressure	6	6	6	6	-	-	-	bar
Heat loss according to EN 12897/2006 (**)	2.232	2.64	3.43	4.01	4.56	8.256	15.504	kWh/24h
Net weight with insulation	115	140	180	245	290	415	570	kg

(*) With ΔT = 20°C (80/60°C) on coil. **(**)** At ΔT = 45°C, ambient 20°C and storage at 65°C.

STOR M HEAD LOSSES

STOR 1500 M
STOR 1000 M
STOR 300 M
STOR 500 M
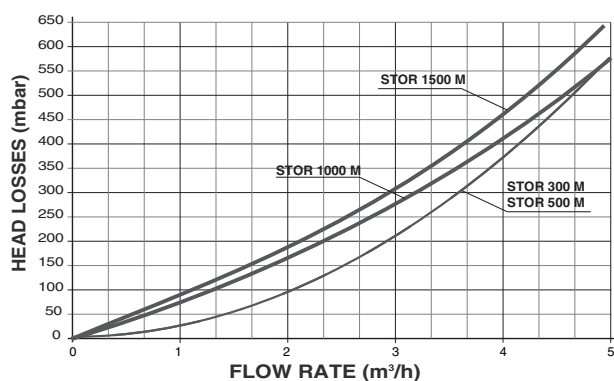
HEAD LOSSES OF STOR EXCHANGE COIL (ACCESSORY)

STOR 2000-3000-5000
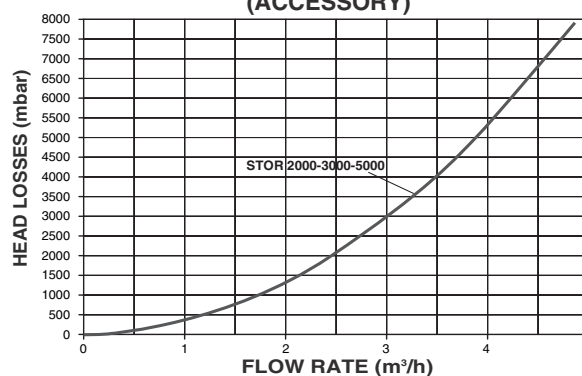
- Inertial cold/hot water buffer tank, **ideal to be used in systems with heat pumps, solar thermal, biomass boilers**.
- It can be easily fitted into systems where Beretta boilers work as an auxiliary heat generator.
- The fittings are positioned at different heights for use in high and low temperature circuits.
- Possibility to integrate an electrical resistance.

Inertial cold/hot water buffer tank

ErP

CODE	DESCRIPTION	DIMENSIONS H x Ø (mm)	STORAGE VOLUME (litres)	HEAT LOSS (W)	ENERGY CLASS
20056180	STOR H 200	1395 × 550	203	68	C
20056181	STOR H 300	1560 × 600	277	82	C
20056182	STOR H 400	1540 × 700	390	105	C
20056183	STOR H 500	1840 × 700	473	114	C

Accessories

CODE	DESCRIPTION	CODE	DESCRIPTION
4383270	Single-phase electrical resistance kit 1.5 kW, 1" 1/2	4383272	Single-phase electrical resistance kit 3 kW, 1" 1/2
4383271	Single-phase electrical resistance kit 2.2 kW, 1" 1/2	20020707	Three-phase electrical resistance kit 3.8 kW, 1" 1/2

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Buffer tanks for systems with heat pumps
STOR H

Beretta

Mod. 200 - 300 - 400

Mod. 500

Mod. 200 - 300 - 400

Mod. 500
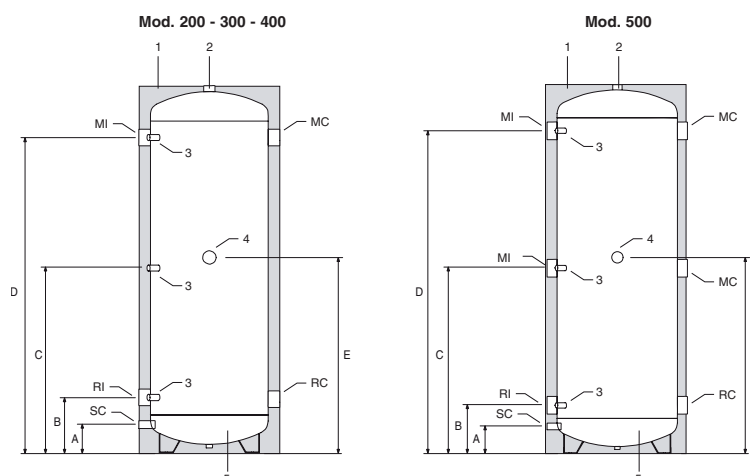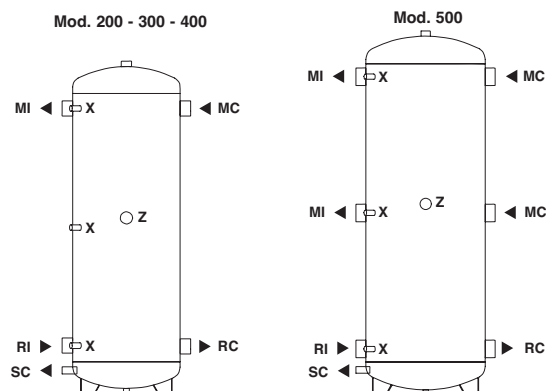
Technical specifications

DESCRIPTION		STOR H 200	STOR H 300	STOR H 400	STOR H 500
Buffer tank type		Not enamelled			
Buffer tank lay-out		Vertical			
Storage volume	l	203	277	390	473
External diameter with insulation	mm	550	600	700	700
Height with insulation	mm	1395	1560	1540	1840
Insulation thickness	mm	50			
Tank maximum working pressure	bar	6			
Tank maximum working temperature	°C	99			
Heat losses	W	68	82	105	114
Net weigth with insulation	kg	45	55	95	95
Gross weight (package included)	kg	64	75	116	118
1 - Insulation (polyurethane)	mm	50			
2 - Vent valve fitting	Ø	1" 1/4 F			
3 - Probe sockets diameter	Ø	1/2" F			
4 - Sleeve for electric heating element (not supplied)	Ø	1" 1/2 F			
5 - Buffer tank		-			
MI - CH Flow	Ø	1" 1/2 F	2" F	2" 1/2 F	2" 1/2 F
RI - CH Return	Ø	1" 1/2 F	2" F	2" 1/2 F	2" 1/2 F
SC - Drain	Ø	1/2" F	3/4" F	3/4" F	3/4" F
RC - Boiler Return	Ø	1" 1/2 F	2" F	2" 1/2 F	2" 1/2 F
MC - Boiler Flow	Ø	1" 1/2 F	2" F	2" 1/2 F	2" 1/2 F
Z - Electrical heater fitting					
X - Probes sockets					
A	mm	105	120	135	135
B	mm	215	235	240	240
C	mm	705	785	775	925
D	mm	1200	1340	1310	1610
E	mm	750	830	820	970

SOLAR CONTROLS AND PUMP STATIONS

CONNECT SOLAR

CODE	DESCRIPTION
20116162	7.5 m CONNECT SOLAR R - only return hydraulic group (A)
20116161	7.5 m CONNECT SOLAR M/R - flow/return hydraulic group (B)
20156553	High Residual Head, Flow & Return solar hydraulic group (10 bar; 11 m) (C)
20158203	Hydraulic connections for RSS MR 14MT

(A) Only return hydraulic group for wall-mounting installation without solar control box, equipped with pump for PWM and ON/OFF management.

(B) Flow/return hydraulic group for wall-mounting installation, equipped with EVOSOL solar control box and PWM modulating pump.

(C) The group can provide high residual head for up to 35 m^2 of net solar collector area. Please refer to the product instruction manual for the performance group of the pump to correctly choose the pump station based on the designed flow rate of the solar thermal loop.

USEFUL HEAD AVAILABLE

Solar delivery and return station. Values referred to a mix of water and 30% glycol.

CONNECT SOLAR R and M/R
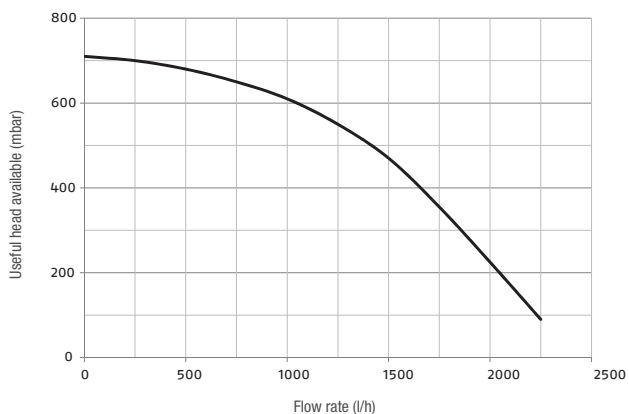
LE (head 14.5 m)
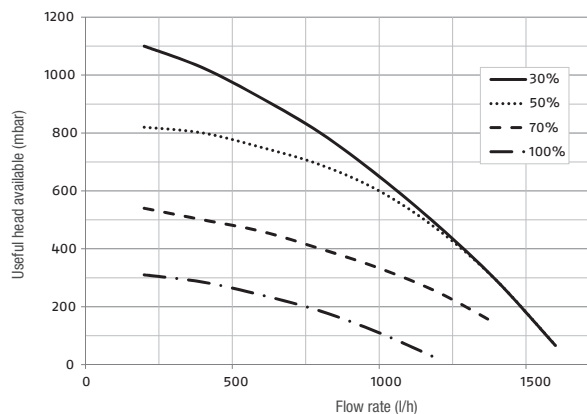
EVOSOL

CODE	DESCRIPTION
20120499	Solar control box EVOSOL with probes

Commercial name	No. of standard output relays	No. of Inlets for probes	No. of Probes supplied	No. of configurable system layouts
EVOSOL	2	4	1x collector + 2x heaters	9

SOLAR CONTROLS AND PUMP STATIONS

SUN PRO

CODE	DESCRIPTION
20099595	Solar control box SUN 5 PRO 5 RS with probes

Commercial name	No. of standard output relays	No. of Inlets for probes	No. of Probes supplied (*)	No. of configurable system layouts
SUN 5 PRO 5 RS	5	9	2x collector + 3x heaters	7 (+ variants)

(*) Specific probes for flat collectors.

Accessories

CODE	DESCRIPTION
20039694	SUN 1 thermostat with boiler probes
20125097	Additional solar probe for EVOSOL and SUN 5 PRO 5 RS control unit [1]
20123856	Additional heater probe for EVOSOL and SUN 5 PRO 5 RS control unit [1]

[1] The solar control boxes are already equipped with probes

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- Heat exchange unit on solar side
- Suitable for medium-sized solar systems
- Wall installation
- Can be used for two storages
- Effective for layering at two heights
- Solar control unit as standard
- Low-consumption circulating pumps as standard
- Electronic management of circulating pump on solar circuit
- Motorised diverting valve
- AISI 316 plate heat exchanger
- Complete with thermal insulation
- Complete with flow meter for visualisation
  of flow rate on storage side

Solar circuit heat exchange unit - technical water

CODE	MODEL	DIMENSIONS H X L X D (mm)	MANAGEABLE COLLECTOR SURFACE (m²)
20156326	SC SUN 50 (1)	600x400x250	20 *

(1) Available from April 2021
* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.

- Heat exchange unit on solar side
- Suitable for large solar systems
- Wall installation
- Can be used for two storages
- Effective for layering at two heights
- Solar control unit as standard
- Low-consumption circulating pumps as standard
- Electronic management (0-10 V) of circulating pump on solar circuit
- Motorised diverting valve
- Electronic flow meter for visualisation of flow rate on storage side
- Complete with thermal insulation
- AISI 316 plate heat exchanger

Solar circuit heat exchange unit - technical water

CODE	MODEL	DIMENSIONS H X L X D (mm)	MANAGEABLE COLLECTOR SURFACE (m²)
20156327	SC SUN 120 [1]	840x480x220	80 *

(1) Available from April 2021
* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.

Solar circuit heat exchange unit - domestic hot water

CODE	MODEL	DIMENSIONS H X L X D (mm)	MANAGEABLE COLLECTOR SURFACE (m²)
20156331	SC SUN 120 ACS [1]	840x480x220	80 *

(1) Available from April 2021
* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- Heat exchange unit for instantaneous production of domestic hot water in small and medium solar systems
- Wall installation
- Standard control unit (SC ACS 40, SC ACS 80)
- Thermostatic mixing valve as standard (SC ACS 25, SC ACS 35)
- Electronic temperature control (SC ACS 40, SC ACS 80)
- Low return temperature on primary circuit
- Low-consumption circulating pump as standard
- AISI 316 plate heat exchanger
- Possibility of cascade installation
- Possibility of recirculation kit installation

Technical water - domestic hot water heat exchange unit

CODE	MODEL	DIMENSIONS H X L X D (mm)	DOMESTIC WATER PRODUCTION (*) (litres/min.)
20156322	SC ACS 25 [1]	600x400x250	19
20156324	SC ACS 35 [1]	600x400x250	28
20156325	SC ACS 40 [1]	600x400x250	38
20182669	SC ACS 80 [1]	835x475x226	60

[1] Available from April 2021
* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.

Accessories

CODE	DESCRIPTION
20083502	Recirculation kit SC ACS 25 and SC ACS 35 [1]
20182673	Recirculation kit SC ACS 40 [2]
20182676	Recirculation kit SC ACS 80 [3]
20182674	Cascade kit 2 x SC ACS 40 [4]
20182675	Cascade kit 3 x SC ACS 40 [4]
20182677	Cascade kit 2 x SC ACS 80 [5]
20182678	Cascade kit 3 x SC ACS 80 [5]

[1] Use only one recirculation kit both in case of single SC ACS and in case of SC ACS in cascade.
[2] Use the recirculation kit only in case of single SC ACS 40.
[3] Use the recirculation kit only in case of single SC ACS 80.
[4] SC ACS 40 cascade kit includes the recirculation kit.
[5] SC ACS 80 cascade kit includes the recirculation kit.

- Heat exchange unit for instantaneous production of domestic hot water
- Suitable for large solar systems
- Control unit as standard
- Low return temperature on primary circuit
- Two low-consumption circulating pumps as standard
- Electronic management (0-10 V) of circulating pump on solar circuit
- Modulating circulating pump for DHW recirculation
- AISI 316 plate heat exchanger

Technical water - domestic hot water heat exchange unit

CODE	MODEL	DIMENSIONS H X L X D (mm)	DOMESTIC WATER PRODUCTION (*) (litres/min.)
20176021	SC ACS 160 [1]	1.100X1.000x469	100
20156329	SC ACS 225 [1]	1.100X1.000x469	150

[1] Available from April 2021
* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.
Delivery time of the material if not available in stock: up to 30 working days from order validation date.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SOLAR THERMAL ACCESSORIES

![Beretta logo]

CODE	DESCRIPTION
Stainless steel and copper pipes	
1150619	Ø16 Flexible pipe 15m, connecting collector to cylinder [E]
20001451	Ø16 Flexible pipe 20m, connecting collector to cylinder [E]
20029277	Compensation joint kit
20007290	Fittings kit for flexible stainless-steel pipes (2.5m^2 solar collectors) [E]
20027289	Fittings kit for flexible stainless-steel pipes (2.5m^2 solar collectors)
20014661	Fittings kit for copper pipes (connection with 2.5m^2 solar Al frame collectors, and with solar cylinder)
20108734	Female ending fittings kit

(E) This code is available until stock is exhausted.

Notes

Beretta

HYBRID SYSTEMS

HEAT PUMPS

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CENTRALIZED HEATING

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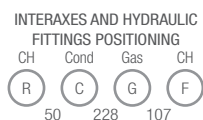
- **New bimetallic (stainless steel - copper) condensing heat exchanger.**
- Total premix burner with **low NOx emissions: Class 6** (UNI EN 15502).
- Low Energy modulating synchronous pump (ErP compliant - EEI≤0.20), 7m head, with anti-blockage cycles system.
- Built-in 18 lt. expansion vessel (on 35 R.S.I. model).
- 18 lt. internal expansion vessels available as option (for the 50 DEP R.S.I., 50 R.S.I. and 50 models).
- Built-in 3 ways valve with anti-blockage cycles system (on the models 35 R.S.I, 50 DEP R.S.I., 50 R.S.I.).
- Climatic thermoregulation as standard with outdoor probe (as option).
- Management of three circuits: high temperature, low temperature and DHW tank.
- ΔT flue/water return: max 5°C.
- LPG conversion kit available as as standard.

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

CH	Cond	Gas	CH
R	C	G	F
50	228	107	

Premix condensing

CODE	GAS	MODEL	DIMENSIONS H x W x D (mm)	CH INPUT (Hs) MIN-MAX (kW)	CH INPUT (Hi) MIN-MAX (kW)	ENERGY CLASS
20124217	NG	POWER X 35 R.S.I.	915 x 510 x 375	5.8 - 35.0	5.2 - 31.5	A
20117322	NG	POWER X 50 DEP R.S.I.	915 x 510 x 375	15.0 - 38.6	13.5 - 34.8	A
20114815	NG	POWER X 50 R.S.I.	915 x 510 x 375	15.0 - 50.0	13.5 - 45.0	A
20114814	NG	POWER X 50	915 x 510 x 375	15.0 - 50.0	13.5 - 45.0	A

Accessories

CODE	DESCRIPTION
20119840	18 lt expansion vessel kit (for the 50 DEP R.S.I., 50 R.S.I. and 50 models)
20101895	IDRA BV 200 (B Class)
20101897	IDRA BV 300 (B Class)
20101899	IDRA BV 430 (B Class)

CODE	DESCRIPTION
20101900	IDRA BV 550 (B Class)
20101901	IDRA BV 800 (B Class)
20101902	IDRA BV 1000 (B Class)

Beretta modulating control system with remote boiler interface function (*) and possibility to be managed via App

CODE	DESCRIPTION
20143539	BeSMART WIFI CONTROL KIT (1)

CODE	DESCRIPTION
20143659	BeSMART CONTROL (2)

(*) Functions available only in case of OTBus connection with a Beretta boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode. For all information about BeSMART, its wide range of accessories and their compatibility with Beretta boilers, please refer to the first chapter of this catalogue "SMART SYSTEMS - BeSMART COMPATIBLE BOILERS TABLE".
(1) Complete kit for WiFi installation.
(2) Only BeSMART thermostat.

Technical data

FEATURES and MODELS		POWER X 35 R.S.I.	POWER X 50 DEP R.S.I.	POWER X 50 R.S.I	POWER X 50
Boiler function		heating only with built-in 3 ways valve			heating only
ErP ENERGY LABELLING SPECIFICATIONS (according to ERP regulation)					
Seasonal space heating energy efficiency class		A	A	A	A
Seasonal space heating energy efficiency	%	92.8	92.4	92.5	92.5
Sound power level inside	dB	53	58.2	58.2	58.2
SPECIFICATIONS					
Heat input ref. Hs (HHV) min-max	kW	5.8 - 35.0	15.0 - 38.6	15.0 - 50.0	15.0 - 50.0
Heat input ref. Hi (NHV) min-max	kW	5.2 - 31.5	13.5 - 34.8	13.5 - 45.0	13.5 - 45.0
Useful heat output ref. Hi (NHV) (80 - 60 °C)	kW	30.90	34.37	44.20	44.20
Useful heat output ref. Hi (NHV) (50 - 30 °C)	kW	34.00	37.70	48.50	48.50
Quantity of condensate (50 - 30 °C) NG	l/h	4.8	5.1	6.6	6.6
Useful efficiency ref. Hi (NHV) (80 - 60°C)	%	98.00	98.20	98.20	98.20
Useful efficiency ref. Hi (NHV) (50 - 30°C)	%	108.13	107.70	107.70	107.70
Useful efficiency at ref. HI (NHV) 30% (80 - 60 °C)	%	97.99	98.70	98.70	98.70
Useful efficiency at ref. HI (NHV) 30% (50 - 30 °C)	%	109.20	108.70	108.70	108.70
Losses via the chimney with the burner operating (80 - 60 °C)/(50 - 30°C)	%	1.3/0.61	1.3/0.9	1.3/0.9	1.3/0.9
Losses via the chimney with the burner off	%	0.1	0.1	0.1	0.1
Losses via the casing with the burner operating	%	0.2	0.5	0.5	0.5
Flue gas temperature	°C	Return temperature + max 5°C			
NOx	Class	6	6	6	6
CENTRAL HEATING					
Maximum operating pressure	bar	3	3	3	3
Range of boiler water temperature settings (min/max)	°C	10/80	10/80	10/80	10/80
Hydraulic residual head at 1000l/h	bar	0.6	0.6	0.6	0.6
ELECTRICAL SPECIFICATIONS					
Power supply	V/Hz	230/50	230/50	230/50	230/50
Index of electrical protection	IP	X4D	X4D	X4D	X4D
Fan power consumption	W	80	85	100	100
Pump power consumption	W	60	60	60	60
HYDRAULIC AND GAS CONNECTIONS					
CH flow	Ø	1"	1"	1"	1"
Gas inlet	Ø	3/4"	3/4"	3/4"	3/4"
CH return	Ø	1"	1"	1"	1"
TWIN FLUE PIPES AND AIR INTAKE Ø80					
Max length	m	25 + 25	25 + 25	25 + 25	25 + 25
Loss due to the insertion of a bend 90°/45°	m	3/1	3/1	3/1	3/1
DIMENSIONS AND WEIGHT					
Boiler dimensions (H x L x P)	mm	915 x 510 x 375	915 x 510 x 375	915 x 510 x 375	915 x 510 x 375
Dry weight	kg	50	55	55	55
Available gas versions		NG/LPG	NG/LPG	NG/LPG	NG/LPG

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Accessories - Hydraulic/electrical components and safety devices

Power X can be installed in different configurations, according to your installation needs. Beretta offers a complete range of accessories, designed to be perfectly combined with Power X range.

REF.	CODE	DESCRIPTION
1	20028472	Taps for system
2	20028473	Hydraulic manifold for safety kit (*)
3	20028474	Safety kit (*)
4	20043895	Gas safety cut-off valve 200kW (*)
5	20028475	Hydraulic header separator for single application
6	20028476	3-way valve kit for DHW tank for single application
7	20123886	Connection kit for DHW tank return (for RSI versions)
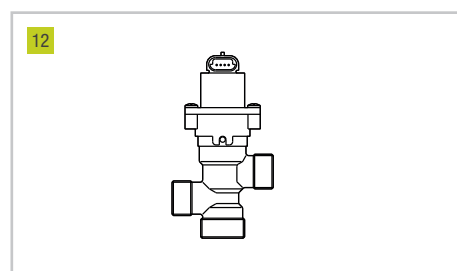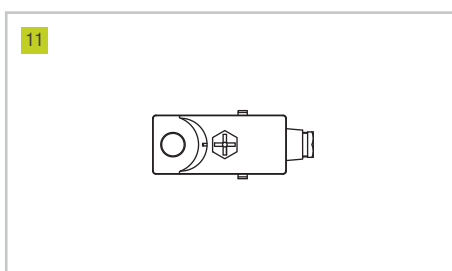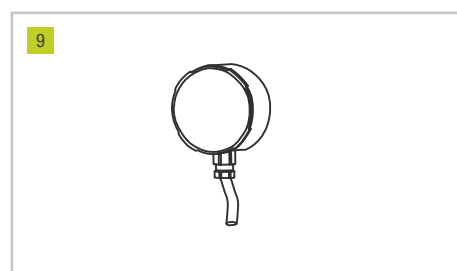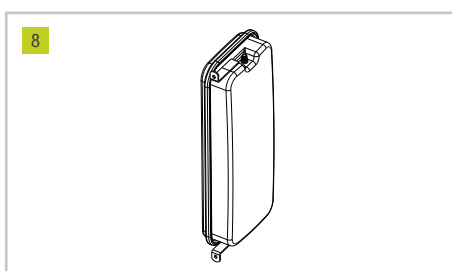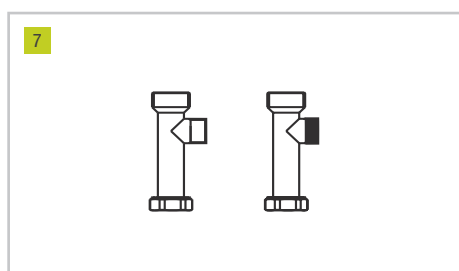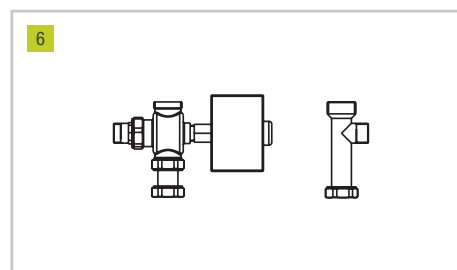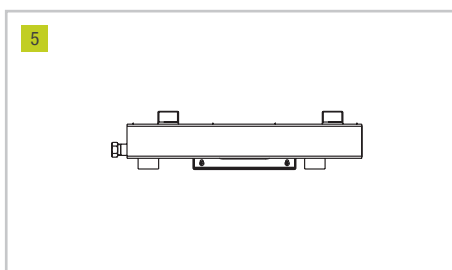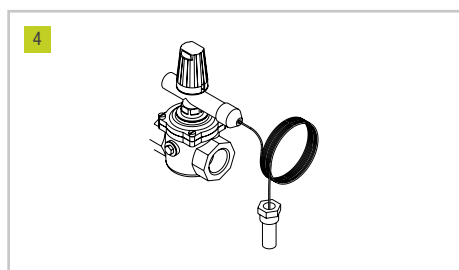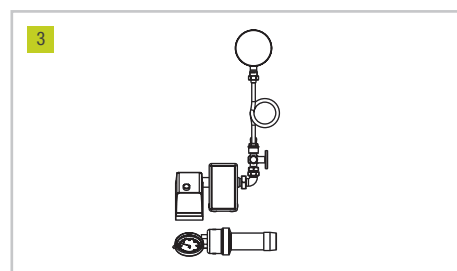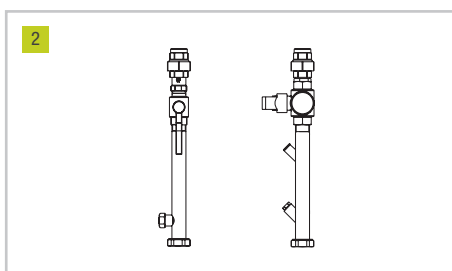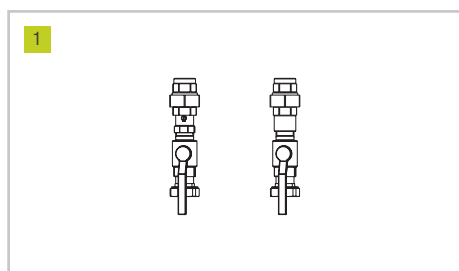
REF.	CODE	DESCRIPTION
8	20119840	18 lt expansion vessel kit
9	20166652	External probe kit
10	1220599	Well probe for DHW tank and for Low Temp. zone
11	1220639	Limit thermostat for low temperature applications
12	20128368	Motorized mixing valve kit

(*) According to I.N.A.I.L. Italian Safety Certification Institute (mandatory only on the Italian market), the kit is composed by: type-approved safety thermostat with manual reset [100(0-6°C)]; type-approved thermometer (0-120°C); thermometer wellduct; type-approved safety valve (3.5 bar); type-approved safety pressure switch with manual reset; type-approved manometer-holder 3-ways tap; damper coil; type-approved manometer (0-6 bar); brass fitting connection.

Accessories - Supports for installation

REF.	CODE	DESCRIPTION
14	20046101	Power X rig (front mounting)
15	20047606	Rear mounting kit for free-standing application
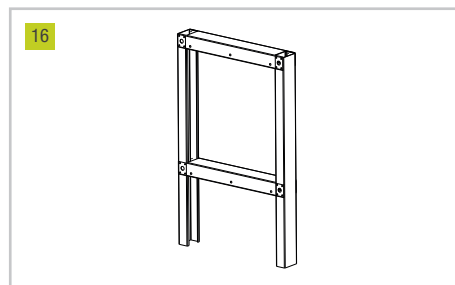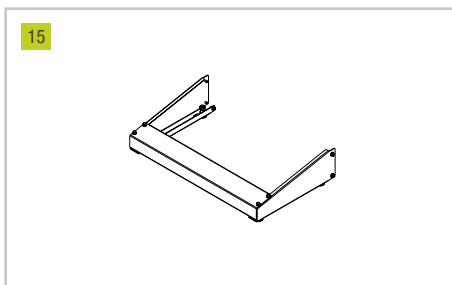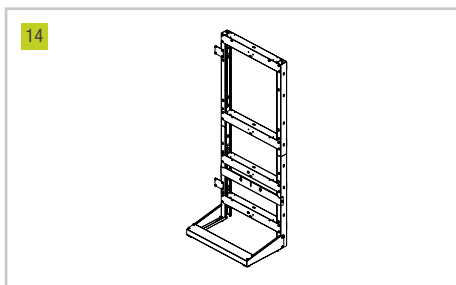
REF.	CODE	DESCRIPTION
16	20120468	Rear spacer frame kit (*) for wall-hung application (in case of concentric flue systems)

(*) In case of use of the concentric flue ranges Ø60/100 or Ø80/125, with flue exit from the back side wall of the boiler, via a 90° bend, it is necessary to purchase the rear spacer frame kit, code 20120468 (75.5 mm depth).

Accessories - Flue adapters

REF.	CODE	DESCRIPTION
		FLUEs / AIR INTAKE
17	20137538	Air-intake kit B23
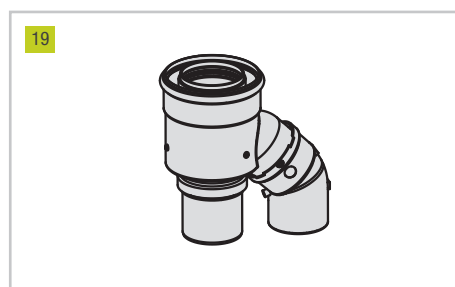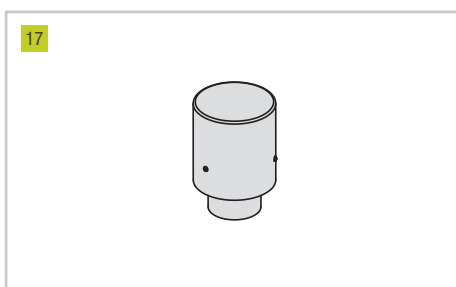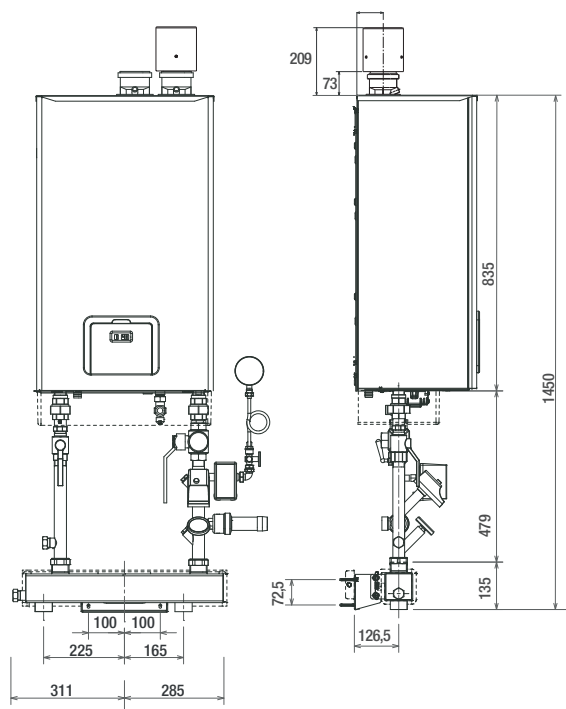
REF.	CODE	DESCRIPTION
18	20137535	Flue adapter kit from Ø80-80 to Ø60/100
19	20137536	Flue adapter kit from Ø80-80 to Ø80/125

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POWER X 50: Configuration for Central Heating only

CODE	DESCRIPTION	Q.TY
20114814	Power X 50 (A)	1
20166652	External probe kit	1
20028473	Hydraulic manifold for safety kit (B)	1
20028474	Safety kit (B)	1
20043895	Gas safety cut-off valve 200kW	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation (C)	1

(A) Inside the Power X 50, it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) Optional safety component, according to I.N.A.I.L. Italian Safety Certification Institute (mandatory only on the Italian market).

(C) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adapter kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary. In case of use of the concentric flue ranges Ø60/100 or Ø80/125, with flue exit from the back side wall of the boiler, via a 90° bend, it is necessary to purchase the rear spacer frame kit, code 20120468 (75.5 mm depth).

POWER X 50: Configuration for Central Heating and DHW tank (with external 3-ways valve)

CODE	DESCRIPTION	Q.TY
20114814	Power X 50 (A)	1
20166652	External probe kit	1
20028473	Hydraulic manifold for safety kit (B)	1
20028474	Safety kit (B)	1
20043895	Gas safety cut-off valve 200kW (B)	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation (C)	1
20028476	3-way valve kit for DHW tank	1
1220599	Well probe for DHW tank and for Low Temp. zone	1

(A) Inside the Power X 50, it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) Optional safety component, according to I.N.A.I.L. Italian Safety Certification Institute (mandatory only on the Italian market).

(C) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adapter kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary. In case of use of the concentric flue ranges Ø60/100 or Ø80/125, with flue exit from the back side wall of the boiler, via a 90° bend, it is necessary to purchase the rear spacer frame kit, code 20120468 (75.5 mm depth).

Power X 50 DEP R.S.I. /POWER X 50 R.S.I.: Configuration for Central Heating and DHW tank

CODE	DESCRIPTION	Q.TY
20117322	Power X 50 DEP R.S.I. (A)	1
20166652	External probe kit	1
20028472	kit rubinetti intercettazione impianto per 50 DEP R.S.I.	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation	1
20123886	Connection kit for DHW tank return (for RSI versions) (C)	1
1220599	Well probe for DHW tank and for Low Temp. zone	1

(A) The configuration illustrated in this page can be applicated also with POWER X 50 R.S.I. (code 20114815). Inside the Power X boilers range (except for Power X 35 R.S.I.), it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adapter kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary. In case of use of the concentric flue ranges Ø60/100 or Ø80/125, with flue exit from the back side wall of the boiler, via a 90° bend, it is necessary to purchase the rear spacer frame kit, code 20120468 (75.5 mm depth).

(C) Inside the R.S.I. models of Power X range, the 3-way valve for DHW tank management is already built-in (like in this condiguration).

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POWER X 50: Configuration for Central Heating only
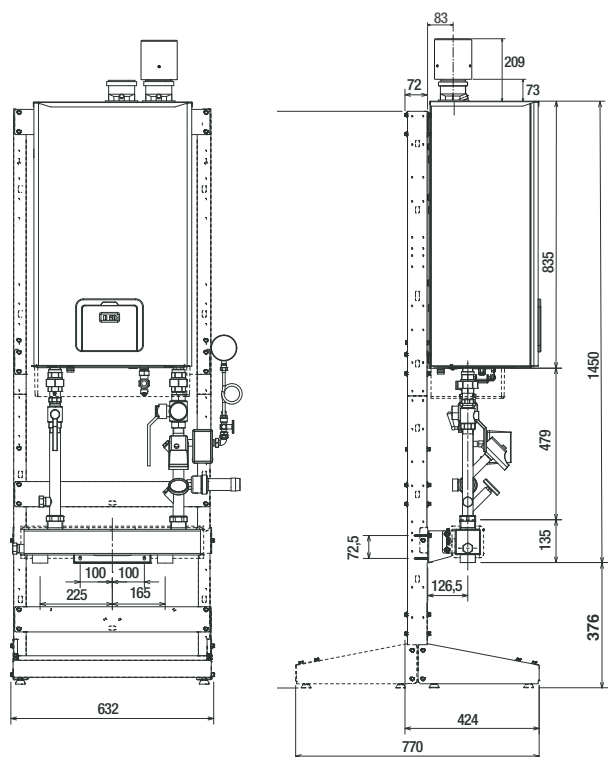
CODE	DESCRIPTION	Q.TY
20114814	Power X 50 (A)	1
20166652	External probe kit	1
20028473	Hydraulic manifold for safety kit (B)	1
20028474	Safety kit (B)	1
20043895	Gas safety cut-off valve 200 kW (B)	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation (C)	1
20046101	Power X rig (front mounting)	1
20047606	Rear mounting kit for free-standing application (D)	1

(A) Inside the Power X 50, it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) Optional safety component, according to I.N.A.I.L. Italian Safety Certification Institute (mandatory only on the Italian market).

(C) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adapter kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary.

(D) In case you don't need a free-standing application, but you wish to anchor the Power X rig to the wall, you don't need to purchase the rear mounting kit for free-standing installation, code 20047606.

POWER X 50: Configuration for Central Heating only and DHW tank (with external 3-ways valve)

CODE	DESCRIPTION	Q.TY
20114814	Power X 50 (A)	1
20166652	External probe kit	1
20028473	Hydraulic manifold for safety kit (B)	1
20028474	Safety kit (B)	1
20043895	Gas safety cut-off valve 200 kW (B)	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation (C)	1
20028476	3-way valve kit for DHW tank	1
1220599	Well probe for DHW tank and for Low Temp. zone	1
20046101	Power X rig (front mounting)	1
20047606	Rear mounting kit for free-standing application (D)	1

(A) Inside the Power X 50, it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) Optional safety component, according to I.N.A.I.L. Italian Safety Certification Institute (mandatory only on the Italian market).

(C) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adapter kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary.

(D) In case you don't need a free-standing application and you wish to anchor the Power X rig to the wall, you don't need to purchase the rear mounting kit, code 20047606.

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Power X 50 DEP R.S.I. /POWER X 50 R.S.I.: Configuration for Central Heating and DHW tank

CODE	DESCRIPTION	Q.TY
20117322	Power X 50 DEP R.S.I.(A)	1
20166652	External probe kit	1
20028472	Taps kit for system	1
20028475	Hydraulic header separator kit	1
20137538	Air-intake kit for B23 installation (B)	1
20123886	Connection kit for DHW tank return (for RSI versions) (C)	1
1220599	Well probe for DHW tank and for Low Temp. zone	1
20046101	Power X rig (front mounting)	1
20047606	Rear mounting kit for free-standing application (D)	1

(A) The configuration illustrated in this page can be applicated also with POWER X 50 R.S.I. (code 20114815).
Inside the Power X boilers range (except for Power X 35 R.S.I.), it is possible to insert, in the proper compartment, the optional expansion vessel kit of 18 lt. (code 20119840).

(B) The Power X configurations can be completed with the flue options Ø80 mm of the section FLUES for CONDENSING BOILERS of the International Product Catalogue. As an alternative, you can use the concentric flue options Ø60/100 mm (by purchasing the flue adapter kit from Ø80-80 to Ø60/100, code 20137535) or the concentric flue options Ø80/125 mm (by purchasing the flue adaptor kit from Ø80-80 to Ø80/125 code 20137536). In both cases, the accessory air-intake kit B23, code 20137538, is not necessary.

(C) Inside the R.S.I. models of Power X range, the 3-ways valve for DHW tank management is already built-in (like in this condiguration).

(D) In case you don't need a free-standing application and you wish to anchor the Power X rig to the wall, you don't need to purchase the rear mounting kit, code 20047606.
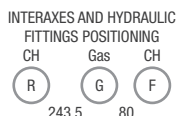
■ **New condensing high power boiler range that can be installed both as stand-alone or as cascade configuration.**
■ New condensing heat exchanger in stainless steel.
■ **Low NOx: Class 6** According to European Directive UNI EN 15502.
■ **Thanks to embedded 'Managing/Depending' control logic, any boiler can be configured either as the 'Managing' or as a 'Depending' boiler within the cascade (same product code).**
■ **Possibility to cascade up to 1120 kW.**
■ Built-in thermoregulation with external probe supplied as option.
■ Modulating and modular power regulation.
■ Automatic burner ignition sequence reversal (at adjustable steps).
■ Simultaneous control of two different circuits: DHW tank and high temperature.
■ **Management of up to 16 zones through an optional kit.**
■ Automatic summer/winter switch-over.
■ 'Anti-legionella' function as standard.
■ Suitable for remote control management (0-10V input or Modbus) via optional kit.
■ **Availability of a wide range of accessories for complete configurations.**
■ Can be converted to LPG through LPG kit supplied as standard.

INTERAXES AND HYDRAULIC FITTINGS POSITIONING
CH   Gas   CH
(R)   (G)   (F)
243.5   80

B3 type pre-mixed condensing boiler

ErP

CODE	LANGUAGE	MODEL	DIMENSIONS H × W × D (mm)	FLUE GAS (Ø mm)	OUTPUT NCV* (GCV)** min-max (kW)	CLASS
20128429	IT - EN					
20151855	FR					
20151865	PT	POWER MAX 50 P DEP	1000 × 600 × 435	80	9.0 - 34.9 (38.7)	A
20151883	PL - HU - RO					
20151891	SK - CZ - GR - SI - CR					
20128430	IT - EN					
20151857	FR					
20151866	PT	POWER MAX 50 P	1000 × 600 × 435	80	9.0 - 45.0 (50.0)	A
20151884	PL - HU - RO					
20151892	SK - CZ - GR - SI - CR					
20128431	IT - EN					
20151859	FR					
20151867	PT	POWER MAX 65	1000 × 600 × 435	80	14.0 - 57.0 (63.0)	A
20151885	PL - HU - RO					
20151893	SK - CZ - GR - SI - CR					
20128432	IT - EN					
20151860	FR					
20151870	PT	POWER MAX 80 P	1000 × 600 × 435	80	14.0 - 68.0 (76.0)	A
20151886	PL - HU - RO					
20151894	SK - CZ - GR - SI - CR					

(*) NCV = Net Calorific Value or Lower Calorific Value (LCV) - (**) GCV = Gross Calorific Value or Higher Calorific Value (HCV)

POWER MAX - THE RANGE

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B3 type pre-mixed condensing boiler

ErP

CODE	LANGUAGE	MODEL	DIMENSIONS H × W × D (mm)	FLUE GAS (Ø mm)	OUTPUT NCV* (GCV)** min-max (kW)	CLASS
20128433	IT - EN	POWER MAX 100	1000 × 600 × 435	110	19.4 - 90.0 (100.0)	-
20151861	FR					
20151872	PT					
20151887	PL - HU - RO					
20151895	SK - CZ - GR - SI - CR					
20128434	IT - EN	POWER MAX 110	1000 × 600 × 435	110	19.4 - 97.0 (108.0)	-
20151862	FR					
20151874	PT					
20151888	PL - HU - RO					
20151896	SK - CZ - GR - SI - CR					
20128435	IT - EN	POWER MAX 130	1170 × 600 × 435	110	22.4 - 112.0 (124.0)	-
20151863	FR					
20151880	PT					
20151889	PL - HU - RO					
20151897	SK - CZ - GR - SI - CR					
20128436	IT - EN	POWER MAX 150	1170 × 600 × 435	110	26.2 - 131.0 (146.0)	-
20151864	FR					
20151881	PT					
20151890	PL - HU - RO					
20151898	SK - CZ - GR - SI - CR					

(*) NCV = Net Calorific Value or Lower Calorific Value (LCV)   -   (**) GCV = Gross Calorific Value or Higher Calorific Value (HCV)
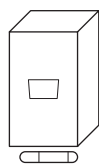
8
STAND-ALONE
configurations
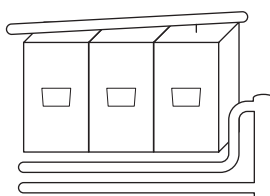
70
FRONT CASCADE
configurations
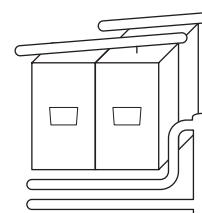
70
BACK-TO-BACK CASCADE
configurations

Power MAX range consists of **8 MODELS**, that can be installed either as stand-alone or in cascade configuration (front and back to back), totalling **148 configurations** in all.
ATTENTION:
Every model is available under different codes, according to the documentation language/s of the instruction manual supplied with the product.

Please select the right code of your model according to the documentation language you need:
- IT / EN (Italian / English)
- FR (French)
- PT (Portuguese)
- PL / HU / RO (Polish / Hungarian / Romanian)
- SK / CZ / GR / SI / CR (Slovak / Czech / Greek / Slovenian / Croatian)

A - CONFIGURATION GUIDE FOR STAND ALONE APPLICATION AND ACCESSORIES SELECTION

For the selection of the components of the stand alone configuration, please follow the flow chart below and refer to the relevant tables in the following pages.

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 Sealed chamber conversion kit

3.6 Flue system

3.7 Remote control

3.8 Treatment systems for condensate neutralization

1. Stand alone boiler configuration

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131

POWER MAX - SINGLE APPLICATION - SELECTION OF COMPONENTS

2. Accessories to complete the system

CODE	DESCRIPTION
20132778	External probe
20133102	Condensate drain trap kit for stand alone boiler [2]

[2] Kit not required for POWER MAX 50 P DEP and 50 P. Kit to be used for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 models

3. Optional accessories

3.1 Shunt pumps (only for 100÷150 kW)

CODE	DESCRIPTION
20125034	Injection pump kit POWER MAX 100 - 110 - 130 (115 Hi) [A] [B]
20125035	Injection pump kit POWER MAX 130 [A] [C]
20125040	High head injection pump kit POWER MAX 150 [A] [3]

[A] For POWER MAX 50 P DEP - 50 P - 65 P - 80 P models the pump is already present in the boiler
[B] The pump, which can be housed in the boiler, offers a high residual head on POWER MAX 100 and 110, and with these boilers it is also suitable in combination with the plate exchanger; if the pump is used with POWER MAX 130 (115 Hi) it allows the combination with the hydraulic separator but not with the plate exchanger
[C] If combined with POWER MAX 150, this circulation pump can be fitted inside the boiler and offers a very low residual head (10 mbar); it must be used ONLY in combination with the horizontal hydraulic separator code: 20131897
[3] This circulation pump cannot be fitted inside the boiler, it must be installed under the boiler

3.2 Additional safety devices

CODE	DESCRIPTION
20142219	SA installation kit for stand-alone boiler [1] [2]
20131898	Manifold kit with safety devices for stand alone boiler [4]
20143981	Safety valve kit 5.4 bar - 3/4" [5]
20131899	Tube kit for connection to hydraulic separator for stand alone boiler [5]

[1] **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 trap (1x code 20133102), Safety valve 5.4 bar (1x code 20143981) and 2 Ball Valves.
[2] Condensate drain trap (code 20133102) is not included in the boilers (except for POWER MAX 50 P DEP and 50 P).
[4] Includes all safety devices, including the CE and approved 1/2" safety valve and the 1" G fuel shut-off valve.
[5] To be used in Italy exclusively with POWER MAX 50 P DEP.

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3.3 Hydraulic separator or plate heat exchanger

CODE	DESCRIPTION
20131897	Horizontal hydraulic separator kit - for POWER MAX stand alone
20133224	Hydraulic separator cover kit - for POWER MAX stand alone
20125037	Two/three-way valve kit [6]
20131663	Frame kit for front cascades [E]
20131664	Frame conversion kit for BACK-TO-BACK cascades [E]
20132368	Plate exchanger kit for stand alone boiler POWER MAX 50 P DEP - 50 P [7]
20132369	Plate exchanger kit for stand alone boiler POWER MAX 65 P - 80 P [7]
20132370	Plate exchanger kit for stand alone boiler POWER MAX 100 - 110 [7]
20132371	Plate exchanger kit for stand alone boiler POWER MAX 130 (115 Hi) [7]
20132372	Plate exchanger kit for stand alone boiler POWER MAX 150 [7]
20136823	Delivery/return line fittings kit for direct installation (35-135 kW) [D]
20139239	Expansion reservoir kit for stand alone boiler POWER MAX 50 P DEP - 50 P
20145587	Cover for plate exchanger

[6] The two-way valve kit combined with the plate exchanger kit codes for stand alone boiler (except code 20132368) allows the direct production of DHW.
[7] It includes the plate exchanger and the connection trains; the plate exchanger always requires the frame kit code 20131663 and a pump with high residual head, therefore on boilers Power Max 130 and Power Max 150 it is necessary to use the high head circulating pump
[D] Kit compatible with all POWER MAX models in case of presence of kit and without the need of hydraulic separator
[E] The frame is necessary in case of installation with plate exchanger; if the frame kit is not fixed to the wall, it is necessary to buy also the kit for the use of the front and back frame code 20131664.

3.4 Secondary circuit management

CODE	DESCRIPTION
1220599	Secondary circuit/heater probe [A]
20136713	3-way valve kit for domestic hot water production for POWER MAX 50 P DEP
20125037	Two-way valve kit for POWER MAX 100 - 110 - 130 (115 Hi) - 150 [C]
20130811	Electronic kit for management of single direct or additional mixed zone (max 16) [B]

Note: BeSMART Comfort Controls can be used for room temperature adjustment
[A] Probe necessary for the boiler or to control the secondary circuit, with temperature alignment with the one set for the primary circuit
[B] The kit includes the necessary probe for the mixed zone
[C] The two-way valve kit combined with the plate exchanger kit codes for stand alone boiler (except code 20132368) allows the direct production of DHW

3.5 Sealed chamber conversion kit

CODE	DESCRIPTION
20131665	Type C conversion kit for POWER MAX 50 P DEP - 50 P - 65 P - 80 P
20131668	Type C conversion kit for POWER MAX 100 - 110 - 130 (115 Hi) - 150

3.6 Flue system

Accessories of flue gas exhaust Ø 80 mm for POWER MAX 50 P DEP - 50 P - 65 P - 80 P	
CODE	DESCRIPTION
20131270	Spacer kit for wall mounting [1]

(1) Kit necessary for wall rear concentric exhaust.
Note: for each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service.
For flue gas exhaust system refer to page 345.

3.7 Remote control

CODE	DESCRIPTION
20132366	POWER MAX remote control kit [7]

[7] Necessary for hourly programming of the heater and for programming of zones (also those managed by the additional zone kits)

3.8 Treatment systems for condensate neutralization

CODE	DESCRIPTION
4031811	Neutralization kit HN2 up to 270 kW [C] [D]
4031810	Neutralization kit N2 up to 450 kW [C]

[C] Delivery time of the material if not available in stock: up to 30 working days from order validation date.
[D] With condensate booster pump

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B - GUIDE TO SYSTEM CONFIGURATION WITH CASCADE BOILERS AND SELECTION OF ACCESSORIES

For selection of components for cascade configuration, follow the flowchart going to the corresponding tables

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 Remote control

4.11 Treatment systems for condensate neutralization

POWER MAX - CASCADE APPLICATION . CONFIGURATIONS

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1. Boiler cascade configuration

Output obtainable with cascade system installation.

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	Total cascade heat input (Hi)							
2	70	90	114	136	180	194	224	262
3	105	135	171	204	270	291	336	393
4	140	180	228	272	360	388	448	524
5	175	225	285	340	450	485	560	655
6	209	270	342	408	540	582	672	786
7	244	315	399	476	630	679	784	917
8	279	360	456	544	720	776	896	1048
9	314	405	513	612	810	873	1008	NA
10	349	450	570	680	900	970	1120	NA

Colour key

	Solution with the lowest number of boilers
	Solution that provides, for the same output, a greater number of boilers and therefore a greater modulation ratio
	Solution that provides the maximum modulation ratio for the same output
NA	Solution not available

It is not allowed to use different outputs for cascade applications

2. Selection of the layout FRONT or BACK-TO-BACK

3.1 FRONT
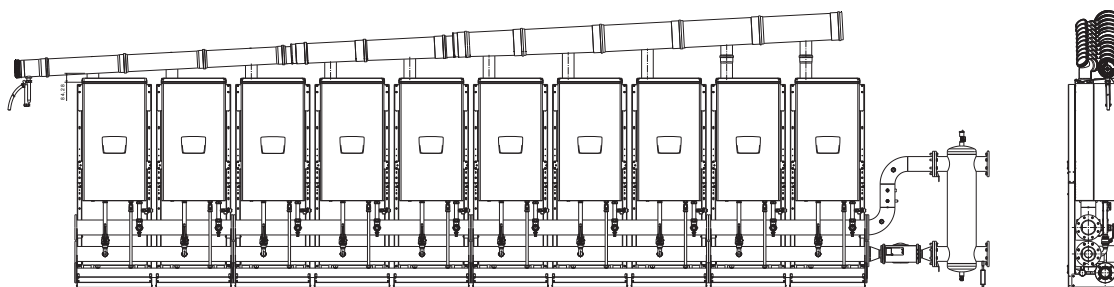
3.2 BACK-TO-BACK (A)
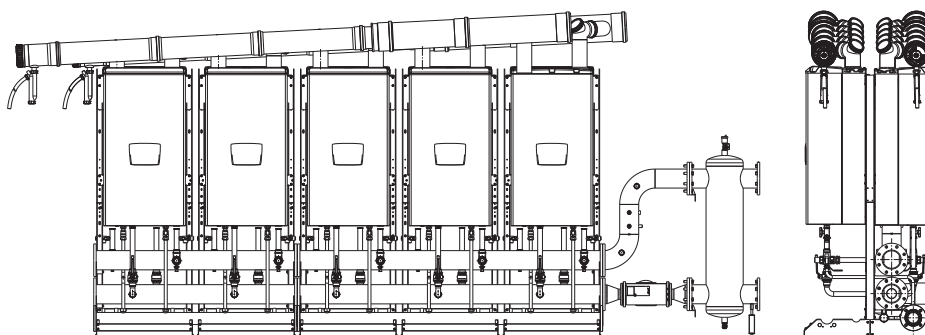
(A) To connect to a single chimney, use Y connections, choosing them from section "Cascade application - Flue"

3. Accessories to complete the system

CODE	DESCRIPTION
20132778	External probe [10]
20175716	Primary circuit probe [10]
20131267	Condensate drain trap kit for cascade boiler [11]
20151288	Set of manuals for the POWER MAX CASCADE (FR)
20151290	Set of manuals for the POWER MAX CASCADE (PT)
20151289	Set of manuals for the POWER MAX CASCADE (PL - HU - RO)
20151952	Set of manuals for the POWER MAX CASCADE (SK - CZ - GR - SI - CR)

[10] No.1 pc. for each cascade system, to be connected to the main boiler, i.e. the one that controls the cascade system
[11] To be ordered for each boiler of the cascade system (qty = no. of boilers)

Select the correct code according to the language of the documentation required:
- FR (French)
- PT (Portuguese)
- PL / HU / RO (Polish / Hungarian / Romanian)
- SK / CZ / GR / SI / CR (Slovak / Czech / Greek / Slovenian / Croatian)

4. Accessories

4.1 Support frame

FRONT CONFIGURATION	
CODE	DESCRIPTION
20131663	Frame kit for FRONT cascades
BACK-TO-BACK CONFIGURATION	
CODE	DESCRIPTION
20131663	Frame kit for FRONT cascades
20131664	Frame conversion kit for BACK-TO-BACK cascades

FRONT		BACK-TO-BACK		
No. of boilers	Q.ty of frames	No. of boilers	Q.ty of frames code 20131663	Q.ty of conversion kits code 20131664
2	2	2	1	1
3	3	3	2	2
4	4	4	2	2
5	5	5	3	3
6	6	6	3	3
7	7	7	4	4
8	8	8	4	4
9	9	9	5	5
10	10	10	5	5

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4.2 Shunt pumps (only for 100÷150 kW)

CODE	DESCRIPTION
20125034	Injection pump kit POWER MAX 100 - 110 - 130 (115 Hi) [A] [B] [12]
20125035	Injection pump kit POWER MAX 130 [A] [C]
20125040	High head injection pump kit POWER MAX 150 [A] [D] [13]

[A] For POWER MAX 50 P DEP - 50 P - 65 P - 80 P models the pump is already present in the boiler

[B] The pump, which can be housed in the boiler, offers a high residual head on POWER MAX 100 and 110, and with these boilers it is also suitable in combination with the plate exchanger; if the pump is used with POWER MAX 130 (115 Hi) it allows the combination with the hydraulic separator but not with the plate exchanger

[C] If combined with POWER MAX 150, this circulation pump can be fitted inside the boiler and offers a very low residual head (10 mbar); it must be used ONLY in combination with the horizontal hydraulic separator code: 20131897

[D] This circulation pump cannot be fitted inside the boiler, it must be installed under the boiler

[12] To be ordered for each boiler of the cascade system (qty = no. of boilers); pump to be installed inside the boiler

[13] To be ordered for each boiler of the cascade system (qty = no. of boilers); pump to be installed outside the boiler

4.3 Connection pipes

FRONT CONFIGURATION	
CODE	DESCRIPTION
20130658	Trains without shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [15]
20131124	Trains with shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [15] [A]
20131121	Trains without shut-off for POWER MAX 150 (external pump) [16]
20131125	Trains with shut-off for POWER MAX 150 (external pump) [16] [A]

[A] The "trains with shut-off" kits allow to exclude the single thermal module in order to proceed with its maintenance, while the other thermal modules continue to work

[15] To be ordered for each boiler of the cascade system (qty = no. of boilers) with pump or valve installed inside the boiler

[16] To be ordered for each boiler of the cascade system (qty = no. of boilers) with pump installed outside the boiler

POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Beretta

CODE	DESCRIPTION
BACK-TO-BACK CONFIGURATION	
20130658	Trains without shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [17]
20131124	Trains with shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [17] [A]
20131121	Trains without shut-off for POWER MAX 150 (external pump) [18]
20131125	Trains with shut-off for POWER MAX 150 (external pump) [18] [A]
20131787	Trains without shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 **BACK-TO-BACK** [19]
20131791	Trains with shut-off for POWER MAX 50 P DEP - 50 P - 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 **BACK-TO-BACK** [19] [A]
20131788	Trains without shut-off for POWER MAX 150 (external pump) **BACK-TO-BACK** [20]
20131792	Trains with shut-off for POWER MAX 150 (external pump) **BACK-TO-BACK** [20] [A]

[A] The "trains with shut-off" kits allow to exclude the single thermal module in order to proceed with its maintenance, while the other thermal modules continue to work
[17] To be ordered for each collector side boiler with pump or valve installed inside the boiler
[18] To be ordered for each collector side boiler with pump or valve installed outside the boiler
[19] To be ordered for each boiler opposite to the collectors with pump or valve installed inside the boiler
[20] To be ordered for each boiler opposite to the collectors with pump or valve installed outside the boiler

4.4 Water collectors (delivery/return) -gas-condensate

CODE	DESCRIPTION
20133220	Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 1 frame [21]
20130220	Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 2 frames (up to 485 kW) [22]
20130221	Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 3 frames (up to 485 kW) [22]
20130222	Kit of 5" flanged DN125 + flanged 3" flanged DN80 3" hydraulic collectors - for 2 frames (above 485 kW) [23]
20130223	Kit of 5" flanged DN125 + flanged 3" flanged DN80 3" hydraulic collectors - for 3 frames (above 485 kW) [23]
20132377	Collector and train cover kit - for single POWER MAX in cascade
20070903	Closing 3" cap kit [A]
20082190	Through 3" flange kit
20070907	Closing 5" cap kit [A]
20082191	Through 5" flange kit

[A] They allow the closure, on one side, of the gas collector and the two hydraulic collectors

[21] To be used only for BACK-TO-BACK configuration with no.2 boilers; it includes DN80 3" flanged delivery and return collectors, 2" threaded gas collector, condensate drain collector

[22] To be used with maximum output up to 485 kW. It includes DN80 3" flanged delivery and return collectors, 2" threaded gas collector, condensate drain collector

[23] To be used with maximum output over 485 kW. It includes DN 125 5" flanged delivery and return collectors, DN80 3" flanged gas collector, condensate drain collector

Combination table for cascade boiler heat input collectors

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	TOTAL CASCADE HEAT INPUT (kW) / DIAMETER OF HYDRAULIC COLLECTORS (inches)							
2	70/3"	90/3"	114/3"	136/3"	180/3"	194/3"	224/3"	262/3"
3	105/3"	135/3"	171/3"	204/3"	270/3"	291/3"	336/3"	393/3"
4	140/3"	180/3"	228/3"	272/3"	360/3"	388/3"	448/3"	524/5"
5	175/3"	225/3"	285/3"	340/3"	450/3"	485/3"	560/5"	655/5"
6	209/3"	270/3"	342/3"	408/3"	540/5"	582/5"	672/5"	786/5"
7	244/3"	315/3"	399/3"	476/3"	630/5"	679/5"	784/5"	917/5"
8	279/3"	360/3"	456/3"	544/5"	720/5"	776/5"	896/5"	1048/5"
9	314/3"	405/3"	513/5"	612/5"	810/5"	873/5"	1008/5"	-
10	349/3"	450/3"	570/5"	680/5"	970/5"	970/5"	1120/5"	-

Modular condensing wall-hung boilers for indoor application

POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

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Collector code selection table according to the number of boilers in cascade, FRONT configuration:

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	Hydraulic collector code selection for FRONT configurations							
2	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220
3	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221
4	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130222
5	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223
6	2 × 20130221	2 × 20130221	2 × 20130221	2 × 20130221	2 × 20130223	2 × 20130223	2 × 20130223	2 × 20130223
7	2 × 20130220 1 × 20130221	2 × 20130220 1 × 20130221	2 × 20130220 1 × 20130221	2 × 20130220 1 × 20130221	2 × 20130222 1 × 20130223	2 × 20130222 1 × 20130223	2 × 20130222 1 × 20130223	2 × 20130222 1 × 20130223
8	1 × 20130220 2 × 20130221	1 × 20130220 2 × 20130221	1 × 20130220 2 × 20130221	1 × 20130222 2 × 20130223	1 × 20130222 2 × 20130223	1 × 20130222 2 × 20130223	1 × 20130222 2 × 20130223	1 × 20130222 2 × 20130223
9	3 × 20130221	3 × 20130221	3 × 20130223	3 × 20130223	3 × 20130223	3 × 20130223	3 × 20130223	-
10	2 × 20130220 2 × 20130221	2 × 20130220 2 × 20130221	2 × 20130222 2 × 20130223	2 × 20130222 2 × 20130223	2 × 20130222 2 × 20130223	2 × 20130222 2 × 20130223	2 × 20130222 2 × 20130223	-

Collector code selection table according to the number of boilers in cascade, BACK-TO-BACK configuration

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	Hydraulic collector code selection for BACK-TO-BACK configurations							
2	1 × 20133220	1 × 20133220	1 × 20133220	1 × 20133220	1 × 20133220	1 × 20133220	1 × 20133220	1 × 20133220
3	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220
4	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130220	1 × 20130222
5	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130223	1 × 20130223
6	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130221	1 × 20130223	1 × 20130223	1 × 20130223	1 × 20130223
7	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130222	2 × 20130222	2 × 20130222	2 × 20130222
8	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130220	2 × 20130222	2 × 20130222	2 × 20130222	2 × 20130222
9	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	-
10	1 × 20130220 1 × 20130221	1 × 20130220 1 × 20130221	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	1 × 20130222 1 × 20130223	-

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4.5 Additional safety devices

CODE	DESCRIPTION
20070910	Manifold kit for 3" safety devices housing [A]
20070912	Manifold kit for 5" safety devices housing [A]
20071190	Safety devices kit
20023104	Safety valve up to 460 kW (5,4 bar ØG.¾" F)
20023106	Safety valve up to 580 kW (5,4 bar ØG.1" F)
20009486	Fuel shut-off valve - ø G.1" - TS=97°C - Capillary L=5 m [25]
20009482	Fuel shut-off valve - ø G.1" 1/2 - TS=97°C - Capillary L=5 m [26]
20009483	Fuel shut-off valve - ø G.2" - TS=97°C - Capillary L=5 m [27]
20061640	Fuel shut-off valve - ø G.3" - TS=97°C - Capillary L=5 m [28]

[A] Intended for use in cascade systems without primary circuit circulating pump
[25] Recommended up to maximum heat input of 131 kW, calculated considering gas supply pressure = 20 mbar
[26] Recommended up to maximum heat input of 230 kW, calculated considering gas supply pressure = 20 mbar
[27] Recommended up to maximum heat input of 580 kW, calculated considering gas supply pressure = 20 mbar
[28] Recommended up to maximum heat input of 1150 kW, calculated considering gas supply pressure = 20 mbar

Note: Calculation of the maximum permissible output of VICs with supply pressure of 20 mbar

Safety valve selection table:

Total cascade heat input (kW)	0 ÷ 460	461 ÷ 580	581 ÷ 920	921 ÷ 1160
(No.) Diameter of safety valve	1 × 3/4"	1 × 1"	2 × 3/4"	2 × 1"
	1× code 20023104	1× code 20023106	2× code 20023104	2× code 20023106

4.6. Hydraulic separator or plate heat exchanger

CODE	DESCRIPTION
20009467	Hydraulic 5" separator kit - up to 485 kW (3" connections) [29]
20069073	Hydraulic 10" separator kit - up to 580 kW (5" connections) [30]
20069074	Hydraulic 10" separator kit - up to 1120 kW (5" connections) [31]
20132373	Connection kit for plate exchanger (DN80 on 3" collector side /DN50 on plate exchanger side) [32]
20132375	Connection kit for plate exchanger (DN125 on 5" collector side /DN65 on plate exchanger side) [32]
20132376	Connection kit for plate exchanger (DN125 on 5" collector side /DN100 on plate exchanger side) [32]

[29] To be used with maximum output up to 485 kW in combination with 3" collectors
[30] To be used with maximum output above 485 and up to 580 kW in combination with 5" collectors
[31] To be used with maximum output above 580 kW and up to 1120 kW in combination with 5" collectors
[32] Connection kit with SP exchangers. For selection of the suitable plate exchanger, please contact the pre-sales service

4.7 Secondary circuit management

CODE	DESCRIPTION
1220599	Secondary circuit/heater probe [A] [**]
20130811	Electronic kit for management of single direct or additional mixed zone (max 16) [33] [**]

[A] Probe necessary for the heater or to control the secondary circuit, with temperature alignment with the one set for the primary circuit; probe also necessary to manage the additional mixed zones if secondary boilers (*) are used to control these zones
[33] Kit required if the number of direct or mixed heating zones is higher than the number of secondary boilers (*); the kit includes probe code 1220599 required for mixed zone
(*) All boilers in cascade are considered secondary boilers except one: the one intended to manage the cascade.
(**) The possibility, in case of boilers in cascade, to use the secondary boilers for management of additional zones instead of the kit 20130811 will be activated from 2019.
Note: use BeSMART Comfort Controls for room temperature adjustment

4.8 Sealed chamber conversion kit (type C)

CODE	DESCRIPTION
20131665	Type C conversion kit for POWER MAX 50 P DEP - 50 P - 65 P - 80 P
20131668	Type C conversion kit for POWER MAX 100 - 110 - 130 (115 Hi) - 150

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4.9 Flue gas exhaust systems

Code 20132391
Eccentric adaptor
ø160/200

Code 20132393
Eccentric adaptor
ø200/250

Code 20131903
Collector ø250
for 1 boiler

Code 20062338
Cascade terminal ø160
with condensate drain

Code 20131266
Collector ø160
for 1 boiler

Code 20131901
Collector ø200
for 1 boiler

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

Code 20131238
Adaptor
ø80/110
(only for
mod. 35+70)

Code 20164632
Clapet ø80/80
with syphon
(only for mod. 35+50)

For POWER MAX 50 P DEP - 50 P - 65 P - 80 P models

CODE	DESCRIPTION
20131238	Adapter Ø80/110 mm [35]
20164632	Wafer check valve Ø80/80 mm with trap [36]

[35] Required only for POWER MAX 50 P DEP - 50 P - 65 P - 80 P models

[36] Required only for POWER MAX 50 P DEP - 50 P models

POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Flue gas exhaust collectors Ø 160/200/250 mm for all POWER MAX models

CODE	DESCRIPTION
20062338	Cascade terminal ø160 with condensate drain
20131266	Collector ø160 for 1 boiler
20132391	Eccentric adapter ø160 / ø200
20131901	Collector ø200 for 1 boiler
20132393	Eccentric adapter ø200 / ø250
20131903	Collector ø250 for 1 boiler
20132381	Y connector ø160 / ø160 (use only for FRONT - REAR configuration)
20132384	Y connector ø160 / ø200 (use only for FRONT - REAR configuration)
20132385	Y connector ø160 / ø250 (use only for FRONT - REAR configuration)
20132386	Y connector ø200 / ø250 (use only for FRONT - REAR configuration)

FRONT configuration - Max 10 boilers
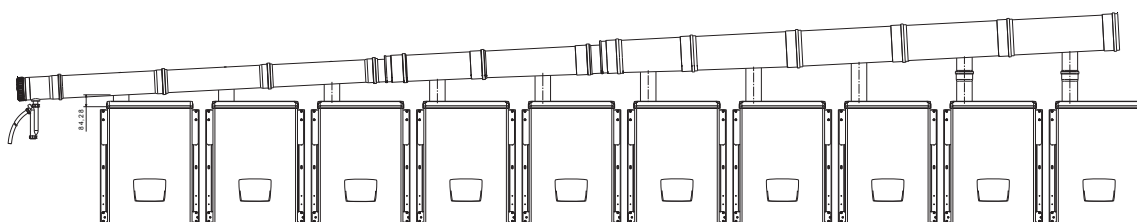
BACK-TO-BACK configuration - Max 5 + 5 boilers
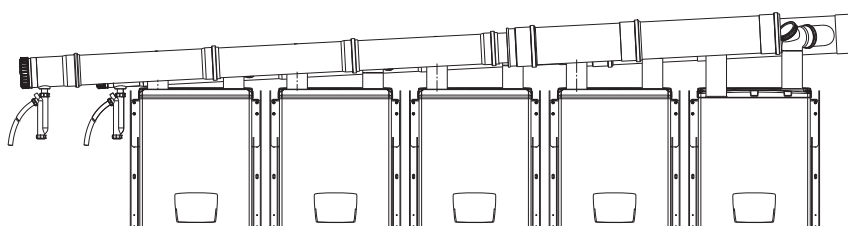
Note: the BACK-TO-BACK configuration has separate lines for each row of boilers, collector side and opposite side.

POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Combination table for flue gas collector diameters according to the no. of boilers on a single collector

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	DIAMETERS OF FLUE GAS/AIR COLLECTORS							
1	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160
2	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160
3	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160
4	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160	Ø 200
5	Ø 160	Ø 160	Ø 160	Ø 160	Ø 200	Ø 200	Ø 200	Ø 200
6	Ø 160	Ø 160	Ø 160	Ø 160	Ø 200	Ø 200	Ø 200	Ø 250
7	Ø 160	Ø 160	Ø 160	Ø 200	Ø 200	Ø 200	Ø 250	Ø 250
8	Ø 160	Ø 160	Ø 200	Ø 200	Ø 250	Ø 250	Ø 250	Ø 250
9	Ø 160	Ø 160	Ø 200	Ø 200	Ø 250	Ø 250	Ø 250	-
10	Ø 160	Ø 200	Ø 200	Ø 200	Ø 250	Ø 250	Ø 250	-

POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Collector code selection table according to the number of boilers in FRONT configuration

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	FLUE GAS COLLECTOR CODE SELECTION FOR FRONT CONFIGURATIONS							
2	2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	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	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	4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	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	5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	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	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 7 x 20131266	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 8 x 20131266	8 x 20131238 1 x 20062338 8 x 20131266	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 9 x 20131266	9 x 20131238 1 x 20062338 9 x 20131266	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	NA
10	10 x 20131238 1 x 20062338 10 x 20131266	10 x 20131238 1 x 20062338 8 x 20131266 1 x 20132391 1 x 20131901	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	NA

Note: in case of ducted intake and watertight combustion (type C) double the quantities indicated in the table.

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POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Beretta

Flue gas collector code selection table according to the number of boilers in BACK-TO-BACK configuration

Model	POWER MAX 50 P DEP	POWER MAX 50 P	POWER MAX 65 P	POWER MAX 80 P	POWER MAX 100	POWER MAX 110	POWER MAX 130 (115 Hi)	POWER MAX 150
Heat Input Boiler kW	34.9	45	57	68	90	97	112	131
No. of boilers	FLUE GAS COLLECTOR CODE SELECTION FOR BACK-TO-BACK 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 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	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	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	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	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384	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	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 20132381	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 20132381	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132381	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 20132381	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132381	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 20132391 2 x 20131901 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386	NA
10	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132381	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	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	NA

Note: in case of ducted intake and watertight combustion (type C) double the quantities indicated in the table.

4.10 Remote control

CODE	DESCRIPTION
20132366	POWER MAX remote control kit (34)

(34) Necessary for hourly programming of the heater and for programming of zones (also those managed by the additional zone kits)
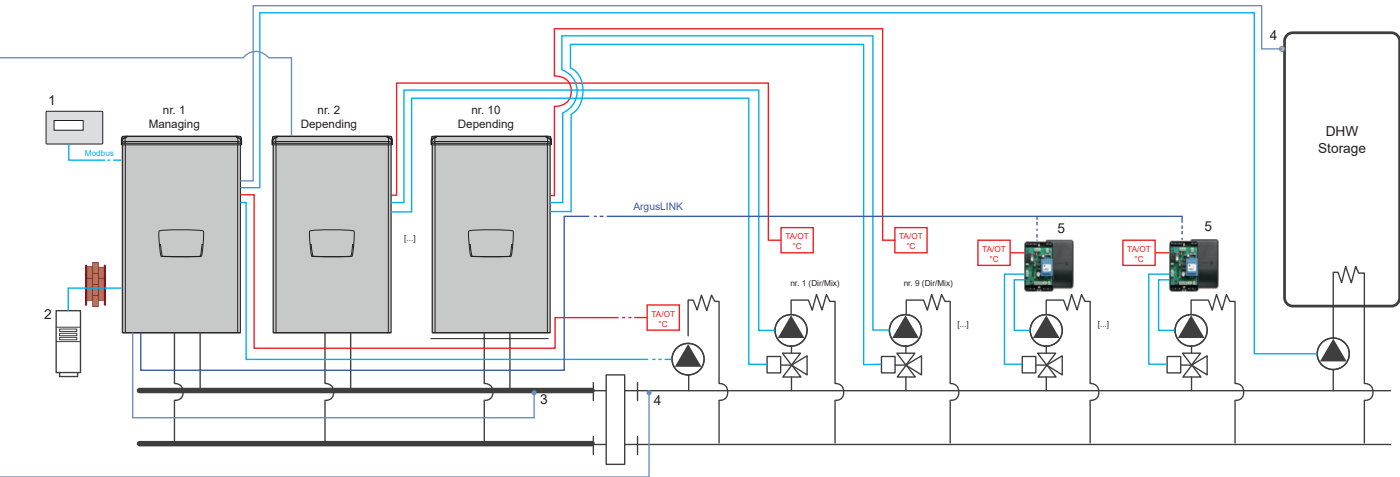
Key to layout
1. Remote control kit code 20132366
2. External probe code 20132778
3. Primary circuit probe code 20175716
4. Secondary circuit/heater probe code 1220599
5. Heating zone code 20130811

4.11 Treatment systems for condensate neutralization

CODE	DESCRIPTION
4031811	Neutralization kit HN2 up to 270 kW (A) (B)
4031810	Neutralization kit N2 up to 450 kW (A)
4031812	Neutralization kit N3 from 450 to 1500 kW (A)
4031813	Neutralization kit HN3 from 270 to 750 kW (A) (B)

(A) Delivery time of the material if not available in stock: up to 30 working days from order validation date
(B) Equipped with extraction pumps

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POWER MAX - DIMENSIONS

FRONT frame dimensions
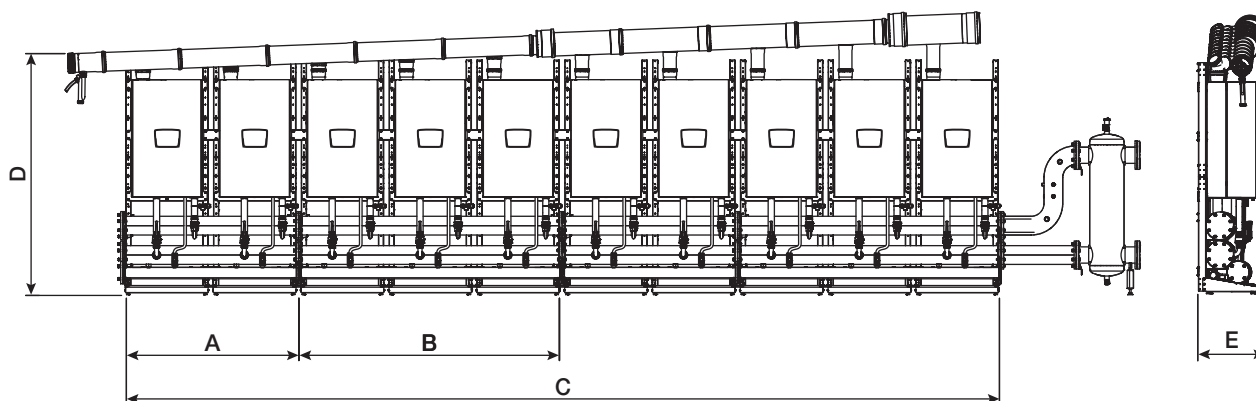
DESCRIPTION		Power Max System							
		50 P DEP	50 P	65 P	80 P	100	110	130	150
A	mm	1452	1452	1452	1452	1452	1452	1452	1452
B	mm	2245	2245	2245	2245	2245	2245	2245	2245
C (10 modules)	mm	7438	7438	7438	7438	7438	7438	7438	5942 (max 8 modules)
D (10 modules)	mm	2402	2402	2402	2402	2402	2402	2670	2514 (max 8 modules)
E	mm	525	525	525	525	525	525	525	525

Front and rear frame dimensions
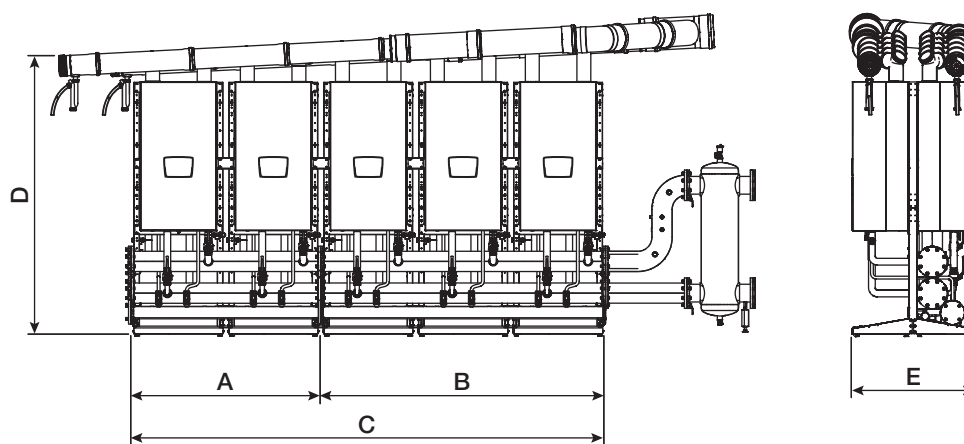
DESCRIPTION		Power Max System							
		50 P DEP	50 P	65 P	80 P	100	110	130	150
A	mm	1452	1452	1452	1452	1452	1452	1452	1452
B	mm	2245	2245	2245	2245	2245	2245	2245	2245
C (10 modules)	mm	3697	3697	3697	3697	3697	3697	3697	3697 (max 8 modules)
D (10 modules)	mm	2217	2217	2217	2217	2237	2237	2437	2437 (max 8 modules)
E	mm	970	970	970	970	970	970	970	970

- Indoor thermal modules in cabinet compatible with outdoor installation through optional roof kit
- NEW condensing heat exchanger made of stainless steel
- Total pre-mixing and low polluting emissions: class 6
- Possibility of front cascade up to 1310 kW
- Thermoregulation as standard with optional external probe
- Low-consumption modulating circulating pumps as standard (also with ΔT logic)
- Output modulating and modular adjustment
- Automatic reversal (at adjustable time intervals) of burner ignition order
- Simultaneous management of two circuits: heater, high temperature
- Management of up to 16 zones with optional kit
- Automatic summer/winter switch-over
- Anti-legionella function as standard
- Suitable for remote control management (0-10V input or Modbus) with optional kit
- Flue gas wafer check valve built in the boiler
- Optional kit for conversion to watertight chamber
- Standard equipment: electronic management and control adjustment, hydraulic delivery and return collectors, gas, flue gas and condensate drain collectors
- Availability of a wide range of system accessories
- LPG conversion kit supplied as standard

Pre-mixed open chamber condensing

CODE	LANGUAGE	MODEL	DIMENSIONS H × W × D (mm)	Delivered output 80°/60° max (kW)	Delivered output 50°/30° max (kW)	Furnace output min-max (kW)
INDOOR CABINETS - WITH MODULATING PUMP						
20141085	IT - EN	POWER MAX BOX 130-2 [1]	1800×900×890	111.4	123.8	13.7-114
20162211	PL - HU - RO					
20162231	ES - SI - CR					
20141086	IT - EN	POWER MAX BOX 160-2 [1]	1800×900×890	134.0	147.8	13.7-136
20162212	PL - HU - RO					
20162232	ES - SI - CR					
20141087	IT - EN	POWER MAX BOX 200-2 [1]	1800×900×890	176.6	194.8	19.4-180
20162213	PL - HU - RO					
20162233	ES - SI - CR					
20141088	IT - EN	POWER MAX BOX 260-2 [1]	1800×900×890	219.6	242.2	22.4-223.2
20162214	PL - HU - RO					
20162234	ES - SI - CR					
20141089	IT - EN	POWER MAX BOX 300-2 [1][4]	1800×900×890	258.0	284.2	26.3-262
20162215	PL - HU - RO					
20162235	ES - SI - CR					
20141090	IT - EN	POWER MAX BOX 330-3 [2]	1800×1800×890	285.9	315.3	19.4-291
20162216	PL - HU - RO					
20162236	ES - SI - CR					

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CODE	LANGUAGE	MODEL	DIMENSIONS H × W × D (mm)	Delivered output 80°/60° max (kW)	Delivered output 50°/30° max (kW)	Furnace output min-max (kW)
20141091	IT - EN	POWER MAX BOX 390-3 (2)	1800×1800×890	329.4	363.6	22.4-334.8
20162217	PL - HU - RO					
20162237	ES - SI - CR					
20141092	IT - EN	POWER MAX BOX 450-3 (2)(4)	1800×1800×890	387.0	426.3	26.3-393
20162218	PL - HU - RO					
20162238	ES - SI - CR					
20141093	IT - EN	POWER MAX BOX 520-4 (3)	1800×1800×890	439.2	484.4	22.4-446.4
20162219	PL - HU - RO					
20162239	ES - SI - CR					
20141095	IT - EN	POWER MAX BOX 600-4 (3)(4)	1800×1800×890	516.0	568.4	26.3-524
20162220	PL - HU - RO					
20162240	ES - SI - CR					

Delivery time for products and accessories if not available in stock: up to 30 working days from order validation date.
(1) Model with 2 heating elements
(2) Model with 3 heating elements
(3) Model with 4 heating elements
(4) Models that can be used for cascade systems

ATTENTION:
Every model is available under different codes, according to the documentation language/s of the instruction manual supplied with the product.

Please select the right code of your model according to the documentation language you need:
- IT / EN (Italian / English)
- PL / HU / RO (Polish / Hungarian / Romanian)
- ES / SI / CR (Spanish / Slovenian / Croatian)

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Floor-standing gas condensing units for indoor and outdoor application

POWER MAX BOX

Beretta

Technical drawings

MODEL	DIMENSIONS H×L×D (mm)	ØA (optional) (mm)	ØS (mm)	ØM	ØR	Net weight (kg)
POWER MAX BOX 130-2 P	1800x900x890	160	160	3"	3"	270
POWER MAX BOX 160-2 P	1800x900x890	160	160	3"	3"	270
POWER MAX BOX 200-2 P	1800x900x890	160	160	3"	3"	280
POWER MAX BOX 260-2 P	1800x900x890	160	160	3"	3"	300
POWER MAX BOX 300-2 P	1800x900x890	160 (300)	160 (300)	5"	5"	350
POWER MAX BOX 330-3 P	1800x1700x890	160	160	3"	3"	450
POWER MAX BOX 390-3 P	1800x1700x890	160	160	3"	3"	490
POWER MAX BOX 450-3 P	1800x1700x890	160 (300)	160 (300)	5"	5"	540
POWER MAX BOX 520-4 P	1800x1700x890	160	160	3"	3"	560
POWER MAX BOX 600-4 P	1800x1700x890	160 (300)	160 (300)	5"	5"	600
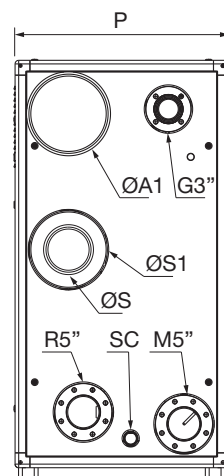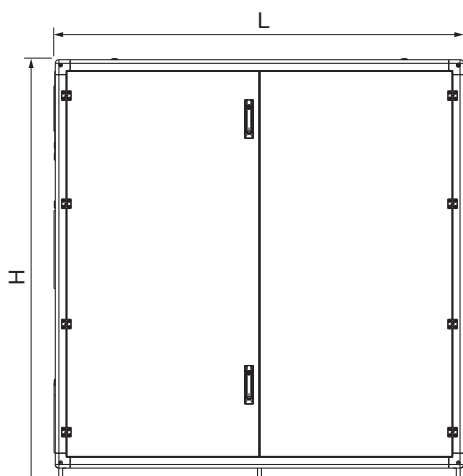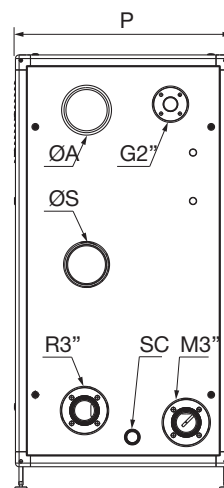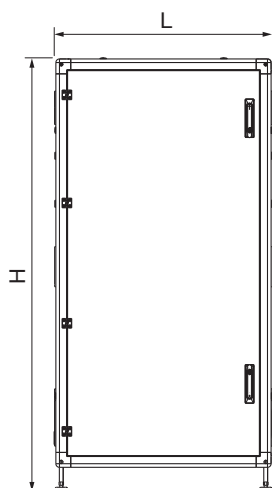
G = GAS
M= DELIVERY
R= RETURN
SC = CONDENSATE DRAIN

System configuration

GUIDE TO SYSTEM CONFIGURATION AND SELECTION OF ACCESSORIES

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 NEUTRALISATION

Floor-standing gas condensing units for indoor and outdoor application

POWER MAX BOX

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1. Boiler configuration

Output obtainable with STAND ALONE installation

Model	POWER MAX BOX									
	130-2 P	160-2 P	200-2 P	260-2 P	300-2 P	330-3 P	390-3 P	450-3 P	520-4 P	600-4 P
Heat Input Boiler kW	114	136	180	224	262	291	336	393	448	524

Output obtainable with CASCADE SYSTEM installation

Model	Power kW	POWER MAX BOX									
		130-2 P	160-2 P	200-2 P	260-2 P	300-2 P	330-3 P	390-3 P	450-3 P	520-4 P	600-4 P
POWER MAX BOX 750	655					1			1		
POWER MAX BOX 900	786					1					1
POWER MAX BOX 1050	917								1		1
POWER MAX BOX 1200	1048										2
POWER MAX BOX 1350	1179				1				1		1
POWER MAX BOX 1500	1310				1						2

2. Sealed combustion transformation kit (type c)

CODE	DESCRIPTION
20145144	Adapter Ø50/80 mm
20145141	Air tube kit for fan/collector connection Ø160 mm
20145137	Air tube kit for fan/collector connection Ø300 mm
20145185	Air collector for models Ø160 mm - for models with 2 thermal modules
20145186	Air collector for models Ø160 mm - for models with 3/4 thermal modules
20145187	Air collector for models Ø300 mm - for models with 2 thermal modules
20145189	Air collector for models Ø300 mm - for models with 3/4 thermal modules

Selection table of code quantities according to the cabinet model for watertight conversion

Model	20145144	20145141	20145137	20145185	20145186	20145187	20145189
POWER MAX BOX 130-2 P	2x•	2x•		1x•			
POWER MAX BOX 160-2 P	2x•	2x•		1x•			
POWER MAX BOX 200-2 P		2x•		1x•			
POWER MAX BOX 260-2 P		2x•		1x•			
POWER MAX BOX 300-2 P			2x•			1x•	
POWER MAX BOX 330-3 P		3x•					
POWER MAX BOX 390-3 P		3x•					
POWER MAX BOX 450-3 P			3x•				1x•
POWER MAX BOX 520-4 P		4x•					
POWER MAX BOX 600-4 P			4x•				1x•
POWER MAX BOX 750			5x•			1x•	1x•
POWER MAX BOX 900			6x•			1x•	1x•
POWER MAX BOX 1050			7x•				2x•
POWER MAX BOX 1200			8x•				2x•
POWER MAX BOX 1350			9x•			1x•	2x•
POWER MAX BOX 1500			10x•			1x•	2x•

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3. Hydraulic interception of thermal modules

CODE	DESCRIPTION
20145170	Hydraulic shut-off kit for single unit with 3-way valve with discharge to atmosphere [1]

[1] To be ordered in the same number as the number of units in the system

4. Manifolds, safety kits and hydraulic accessories

CODE	DESCRIPTION
20157593	Junction kit for cascade (Fume Ø300 - Air Ø300 - Condensation Ø50)
20145237	SJunction kit for cascade with spacer (150 mm) [1]
20071190	Safety kit [2]
20023104	Safety valve up to 460 kW (5.4 bar ØG.¾" F)
20023106	Safety valve up to 580 kW (5.4 bar ØG.1" F)
20009486	Fuel shut-off valve kit (VIC) - ØG.1" [3][4]
20009482	Fuel shut-off valve kit (VIC) - ØG.1" ½ [4][5]
20009483	Fuel shut-off valve kit (VIC) - ØG.2" [4][6]
20061640	Fuel shut-off valve kit (VIC) - ØG.3" [4][7]
20145184	Flanged 3"/2" reduction kit (DN80/DN50)
20094187	Flange kit 2" DN50 PN6 - Gas 2" F
20161191	Flange kit 3" DN80 PN6 - 3" DN80 PN16
20146852	Flanged DN80 to threaded ØG.2" adapter kit for fuel shut-off valve
20145183	Flanged reduction kit DN125/DN80
20147990	2"- 1" ½ gas adapter for VIC valve
20147994	2"- 1" gas adapter for VIC valve
20070903	3" closing plugs kit [8]
20070907	5" closing plugs kit [8]
20082190	Flange kit 3"
20082191	Flange kit 5"
20167872	Extension kit 3" [9][11]
20167873	Extension kit 5" [10][11]
20145172	Hydraulic flow manifold 3"
20145177	Hydraulic flow manifold 5"
20145181	Hydraulic return manifold 3"
20145182	Hydraulic return manifold 5"

[1] Includes connections H2O 5" - Gas 3" - Flue gas Ø300 - Condensate Ø50.

[2] Does not include safety valve and fuel shut-off valve.

[3] Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.

[4] Tripping temperature at 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 1310 kW, calculated considering gas supply pressure = 20 mbar.

[8] Kit to close the unused side.

[9] 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] Specific sleeves are provided on the delivery tube for housing devices

Note: for calculation of maximum permissible output of VICs with supply pressure other than 20 mbar, please contact the pre-sales service.

5. Hydraulic separators/plate heat exchangers

CODE	DESCRIPTION
20145255	Hydraulic separator, 3" connections (up to 485 kW)
20145260	Hydraulic separator, 5" connections (up to 1310 kW)
20145252	LH technical cabinet with hydraulic separator (up to 485 kW) [1]
20145254	LH technical cabinet with hydraulic separator (up to 1310 kW) [D][1]
20145247	RH technical cabinet with hydraulic separator (up to 485 kW) [1]
20145250	RH technical cabinet with hydraulic separator (up to 1310 kW) [D][1]
20146827	Connection kit for plate exchanger DN80/DN50
20146828	Connection kit for plate exchanger DN125/DN65
20146829	Connection kit for plate exchanger DN125/DN100
20146833	LH technical cabinet for plate exchanger (up to 485 kW)
20146835	LH technical cabinet for plate exchanger (up to 800 kW) [D]
20146836	LH technical cabinet for plate exchanger (up to 1310 kW) [D]
20146830	RH technical cabinet for plate exchanger (up to 485 kW)
20146831	RH technical cabinet for plate exchanger (up to 800 kW) [D]
20146832	RH technical cabinet for plate exchanger (up to 1310 kW) [D]
20158562	RH/LH technical cabinet for housing 3" extension kit (270/485 kW) [D]
20158564	RH/LH technical cabinet for housing 5" extension kit (580/1310 kW) [D]

[D] Availability of the material at our warehouse: 25 working days from the order validation date.
[1] They contain the hydraulic separator.

Selection table for closing caps, weld-in flanges and hydraulic reductions

Model	Flanged 5"/3" reduction kit (DN125/DN80)	Closing 3" cap kit	Closing 5" cap kit	Weld-in 3" flange kit	Weld-in 5" flange kit
	20145183	20070903	20070907	20082190	20082191
POWER MAX BOX 130-2 P		1x●		2x●	
POWER MAX BOX 160-2 P		1x●		2x●	
POWER MAX BOX 200-2 P		1x●		2x●	
POWER MAX BOX 260-2 P		1x●		2x●	
POWER MAX BOX 300-2 P	2x●(*)		1x●	2x●	
POWER MAX BOX 330-3 P		1x●		2x●	
POWER MAX BOX 390-3 P		1x●		2x●	
POWER MAX BOX 450-3 P	2x●(*)		1x●	2x●	
POWER MAX BOX 520-4 P		1x●		2x●	
POWER MAX BOX 600-4 P			1x●		2x●
POWER MAX BOX 750			1x●		2x●
POWER MAX BOX 900			1x●		2x●
POWER MAX BOX 1050			1x●		2x●
POWER MAX BOX 1200			1x●		2x●
POWER MAX BOX 1350			1x●		2x●
POWER MAX BOX 1500			1x●		2x●

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Selection table for safety devices

Model	Safety devices — MANDATORY ACCESSORIES safety device kit — 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 - ØG.1" — 20009486	Fuel shut-off valve - ØG.1"½ — 20009482	Fuel shut-off valve - ØG.2" — 20009483	Fuel shut-off valve - ØG.3" — 20061640	Without technical cabinet: Fanged 3"/2" reduction kit (DN80/DN50) — 20145184	Without technical cabinet: DN50PN6 2" - 2 "G.F flange kit — 20094187	Without technical cabinet: Flange kit 3" DN80 PN6 - 3" - DN80 PN16 — 20161191	With separator/exchanger technical cabinet: Flanged 3"/2" reduction kit (DN80/DN50) — 20145184	With separator/exchanger technical cabinet: Flanged DN80/threaded ØG.2" adapter kit for fuel shut-off valve — 20146852
POWER MAX BOX 130-2 P	1x●	1x●		1x●					1x●			
POWER MAX BOX 160-2 P	1x●	1x●			1x●				1x●			
POWER MAX BOX 200-2 P	1x●	1x●			1x●				1x●			
POWER MAX BOX 260-2 P	1x●	1x●			1x●				1x●			
POWER MAX BOX 300-2 P	1x●	1x●				1x●		1x●	1x●		1x●	
POWER MAX BOX 330-3 P	1x●	1x●				1x●			1x●			
POWER MAX BOX 390-3 P	1x●	1x●				1x●			1x●			
POWER MAX BOX 450-3 P	1x●	1x●				1x●		1x●	1x●		1x●	
POWER MAX BOX 520-4 P	1x●	1x●				1x●			1x●			
POWER MAX BOX 600-4 P	1x●		1x●			1x●		1x●	1x●			1x●
POWER MAX BOX 750	1x●	2x●					1x●			1x●	1x●	
POWER MAX BOX 900	1x●	2x●					1x●			1x●	1x●	
POWER MAX BOX 1050	1x●	2x●					1x●			1x●	1x●	
POWER MAX BOX 1200	1x●	3x●					1x●			1x●	1x●	
POWER MAX BOX 1350	1x●	3x●					1x●			1x●	1x●	
POWER MAX BOX 1500	1x●	3x●					1x●			1x●	1x●	

Extension kit selection table

Model	WITH/WITHOUT TECHNICAL CABINET: 3" straight extension kit with pockets — 20167872	WITH/WITHOUT TECHNICAL CABINET: 5" straight extension kit with pockets — 20167873	WITH TECHNICAL CABINET: RH/LH technical cabinet for housing 3" extension kit — 20158562	WITH TECHNICAL CABINET: RH/LH technical cabinet for housing 5" extension kit — 20158564	WITH TECHNICAL CABINET: Gas adapter 2" - 1" and 1/2 for fuel shut-off valve — 20147990	WITH TECHNICAL CABINET: Gas adapter 2" - 1" for fuel shut-off valve — 20147994
POWER MAX BOX 114-2	●		●		●	
POWER MAX BOX 140-2	●		●			●
POWER MAX BOX 180-2	●		●			●
POWER MAX BOX 230-2	●		●			●
POWER MAX BOX 270-2	●		●			
POWER MAX BOX 300-3	●		●			
POWER MAX BOX 345-3	●		●			
POWER MAX BOX 405-3	●		●			
POWER MAX BOX 460-4	●		●			
POWER MAX BOX 540-4		●		●		
POWER MAX BOX 675		●		●		
POWER MAX BOX 810		●		●		
POWER MAX BOX 945		●		●		
POWER MAX BOX 1080		●		●		
POWER MAX BOX 1215		●		●		
POWER MAX BOX 1350		●		●		
POWER MAX BOX 1500		●		●		

POWER MAX BOX

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Technical cabinet selection table for extension housing

Model	RH/LH technical cabinet for housing 3" extension kit 20158562	RH/LH technical cabinet for housing 5" extension kit 20158564
POWER MAX BOX 130-2 P	●	
POWER MAX BOX 160-2 P	●	
POWER MAX BOX 200-2 P	●	
POWER MAX BOX 260-2 P	●	
POWER MAX BOX 300-2 P	●	
POWER MAX BOX 330-3 P	●	
POWER MAX BOX 390-3 P	●	
POWER MAX BOX 450-3 P	●	
POWER MAX BOX 520-4 P	●	
POWER MAX BOX 600-4 P		●
POWER MAX BOX 750		●
POWER MAX BOX 900		●
POWER MAX BOX 1050		●
POWER MAX BOX 1200		●
POWER MAX BOX 1350		●
POWER MAX BOX 1500		●

Hydraulic separator and hydraulic accessories selection table

	Without technical cabinet							With technical cabinet			
	Left/right side installation							Installation left side		Installation right side	
Model	3" connections up to 485 kW	5" connections up to 1310 kW	3" delivery stub pipe kit	5" delivery stub pipe kit	3" return stub pipe kit	5" return stub pipe kit	B2B cascade hydraulic connection kit	LH technical cabinet for hydraulic separator up to 485 kW	LH technical cabinet for hydraulic separator up to 1310 kW	RH technical cabinet for hydraulic separator up to 485 kW	RH technical cabinet for hydraulic separator up to 1310 kW
	20145255	20145260	20145172	20145177	20145181	20145182	20162865	20145252	20145254	20145247	20145250
POWER MAX BOX 130-2 P	●		●		●			●		●	
POWER MAX BOX 160-2 P	●		●		●			●		●	
POWER MAX BOX 200-2 P	●		●		●			●		●	
POWER MAX BOX 260-2 P	●		●		●			●		●	
POWER MAX BOX 300-2 P	●		●		●			●		●	
POWER MAX BOX 330-3 P	●		●		●			●		●	
POWER MAX BOX 390-3 P	●		●		●			●		●	
POWER MAX BOX 450-3 P	●		●		●			●		●	
POWER MAX BOX 520-4 P	●		●		●			●		●	
POWER MAX BOX 600-4 P		●		●		●			●		●
POWER MAX BOX 750		●		●		●			●		●
POWER MAX BOX 900		●		●		●			●		●
POWER MAX BOX 1050		●		●		●			●		●
POWER MAX BOX 1200		●		●		●			●		●
POWER MAX BOX 1350		●		●		●			●		●
POWER MAX BOX 1500		●		●		●			●		●

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Combinations of plate exchanger for boiler operation with nominal or maximum flow rate (ΔT = 10°C average between primary and secondary)

ITEM	Plate exchanger ΔTml = 10°C														
80° → 70° / 60° ← 50°	SP 35 - DN50 25 (25A) N	SP 35 - DN50 31 (31A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 45 (45A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 57 (57A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 40 - DN65 59 (59A) N	SP 40 - DN65 75 (75A) N	SP 40 - DN65 93 (93A) N	SP 60 - DN100 51 (51A) N	SP 60 - DN100 59 (59A) N	SP 60 - DN100 65 (65A) N	SP 60 - DN100 73 (73A) N
	20140410	20140411	20140413	20140414	20140415	20140416	20140418	20140419	20014231	20140426	20140427	20140435	20140437	20140438	20140439
POWER MAX BOX 130-2 P	●														
POWER MAX BOX 160-2 P	●														
POWER MAX BOX 200-2 P		●													
POWER MAX BOX 260-2 P			●												
POWER MAX BOX 300-2 P				●											
POWER MAX BOX 330-3 P					●										
POWER MAX BOX 390-3 P						●									
POWER MAX BOX 450-3 P							●								
POWER MAX BOX 520-4 P								●							
POWER MAX BOX 600-4 P									●						
POWER MAX BOX 750										●					
POWER MAX BOX 900											●				
POWER MAX BOX 1050												●			
POWER MAX BOX 1200													●		
POWER MAX BOX 1350														●	
POWER MAX BOX 1500															●

Combinations of plate exchanger for boiler operation with nominal or maximum flow rate (ΔT = 7.2°C average between primary and secondary)

ITEM	Plate exchanger ΔTml = 7.2°C														
85° → 75° / 65° ← 60°	SP 35 - DN50 35 (35A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 35 - DN50 81 (81A) N	SP 35 - DN50 93 (93A) N	SP 35 - DN50 105 (105A) N	SP 35 - DN50 121 (121A) N	SP 40 - DN65 99 (99A) N	SP 40 - DN65 121 (121A) N	SP 40 - DN65 145 (145A) N	SP 60 - DN100 73 (73A) N	SP 60 - DN100 85 (85A) N	SP 60 - DN100 97 (97A) N
	20140412	20140413	20140415	20140418	20140419	20140420	20140421	20140423	20140424	20140428	20140432	20140433	20140439	20140440	20083249
POWER MAX BOX 130-2 P	●														
POWER MAX BOX 160-2 P		●													
POWER MAX BOX 200-2 P			●												
POWER MAX BOX 260-2 P				●											
POWER MAX BOX 300-2 P					●										
POWER MAX BOX 330-3 P						●									
POWER MAX BOX 390-3 P							●								
POWER MAX BOX 450-3 P								●							
POWER MAX BOX 520-4 P									●						
POWER MAX BOX 600-4 P										●					
POWER MAX BOX 750											●				
POWER MAX BOX 900												●			
POWER MAX BOX 1050													●		
POWER MAX BOX 1200														●	
POWER MAX BOX 1350															●
POWER MAX BOX 1500															●

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Hydraulic accessories selection table for plate exchanger installation

Model	Without technical cabinet			With technical cabinet					
				Left side installation			Right side installation		
	Connection kit for plate exchanger DN80 (Ø3") /DN50	Connection kit for plate exchanger DN125 (Ø5")/DN65	Connection kit for plate exchanger DN125 (Ø5")/DN100	LH technical cabinet for plate exchanger up to 485 kW	LH technical cabinet for plate exchanger up to 800 kW	LH technical cabinet for plate exchanger up to 1310 kW	"RH technical cabinet for plate exchanger up to 485 kW"	RH technical cabinet for plate exchanger up to 800 kW	RH technical cabinet for plate exchanger up to 1310 kW
	20146827	20146828	20146829	20146833	20146835	20146836	20146830	20146831	20146832
POWER MAX BOX 130-2 P	●			●			●		
POWER MAX BOX 160-2 P	●			●			●		
POWER MAX BOX 200-2 P	●			●			●		
POWER MAX BOX 260-2 P	●			●			●		
POWER MAX BOX 300-2 P	●			●			●		
POWER MAX BOX 330-3 P	●			●			●		
POWER MAX BOX 390-3 P	●			●			●		
POWER MAX BOX 450-3 P	●			●			●		
POWER MAX BOX 520-4 P	●			●			●		
POWER MAX BOX 600-4 P		●			●			●	
POWER MAX BOX 750		●			●			●	
POWER MAX BOX 900		●			●			●	
POWER MAX BOX 1050			●			●			●
POWER MAX BOX 1200			●			●			●
POWER MAX BOX 1350			●			●			●
POWER MAX BOX 1500			●			●			●

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6. Auxiliary accessories for technical box

CODE	DESCRIPTION
20147030	Technical cabinet air/flue gas collector L = 900 mm Ø160 mm [1]
20147028	Technical cabinet air/flue gas collector L = 900 mm Ø300 mm [1]
20157595	Technical cabinet air/flue gas collector L = 1800 mm Ø160 mm [1]
20157598	Technical cabinet air/flue gas collector L = 1800 mm Ø300 mm [1]
20157599	Technical cabinet flue gas "S" collector L = 1800 mm Ø300 mm (SP60-DN100) [1]
20146844	Top lifting kit
20146845	Moving wheel kit [2]
20146846	Internal light kit for emergency and service

[1] To be used as indicated in the tables below.

[2] To be used during installation.

Open chamber boiler configuration

Selection table	Flue gas exhaust side	Technical cabinet side
Table A	RH	RH
	LH	LH
Collectors not required	LH	RH
	RH	LH

Watertight chamber boiler configuration

Selection table	Flue gas exhaust side	Air intake side	Technical cabinet side
Table A	RH	RH	RH
	LH	LH	LH
Table B	LH	RH	RH
	LH	RH	LH
	RH	LH	RH
	RH	LH	LH
Collectors not required	LH	LH	RH
	RH	RH	LH

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Table A

Air/flue gas collector code and number	Technical cabinet for housing of extensions or empty technical cabinet				Technical cabinet for hydraulic separator				Technical cabinet for heat exchanger					
Type of chamber	Open chamber		Water-tight chamber		Open chamber		Water-tight chamber		Open chamber			Water-tight chamber		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
POWER MAX BOX 130-2 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 160-2 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 200-2 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 260-2 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 300-2 P (*)	1x•				1x•				1x•					
POWER MAX BOX 330-3 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 390-3 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 450-3 P (*)	1x•				1x•				1x•					
POWER MAX BOX 520-4 P	1x•		2x•		1x•		2x•		1x•			2x•		
POWER MAX BOX 600-4 P		1x•		2x•		1x•		2x•		1x•			2x•	
POWER MAX BOX 750		1x•		2x•		1x•		2x•		1x•			2x•	
POWER MAX BOX 900		1x•		2x•		1x•		2x•		1x•			2x•	
POWER MAX BOX 1050		1x•		2x•		1x•		2x•			1x•			(**)
POWER MAX BOX 1200		1x•		2x•		1x•		2x•			1x•			(**)
POWER MAX BOX 1350		1x•		2x•		1x•		2x•			1x•			(**)
POWER MAX BOX 1500		1x•		2x•		1x•		2x•			1x•			(**)

NOTE: to be used only if the outlet on flue gas side is the same as the outlet on the hydraulic side

(*) Flue gas exhaust/air intake on technical cabinet side not available in case of watertight installation, air intake on the boiler side mandatory.

(**) In case of technical cabinet with heat exchanger and watertight installation, the air intake must be on the machine side and not on the technical cabinet side. In this case, also for the pump technical cabinet, if present, it is necessary to use only one code 20147028.

Table B

Air/flue gas collector code and number	Technical cabinet for housing of extensions or empty technical cabinet				Technical cabinet for hydraulic separator				Technical cabinet for heat exchanger					
Type of chamber	Open chamber		Water-tight chamber		Open chamber		Water-tight chamber		Open chamber			Water-tight chamber		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
POWER MAX BOX 130-2 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 160-2 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 200-2 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 260-2 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 300-2 P (*)	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 330-3 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 390-3 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 450-3 P (*)	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 520-4 P	1x•		1x•		1x•		1x•		1x•			1x•		
POWER MAX BOX 600-4 P		1x•		1x•		1x•		1x•		1x•			1x•	
POWER MAX BOX 750		1x•		1x•		1x•		1x•		1x•			1x•	
POWER MAX BOX 900		1x•		1x•		1x•		1x•		1x•			1x•	
POWER MAX BOX 1050		1x•		1x•		1x•		1x•			1x•			1x•
POWER MAX BOX 1200		1x•		1x•		1x•		1x•			1x•			1x•
POWER MAX BOX 1350		1x•		1x•		1x•		1x•			1x•			1x•
POWER MAX BOX 1500		1x•		1x•		1x•		1x•			1x•			1x•

7. Auxiliary accessories for outdoor installation

CODE	DESCRIPTION
20146841	Roof kit for cabinet outdoor installation L = 900 mm
20146842	Roof kit for cabinet outdoor installation L = 1800 mm
20146953	Outdoor insulation kit for 3" blind flanges
20146954	Outdoor insulation kit for 5" blind flanges

NOTE: to be used only in case of outdoor installation.

Roof selection table for outdoor installation

Model	Configuration with technical cabinet for hydraulic separator or empty technical cabinet				Configuration with technical cabinet for plate exchanger			
	20146841	20146842	20146953	20146954	20146841	20146842	20146953	20146954
POWER MAX BOX 130-2 P	2x●		1x●		1x●	1x●	1x●	
POWER MAX BOX 160-2 P	2x●		1x●		1x●	1x●	1x●	
POWER MAX BOX 200-2 P	2x●		1x●		1x●	1x●	1x●	
POWER MAX BOX 260-2 P	2x●		1x●		1x●	1x●	1x●	
POWER MAX BOX 300-2 P (*)	2x●			1x●	1x●	1x●		1x●
POWER MAX BOX 330-3 P	1x●	1x●	1x●			2x●	1x●	
POWER MAX BOX 390-3 P	1x●	1x●	1x●			2x●	1x●	
POWER MAX BOX 450-3 P (*)	1x●	1x●		1x●		2x●		1x●
POWER MAX BOX 520-4 P	1x●	1x●	1x●			2x●	1x●	
POWER MAX BOX 600-4 P	1x●	1x●		1x●		2x●		1x●
POWER MAX BOX 750	2x●	1x●		1x●	1x●	2x●		1x●
POWER MAX BOX 900	2x●	1x●		1x●	1x●	2x●		1x●
POWER MAX BOX 1050	1x●	2x●		1x●		3x●		1x●
POWER MAX BOX 1200	1x●	2x●		1x●		3x●		1x●
POWER MAX BOX 1350	2x●	2x●		1x●	1x●	3x●		1x●
POWER MAX BOX 1500	2x●	2x●		1x●	1x●	3x●		1x●

HYBRID SYSTEMS

HEAT PUMPS

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FLOOR STANDING BOILERS

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SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

8. Secondary circuit management accessories

CODE	DESCRIPTION
1220599	Secondary circuit/heater probe
20130811	Electronic kit for management of direct or additional mixed zone (max 16) [1]
20132778	External probe

[1] Used for secondary circuit and heater management.
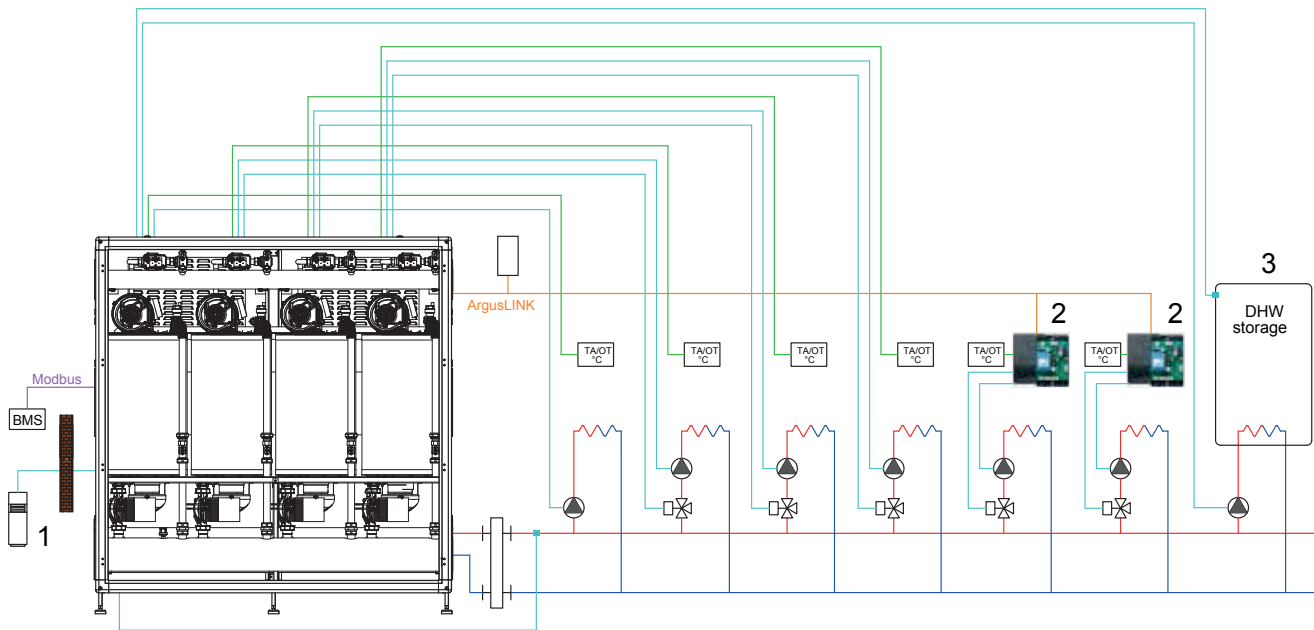
1. External probe
2. Electronic kit for management of direct or additional mixed zone
3. Heater probe

9. Treatment systems for condensate neutralization
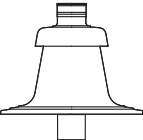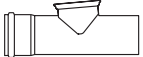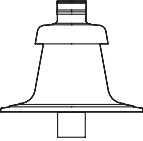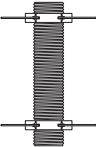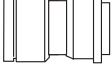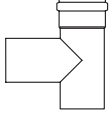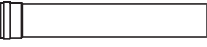
CODE	DESCRIPTION
4031810	Neutralization kit N2 up to 450 kW
4031812	Neutralization kit N3 from 450 to 1500 kW [D]
4031811	Neutralization kit HN2 up to 270 kW [1]
4031813	Neutralization kit HN3 from 270 to 750 kW [D] [1]

[D] Delivery time of the material if not available in stock: up to 30 working days from order validation date
[1] Equipped with extraction pumps

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

CODE		DESCRIPTION	MATERIAL (*)	POWER X	POWER MAX 50 P DEP-80 P
20131271		Flue cover Ø80 for rigid/flexible system	PP (1)	■	■
20132504		T-junction kit Ø80 mm with support bracket	PP (1)	■	■
20132505		Pipe spacers in the flue gases pipe	PP (1)	■	■
20132506		Straight inspection manifold Ø80 mm	PP (1)	■	■
20132508		Flue cover Ø80 mm	PP (1)	■	■
20132509		Flexible extension 12.5 m with 8 spacers Ø80 mm	PP (1)	■	■
20132510		Rigid-flexible fitting Ø80 mm	PP (1)	■	■
20132511		Flexible-flexible fitting Ø80 mm	PP (1)	■	■
20132512		Flexible-rigid-fitting Ø80 mm	PP (1)	■	■
20132513		Ø80 mm T-junction kit	PP (1)	■	■
20132518		Drain pipe kit	PP (1)	■	■
20137503		45° bend Ø80 mm	PP (1)	■	■
20137506		90° bend Ø80 mm	PP (1)	■	■
20137508		Extension Ø80 mm, L=500	PP (1)	■	■

Flue option systems
FOR CHIMNEYS CONDENSING

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

CODE		DESCRIPTION	MATERIAL (*)	POWER X	POWER MAX 50 P DEP-80 P
20137509		**Extension Ø80 mm L=1000**	PP (1)	■	■
20137511		**Extension Ø80 mm L=2000**	PP (1)	■	■
20137515		**Air suction terminal Ø80 mm**	PP (1)	■	■
20137517		**Horizontal terminal Ø80 mm**	PP (1)	■	■
20132514		**Ø80 mm T-junction closure kit for condensate drain**	MET (1)	■	■
20137538		**Air inlet kit for installation type B23**	MET	■	
20145888		**Flue support shelf kit**	MET	■	■

(*) PP material: colour may change over time because of sun's rays exposure.
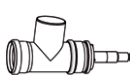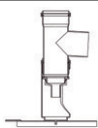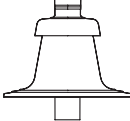(1) H1 pressure level according to EN 1443.

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 lenght.

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

CODE		DESCRIPTION	MATERIAL (*)	POWER X	POWER MAX 50 P DEP-80 P
20137535		**Double adaptor Ø80/80 mm - concentric Ø60/100 mm**	PP/MET [1][2]	■	■
20132018		**Wall collector Ø60/100 mm**	PP/PPu [1][2]	■	■

(*) PP material: 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 lenght.

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

CODE		DESCRIPTION	MATERIAL (*)	POWER X	POWER MAX 50 P DEP-80 P
20131054		**45° bend Ø80/125 mm**	PP/ABS [1]	■	■
20131055		**Double adaptor Ø80/80 mm - concentric Ø80/125 mm**	PP/ABS [1]	■	■
20131083		**90° bend Ø80/125 mm**	PP/ABS [1]	■	■
20131084		**Extension Ø80/125 mm, L=500 mm**	PP/ABS [1]	■	■
20131085		**Extension Ø80/125 mm, L=1000 mm**	PP/ABS [1]	■	■
20131095		**90° bend with inspection Ø80/125 mm**	PP/ABS [1]	■	■
20131098		**Wall discharge terminal Ø80/125 mm**	PP/ABS [1]	■	■
20131113		**Vertical terminal Ø80/125 mm**	PP/ABS	■	■
20132050		**Universal tile for sloping roofs**	Nylon	■	■
20132520		**Element kit Ø80/125 mm connection to flue**	PP [1]	■	■

(*) 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 lenght.

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.

HYBRID SYSTEMS

HEAT PUMPS

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FLOOR STANDING BOILERS

WATER-HEATERS

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CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø110 mm

CODE		DESCRIPTION	MATERIAL (*)	POWER MAX 100 - 150
20131202		90° bend Ø110 mm with inspection	PP (1)	■
20131205		45° bend Ø110 mm	PP (1)	■
20131208		90° bend Ø110 mm	PP (1)	■
20131210		Extension Ø110 mm, L=1000 mm	PP (1)	■
20131218		Ø110 T-junction kit with condensate drain	PP (1)	■
20131221		Ø110 mm T-junction kit with stack support condensate drain	PP (1)	■
20131222		Ø110 mm T-junction kit	PP (1)	■
20131225		Flue cover Ø110 mm with terminal	PP (1)	■

(*) 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 lenght.

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.

Ø110/160 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM

CODE		DESCRIPTION	MATERIAL (*)	POWER MAX 100 - 150
20131036		**45° bend Ø110/160 mm**	PP/MET (1)	■
20131040		**90° bend Ø110/160 mm**	PP/MET (1)	■
20131046		**Extension Ø110/160 mm, L=500 mm**	PP/MET (1)	■
20131050		**Extension Ø110/160 mm, L=1000 mm**	PP/MET (1)	■
20131059		**Double adaptor Ø110/110 mm - concentric Ø110/160 mm**	PP/MET (1)	■
20131145		**Tile Ø160 mm 25-45% slope**	-	■
20131147		**90° bend with inspection Ø110/160 mm**	PP/MET (1)	■
20131149		**Ø110/160 concentric horizontal flue terminal**	PP/MET (1)	■
20147403		**Outlet on roof Ø110/160 mm**	PP/MET (1)	■

(*) PP material: colour may change over time because of sun's rays exposure.
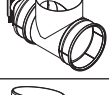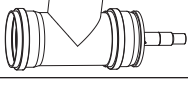(1) H1 pressure level according to EN 1443.

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 lenght.

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.
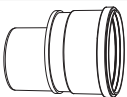
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

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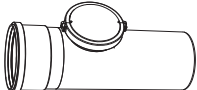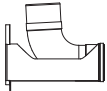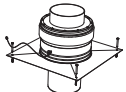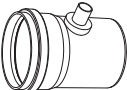
PLASTIC FLUE GAS EXHAUST SYSTEM Ø160 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062445		**30° bend ø160 mm**	PP
20032646		**45° bend ø160 mm**	PP
20032644		**90° bend ø160 mm**	PP
20062446		**Bend with inspection ø160 mm**	PP
20060940		**Extension ø160 mm, L=500 mm**	PP
20060941		**Extension ø160 mm, L=1000 mm**	PP
20060942		**Extension ø160 mm, L=2000 mm**	PP
20060945		**Stub pipe with inspection ø160 mm**	PP
20062703		**Chimney support ø160 mm**	PP
20060953		**Chimney cover ø160 mm**	PP
20062447		**Condensate drain tube ø160 mm**	PP
20063419		**Inspectable T-shaped chimney support with condensate drain ø160 mm**	PP
20062448		**T-shaped connection with condensate drain ø160 mm**	PP
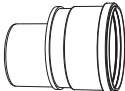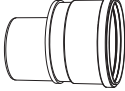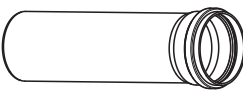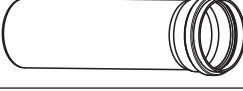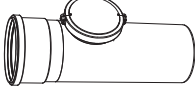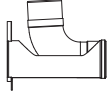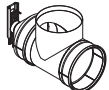
PLASTIC FLUE GAS EXHAUST SYSTEM Ø200 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062567		Concentric adapter ø200-160 mm	PP
20062539		30° bend ø200 mm	PP
20062542		45° bend ø200 mm	PP
20062543		90° bend ø200 mm	PP
20062545		Bend with inspection ø200 mm	PP
20062527		Extension ø200 mm, L=500 mm	PP
20062530		Extension ø200 mm, L=1000 mm	PP
20062532		Extension ø200 mm, L=2000 mm	PP
20062534		Extension with inspection ø200 mm	PP
20062548		Chimney support ø200 mm	PP
20062547		Chimney cover ø200 mm	PP
20062537		Condensate drain tube ø200 mm	PP
20063420		Inspectable T-shaped chimney support with condensate drain ø200 mm	PP
20062550		T-shaped connection with condensate drain ø200 mm	PP

HYBRID SYSTEMS

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TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
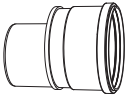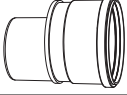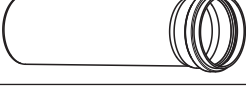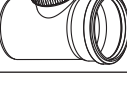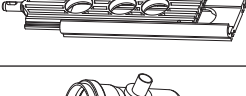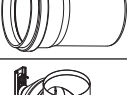
PLASTIC FLUE GAS EXHAUST SYSTEM Ø250 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062606		**Eccentric adapter ø250-160 mm**	PP
20062607		**Concentric adapter ø250-200 mm**	PP
20132393		**Adapter ø200/ø250 mm**	PP
20062593		**30° bend ø250 mm**	PP
20062594		**45° bend ø250 mm**	PP
20062595		**90° bend ø250 mm**	PP
20062598		**Bend with inspection ø250 mm**	PP
20062576		**Extension ø250 mm, L=500mm**	PP
20062577		**Extension ø250 mm, L=1000mm**	PP
20062578		**Extension ø250 mm, L=2000mm**	PP
20062591		**Extension with inspection ø250 mm**	PP
20062600		**Chimney support ø250 mm**	PP
20062599		**Chimney cover ø250 mm**	PP
20062592		**Condensate drain tube ø250 mm**	PP
20063421		**Inspectable T-shaped chimney support with condensate drain ø250 mm**	PP
20062601		**T-shaped connection with condensate drain ø250 mm**	PP
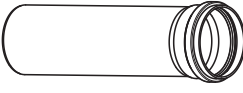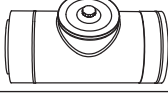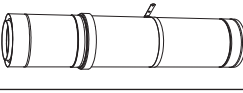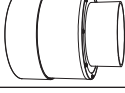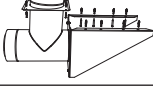
PLASTIC FLUE GAS EXHAUST SYSTEM Ø300 mm FOR CONDENSING BOILERS

CODE	DESCRIPTION	MATERIAL
20158581	Eccentric adapter ø300-160 mm	PP
20158580	Eccentric adapter ø300-250 mm	PP
20145293	45° bend ø300 mm	PP
20145294	90° bend ø300 mm	PP
20158567	Bend with inspection ø300 mm	PP
20145292	Extension ø300 mm, L=500 mm	PP
20145295	Extension ø300 mm, L=1000 mm	PP
20145296	Extension ø300 mm, L=2000 mm	PP
20145290	Stub pipe with inspection ø300 mm	PP
20158569	Chimney support ø300 mm	PP
20158566	Condensate drain tube ø300 mm	PP
20158572	Inspectable T-shaped chimney support with condensate drain ø300 mm	PP
20158571	T-shaped connection with condensate drain ø300 mm	PP
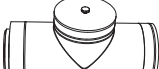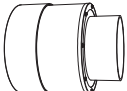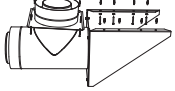
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

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DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062658		**30° bend ø160-225 mm**	PP/Met
20062659		**45° bend ø160-225 mm**	PP/Met
20062660		**90° bend ø160-225 mm**	PP/Met
20062655		**Extension ø160-225 mm, L=500 mm**	PP/Met
20062656		**Extension ø160-225 mm, L=1000 mm**	PP/Met
20062657		**Extension with inspection ø160-225 mm, L=1000 mm**	PP/Met
20062662		**Tube for terminal ø160-225 mm**	PP/Met
20062663		**Terminal ø160-225 mm**	PP/Met
20062661		**Chimney support ø160-225 mm**	PP/Met
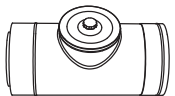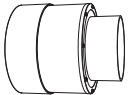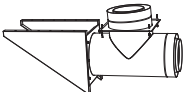
DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø200-300 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062669		**45° bend ø200-300 mm**	PP/Met
20062670		**45° bend ø200-300 mm**	PP/Met
20062671		**90° bend ø200-300 mm**	PP/Met
20062666		**Extension ø200-300 mm, L=500 mm**	PP/Met
20062667		**Extension ø200-300 mm, L=1000 mm**	PP/Met
20062668		**Extension with inspection ø200-300 mm**	PP/Met
20062673		**Tube for terminal ø200-300 mm**	PP/Met
20062674		**Terminal ø200-300 mm**	PP/Met
20062672		**Chimney support ø200-300 mm**	PP/Met
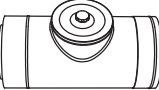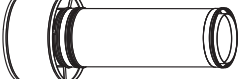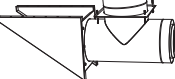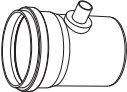
HYBRID SYSTEMS

HEAT PUMPS

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FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

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SYSTEM COMPLEMENTARY ITEMS

DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20062689		**45° bend ø250-350 mm**	PP/Met
20062676		**Extension ø250-350 mm, L=500 mm**	PP/Met
20062677		**Extension ø160-225 mm, L=1000 mm**	PP/Met
20062688		**Extension with inspection ø250-350 mm**	PP/Met
20062691		**Tube for terminal ø250-350 mm**	PP/Met
20062692		**Terminal ø250-350 mm**	PP/Met
20062690		**Chimney support ø250-350 mm**	PP/Met

DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø300-350 mm FOR CONDENSING BOILERS

CODE		DESCRIPTION	MATERIAL
20158598		Eccentric adapter ø300/400-250 mm	PP/Met
20158600		45° bend ø300-350 mm	PP/Met
20158601		Extension ø300-400 mm, L=500 mm	PP/Met
20158602		Extension ø300-400 mm, L=1000 mm	PP/Met
20158603		Extension with inspection ø300-400 mm	PP/Met
20158604		Tube for terminal ø300-400 mm	PP/Met
20158605		Terminal ø300-400 mm	PP/Met
20158606		Chimney support ø300-400 mm	PP/Met
20158607		Boiler start-up kit ø300/350 mm	PP/Met
20158594		Tube with condensate drain ø300-350 mm	PP/Met

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ACCESSORIES FOR FLUE GAS EXHAUST

CODE		DESCRIPTION
20062443		**Long John trap**
20062510		**Tool ø160 mm**
20062563		**Tool ø200 mm**
20062604		**Tool ø250 mm**
20158577		**Spacer ø300 mm**
20062444		**Spacer ø160 mm**
20060948		**Spacer ø160 mm (5 pcs.)**
20062564		**Spacer ø200 mm**
20062664		**Spacer ø225 mm**
20062605		**Spacer ø250 mm**
20062513		**Grille ø160 mm**
20062575		**Grille ø200 mm**
20062636		**Grille ø250 mm**
20158576		**Grille ø300 mm**
20062512		**Rosette ø160 mm**
20062574		**Rosette ø200 mm**

Flue option systems
FLUE OPTION FOR CONDENSING

CODE		DESCRIPTION
20062665		**Rosette ø225 mm**
20062635		**Rosette ø250 mm**
20062675		**Rosette ø300 mm**
20062693		**Rosette ø350 mm**
20062449		**Bulkhead connector ø160-225 mm**
20062556		**Bulkhead connector ø200 mm**
20062602		**Bulkhead connector ø250 mm**

Beretta

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SYSTEM COMPLEMENTARY ITEMS

- Wide range with four monosplit models, 2.6 - 3.6 - 5.0 - 7.0kW, and one dual split model, 5.0kW
- Energy class A++, A+
- Refrigerant gas R32
- Backlit display
- Remote control supplied as standard with large backlit display
- Front panel in glossy white ABS
- Four-speed indoor unit fan with "Sleep" function, "QUIET" (20 dBA)
- "SMART" mode with automatic heating/cooling switching
- AUTORESTART function in case of blackout
- Possibility of remote control with APP, via Smartphone and Tablet, with optional Wi-Fi kit

Air conditioners

CODE	MODEL	DIMENSIONS (A) H X L X D (mm)	HEAT.(1)/COOL.(2) OUTPUT (kW)	CLASS SCOP	SEER
20174579	BREVA 9000-1				
CONSISTING OF:					
20171580	BREVA IN 9000	280×820×195	2.9 / 2.6	A+	A++
20171581	BREVA EX 9000-1	540×780×245	-		
20174585	BREVA 12000-1				
CONSISTING OF:					
20171582	BREVA IN 12000	280×820×195	3.7 / 3.6	A+	A++
20171583	BREVA EX 12000-1	550×800×280	-		
20174588	BREVA 18000-1				
CONSISTING OF:					
20171584	BREVA IN 18000	318×1008×225	5.2 / 5.0	A+	A++
20171585	BREVA EX 18000-1	550×800×280	-		
20178548	BREVA 24000-1				
CONSISTING OF:					
20177623	BREVA IN 24000	335×1125×240	8.1 / 7.0	A+	A++
20177622	BREVA EX 24000-1	697×890×353	-		

(A) The width value the outdoor units does not include the connection overall dimensions: +76 mm for monosplit 9000 version; +60 mm for monosplit 12000 and 18000 versions; +96 mm for monosplit 24000 version.
The efficiency classes are declared in compliance with standard EN 14825, for temperate climate zone and in correspondence of Pdesign -10°C in heating mode and Pdesign 35°C in cooling mode.
Performance refers to the following conditions:
(1) indoor unit air inlet temperature 20°C T d.b., outdoor temperature 7°C d.b., 6°C w.b.
(2) indoor unit air inlet temperature 27°C Td.b., 19°C Tw.b., outdoor temperature 35°C d.b.
The possible combinations are the ones indicated in the table. Combinations other than those indicated are not permitted. It is not allowed to use units with item code not included in the list.

BREVA - WALL-HUNG MONO INVERTER AIR CONDITIONERS

Accessories

CODE	DESCRIPTION
20181240	Wi-Fi air conditioner interface

Technical data

Model	Heating mode yearly consumption kWh/year	Cooling mode yearly consumption kWh/year	Connections liquid mm	Connections gas mm	L/H max [1] m
BREVA 9000-1	819	147	6.35	9.52	15/10
BREVA 12000-1	1092	197	6.35	9.52	15/10
BREVA 18000-1	1610	287	6.35	12.7	25/15
BREVA 24000-1	1963	350	6.35	12.7	25/15

(1) Maximum length with factory charge 5 m for monosplit models 9000-1, 12000-1 and 18000-1. Maximum length with factory charge 7 m for monosplit model 24000-1. Additional charge 20 g/m.

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SYSTEM COMPLEMENTARY ITEMS

- 5.0 kW dual split model
- Energy class A++, A+
- Refrigerant gas R32
- Backlit display
- Remote control supplied as standard with large backlit display
- Front panel in glossy white ABS
- Four-speed indoor unit fan with "Sleep" function, "QUIET" (20 dBA)
- "SMART" mode with automatic heating/cooling switching
- AUTORESTART function in case of blackout
- Possibility of remote control with APP, via Smartphone and Tablet, with optional Wi-Fi kit

Air conditioners

CODE	MODEL	DIMENSIONS (A) H X L X D (mm)	HEAT.(1)/COOL.(2) OUTPUT (kW)	CLASS SCOP	SEER
20174592	BREVA 18000-2(9+9)				
CONSISTING OF:					
20171580	BREVA IN 9000	280×820×195	5.2 / 5.0	A⁺	A⁺⁺
20171580	BREVA IN 9000	280×820×195			
20171586	BREVA EX 18000-2	553×800×275	-		
20174595	BREVA 18000-2(9+12)				
CONSISTING OF:					
20171580	BREVA IN 9000	280×820×195	5.2 / 5.0	A⁺	A⁺⁺
20171582	BREVA IN 12000	280×820×195			
20171586	BREVA EX 18000-2	553×800×275	-		
20174599	BREVA 18000-2(12+12)				
CONSISTING OF:					
20171582	BREVA IN 12000	280×820×195	5.2 / 5.0	A⁺	A⁺⁺
20171582	BREVA IN 12000	280×820×195			
20171586	BREVA EX 18000-2	553×800×275	-		

(A) The width value the outdoor units does not include the connection overall dimensions: +60 mm for the 18000-2 dual split version.
The efficiency classes are declared in compliance with standard EN 14825, for temperate climate zone and in correspondence of Pdesign -10°C in heating mode and Pdesign 35°C in cooling mode.
Performance refers to the following conditions:
(1) indoor unit air inlet temperature 20°C T d.b., outdoor temperature 7°C d.b, 6°C w.b.
(2) indoor unit air inlet temperature 27°C Td.b., 19°C Tw.b., outdoor temperature 35°C d.b.
The possible combinations are the ones indicated in the table. Combinations other than those indicated are not permitted. It is not allowed to use units with item code not included in the list.

BREVA DUAL - WALL-HUNG MULTI INVERTER AIR CONDITIONERS

Accessories

CODE	DESCRIPTION
20181240	Wi-Fi air conditioner interface

Technical data

Model	Heating mode yearly consumption kWh/year	Cooling mode yearly consumption kWh/year	Connections liquid mm	Connections gas mm	L/H max [1] m
BREVA 18000-2	1645	269	2 x 6.35	2 x 9.52	30/15

(1) Maximum length with factory charge 20 m for dual split model 18000-2. Additional charge 20 g/m.
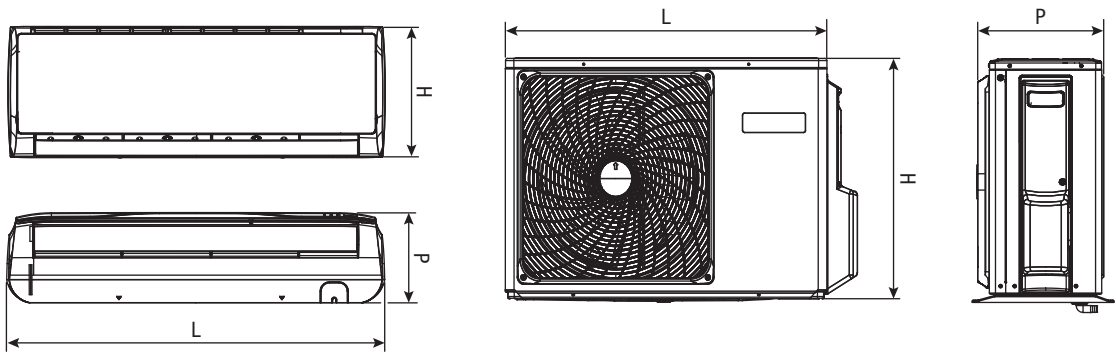
HYBRID SYSTEMS

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SYSTEM COMPLEMENTARY ITEMS

TIVANO WALL

Beretta

- **Wall-mounted fan coils for heating / cooling, dehumidification.**
- High efficiency DC-Inverter Technology range.
- Three sizes of capacity (heating from 2.78 kW to 5.72 kW; cooling from 1.07 kW to 2.31 kW).
- On-board touch LCD display , unit with temperature display and operation.
- Remote control supplied as standard.
- **Fan with DC-inverter Brushless motor.**
- Highly silent.
- 2/3-ways valve kits available as option to be installed inside the unit.
- 128 mm depth.
- Motorized wings for a correct air distribution.
- Hydraulic connections to the right.
- White color.

>> available as standard

Fan coils for heaing, cooling and dehumidification

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)	HEATING CAPACITY 70°C WATER INLET (kW)	HEATING CAPACITY 45°C WATER INLET (kW)	TOTAL COOLING* CAPACITY (kW)	MAXIMUM AIRFLOW (m³/h)
20186366	TIVANO WALL 27	335 x 902 x 128	2.78	1.27	1.07	228
20186367	TIVANO WALL 41	335 x 1102 x 128	4.12	1.80	1.65	331
20186368	TIVANO WALL 57	335 x 1302 x 128	5.72	2.60	2.31	440

* Coil inlet water temperature 7°C, coil outlet water temperature 12°C.

Accessories for TIVANO WALL

CODE	DESCRIPTION
20117090	2-ways manual valve kit
20099250	2-ways motorized valve kit

CODE	DESCRIPTION
20099251	3-ways diverter motorized valve kit

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CENTRALIZED HEATING

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SYSTEM COMPLEMENTARY ITEMS

Wall-mounted fan coils for heating, cooling and dehumidification

TIVANO WALL

Beretta

Technical data

DESCRIPTION and MODELS	U.O.M.	TIVANO WALL 27	TIVANO WALL 41	TIVANO WALL 57
PERFORMANCE				
Total cooling capacity [a]	kW	1.07	1.65	2.31
Sensible cooling capacity	kW	0.95	1.49	1.94
Water flow rate	l/h	196	279	402
Water losses	kPa	10.7	4.5	2.1
Heating capacity with 45°C inlet water [b]	kW	1.27	1.80	2.60
Water flow rate (45°C water inlet)	l/h	232	351	478
Water losses (45°C water inlet)	kPa	13.9	5.00	4.80
Heating capacity with 70°C water inlet [c]	kW	2.78	4.12	5.72
Water flow rate (70°C Δt 10)	l/h	239	354	492
Water losses (70°C Δt 10)	kPa	13	4.7	4.5
HYDRAULIC FEATURES				
Water coil content	litres	0.54	0.74	0.93
Maximum operating pressure	bar	10		
Hydraulic connections	inches	eurokonus 3/4"		
AERAULIC DATA				
Airflow at maximum ventilation speed	m³/h	228	331	440
Airflow at medium speed (AUTO mode)	m³/h	155	229	283
Airflow at minimum ventilation speed	m³/h	84	124	138
ELECTRICAL DATA				
Power supply	V/ph/Hz	230/1/50		
Maximum power consumption	W	12	14	18
Absorbed power at minimum speed	W	4.8	5.1	5.8
SOUND LEVEL				
Sound pressure at maximum airflow [d]	dB(A)	39.7	42.4	42.6
Sound pressure at medium airflow [d]	dB(A)	24.9	25.2	25.8
GENERAL DATA				
Max - Min temperature (Water inlet)	°C	80 - 4		
Weight	kg	14	16	19

(a) Coil inlet water temperature 7°C, coil outlet water temperature 12°C, air temperature 27°C d.b. and 19°C w.b.
(b) Coil inlet water temperature 45°C, water flow rate as in cooling, air temperature 20°C.
(c) Coil inlet water temperature 70°C, coil outlet water temperature 60°C, air temperature 20°C.
(d) Sound pressure measured in semi-anechoic chamber according to ISO 7779.

Technical drawings

BOTTOM WALL-MOUNTED INSTALLATION

20 mm   20 mm
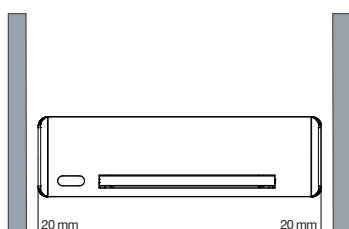
TOP WALL-MOUNTED INSTALLATION

120 mm
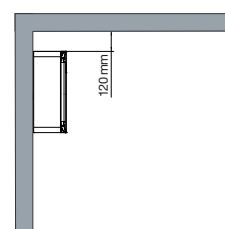
- **Fan coils and radiant fan coils for heating / cooling, dehumidification and air filtration.**
- High efficiency DC-Inverter Technology range.
- Five sizes of capacity (heating from 2.35 kW to 9.36 kW; cooling from 1.06 kW to 4.42 kW).
- Wall-mounted installation (vertical).
- Feet kit available as option for floor-standing installations.
- Highly silent.
- Tangential fan with DC-inverter Brushless motor.
- The fan speed is continuously modulated by the temperature controller.
- 150 mm depth.
- Wide range of complementary accessories.
- White color, flat design.

Fan coils with DC Inverter Technology

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)	HEATING CAPACITY 70°C WATER INLET (W)	HEATING CAPACITY 50°C WATER INLET (W)	TOTAL COOLING* CAPACITY (W)	MAXIMUM AIRFLOW (m³/h)
20116276	TIVANO 23	580 x 723 x 150	2347	1387	1062	157
20116277	TIVANO 45	580 x 923 x 150	4530	2720	2056	310
20116278	TIVANO 64	580 x 1123 x 150	6436	3827	3211	447
20116279	TIVANO 76	580 x 1323 x 150	7619	4572	3759	559
20116280	TIVANO 94	580 x 1523 x 150	9356	5591	4423	629

* Coil inlet water temperature 7°C, coil outlet water temperature 12°C.

Fan coils with front radiant panel and with DC Inverter Technology

CODE	DESCRIPTION	DIMENSIONS H x W x D (mm)	HEATING CAPACITY 70°C WATER INLET (W)	HEATING CAPACITY 50°C WATER INLET (W)	TOTAL COOLING* CAPACITY (W)	MAXIMUM AIRFLOW (m³/h)
20116281	TIVANO R 23	580 x 723 x 150	2347	1387	1062	157
20116282	TIVANO R 45	580 x 923 x 150	4530	2720	2056	310
20116284	TIVANO R 64	580 x 1123 x 150	6436	3827	3211	447
20116285	TIVANO R 76	580 x 1323 x 150	7619	4572	3759	559
20116288	TIVANO R 94	580 x 1523 x 150	9356	5591	4423	629

* Coil inlet water temperature 7°C, coil outlet water temperature 12°C.

Note: For the operation of the fan coils TIVANO and TIVANO R, it is necessary to buy the interface board ALPHA TIVANO REMOTO (code 20116481) to be used with a common three-speed control, or the control ALPHA TIVANO 20 IN (code 20116484) to operate the fan coil 'on board'.

Fan coils and radiant fan coils for heating, cooling and dehumidification
TIVANO

Accessories for TIVANO and TIVANO R

CODE	DESCRIPTION		CODE	DESCRIPTION
20116481	REMOTE CONTROL INTERFACE - interface board for three-speed control *		20116493	2-way taps kit
20116484	CONTROL PANEL ON BOARD BASIC - control for on board installation with speed selector		20116500	White feet kit
			20116503	"L" coupling 90° kit
20116486	2-way solenoid valve kit (for circulators at variable flow)		20116505	Fitting spacer kit
20116489	3-way solenoid valve kit for circulators at fixed flow)			

* Control not included.

Accessories for TIVANO

CODE	DESCRIPTION		CODE	DESCRIPTION
20120559	TIVANO 23 tray kit for ceiling installation		20120563	TIVANO 76 tray kit for ceiling installation
20120560	TIVANO 45 tray kit for ceiling installation		20120564	TIVANO 94 tray kit for ceiling installation
20120562	TIVANO 64 tray kit for ceiling installation			

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Technical drawings and data

DESCRIPTION	TIVANO 23 / R23	TIVANO 45 / R45	TIVANO 64 / R64	TIVANO 76 / R76	TIVANO 94 / R94	UOM
Dimensions						
Width	723	923	1123	1323	1523	mm
Weight						
Net weight	17	20	23	26	29	kg
HYDRAULIC CONNECTIONS - DISTANCE FROM MIDPOINT (X DISTANCE) - IN CASE OF WALL PIPES						
1- Inlet for 3-way diverter valve installation (with spacer connection)	191	377	543	678	763	m³/h
2- Inlet for 2-way valve installation (with 90° connection)	157	310	447	559	629	m³/h
3- Outlet via 3-way valve	111	247	360	444	484	m³/h
4- Outlet via 2-way valve	54	153	246	366	422	m³/h
5- Condensate drain	10	10	13	13	13	bar
CLEARANCE						
A	140	140	140	140	140	mm
B	80	80	80	80	80	mm
C	20	20	20	20	20	mm
D	20	20	20	20	20	mm
E	400	400	400	400	400	mm
F	2500	2500	2500	2500	2500	mm

TIVANO - TIVANO R

KEY:

1 Inlet for 3-ways diverter valve installation with spacer connection (using code 20116489 and code 20116505)

2 Inlet for 2-ways valve installation with 90° connection (using code 20116486 with code 20116503 or code 20116493 with code 20116503)

3 Outlet via 3-ways valve

4 Outlet via 2-ways valve

5 Condensate drain

WALL-MOUNTED INSTALLATION
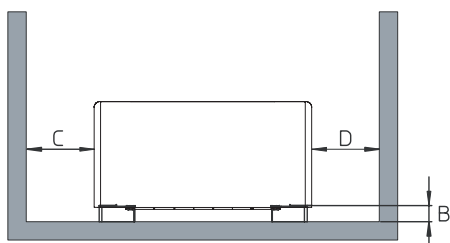
WALL-MOUNTED INSTALLATION
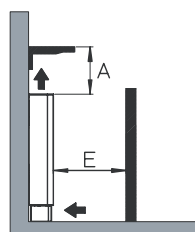
CEILING INSTALLATION
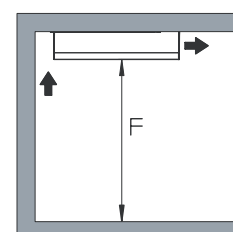
Technical data

DESCRIPTION and MODELS	U.O.M.	TIVANO 23 / R 23	TIVANO 45 / R 45	TIVANO 64 / R 64	TIVANO 76 / R 76	TIVANO 94 / R 94
PERFORMANCE						
Total cooling capacity [a]	W	1062	2056	3211	3759	4423
Sensible cooling capacity	W	829	1562	2517	2997	3565
Water flow rate	l/h	183	354	552	647	761
Water losses	kPa	7.6	8.4	23.0	18.3	24.8
Heating capacity with 50°C inlet water [b]	W	1387	2720	3827	4572	5591
Water flow rate (50 °C water inlet)	l/h	185	357	558	653	769
Water losses (50 °C water inlet)	kPa	6.3	7.0	17.5	14.5	19.2
Heating capacity with 70°C water inlet [c]	W	2347	4530	6436	7619	9356
Water flow rate (70°C Δt 10)	l/h	202	390	553	655	805
Water losses (70°C Δt 10)	kPa	6.9	7.5	16.1	13.5	19.4
Cooling capacity without ventilation (70°C Δt 10)	W	322	379	447	563	690
HYDRAULIC FEATURES						
Water coil content	litres	0.47	0.8	1.13	1.46	1.8
Maximum operating pressure	bar	10	10	10	10	10
Hydraulic connections	inches	eurokonus 3/4				
AERAULIC DATA						
Airflow at "Performance" [d]	m³/h	191(*)	377(*)	543(*)	678(*)	763(*)
Airflow at medium speed (AUTO mode)	m³/h	111(*)	247(*)	360(*)	444(*)	484(*)
Airflow at minimum ventilation speed	m³/h	54(*)	153(*)	246(*)	366(*)	422(*)
Maximum static pressure available	Pa	10	10	13	13	13
ELECTRICAL DATA						
Power supply	V/ph/Hz	230/1/50				
Maximum power consumption [e]	W	15.1	23.2	26.4	36	40.3
Maximum current input [e]	A	0.14	0.21	0.24	0.35	0.38
Absorbed power at minimum speed	W	6	12	14	18	19
SOUND LEVEL						
Sound pressure at "Performance" [g]	dB(A)	43.6	44.5	46.9	47.5	48.7
Sound pressure at medium airflow [g]	dB(A)	34.4	35.3	35.7	36.2	38.9
Sound pressure at minimum airflow [g]	dB(A)	25.3	26.5	26.6	27.4	28.7
Sound pressure at temperature 'setpoint' [g]	dB(A)	19.8	20.5	23.3	23.8	24.7

(a) Coil inlet water temperature 7°C, coil outlet water temperature 12°C, air temperature 27°C d.b. and 19°C w.b. (UNI EN 1397).
(b) Coil inlet water temperature 50°C, water flow rate as in cooling, air temperature 20°C (UNI EN 1397).
(c) Coil inlet water temperature 70°C, coil outlet water temperature 60°C, air temperature 20°C.
(d) Air flow rate measured with clean filters.
(e) With the maximum number of revolutions.
(g) Sound pressure measured in semi-anechoic chamber according to ISO 7779.

(*) Cooling Airflow data.
Concerning Heating Airflow, it is 20 m³/h higher on the model 23 and 40 m³/h higher on all other models, at every speed.

SYSTEM
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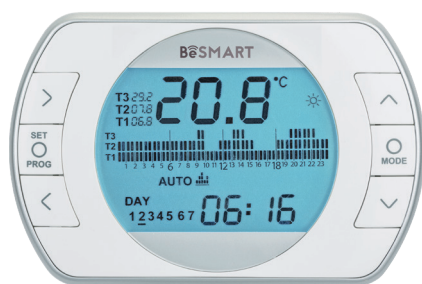
(89mm H x 135mm W x 28mm D)

(86mm H x 86mm W x 21mm D)

ANDROID APP ON
Google play

Available on the
App Store

- **Programmable WiFi thermostat** for the complete control of your home comfort from whereever you are, via your Smartphone and Tablet.
- **It offers the function of remote boiler interface if connected to Beretta boilers via OTBus.**
- Specifically engineered to compliment the Beretta boiler range, **BeSMART, with a back-lit display,** is compatible(*) with the majority of boiler brands on the market, also in WiFi configuration.
- Supplied with WiFi Box for connection to the ADSL home WiFi modem to access Internet.
- BeSMART App available free of charge (for iOS and Android ≥ version 3.0) to download to your Smartphone and Tablet for the home comfort management from anywhere in the world.
- Ideal replacement for old thermostats, not just Beretta, it is available also without WiFi box, to be used as a traditional thermostat.
- Possibility to manage up to 8 different heating zones (non-mixed zones), from wherever you are in the world, also via App.
- 3 temperature levels: comfort, economy, frost protection.
- 4 working modes: auto, manual, party, holiday.
- Cooling mode thermostat setting (also via App).
- Setting room temperature range from +3°C to +35°C, with 0.2°C increments (also via App).
- Weekly central heating programming, at 30-minute intervals (also via App).
- Room temperature and outdoor temperature displayed (also on App).
- Low battery indicator icon (also on App).
- BeSMART outputs:
  wired ON/OFF; wired OTBus; wireless ON/OFF; wireless OTBus.
- End-user account service on Beretta Cloud
- BeSMART is powered by 2 AA 1.5V batteries (included in the package). It therefore does not require a fixed 230V mains power supply.

Exclusive to Beretta (**), additional TOP advantages by BeSMART:
- Complete control of home comfort and boiler - including DHW setting - also via App.
- Enhanced comfort and savings deriving from BeSMART working as modulating programmable thermostat - also via App.
- Alerts notification and remote boiler reset - also via App.
- Possibility of online connection of your boiler to an authorized Beretta Service Centre (check the availability of these additional services in your country with your local distributor).

(*) when used as a WiFi programmable thermostat with boilers with ON/OFF control.
(**) provided that your Beretta boiler features OTBus - see the BeSMART compatible boilers matrix in the following pages.

Wi-Fi Remote Controls and Chronothermostats

CODE	MODEL	FUNCTIONS	DIMENSIONS H X L X D (mm)	CLASS - ErP CONTRIBUTION
20143539	BeSMART Wi-Fi Comfort Control (1) (3)	ON/OFF universal chronothermostat* - modulating** - Wi-Fi remote control	89 x 135 x 28	VI - 4%** I - 1%*
20143659	BeSMART Comfort Control (2) (3)	ON/OFF universal chronothermostat* - modulating** - Remote control	89 x 135 x 28	V - 3%** I -1%*

(1) With Wi-Fi Box for Internet connection via home ADSL Wi-Fi router
(2) For cable connection to the boiler. Compatible for radio frequency connection with Wi-Fi Box code 20111885 for Internet connection via home ADSL router
(3) With boilers in the Exclusive Boiler Green and Exclusive CAI catalogue, code 20164477 "LINK MODE interface board" is required (only in the case of connection via OTBus).
*   With all boilers
** With Beretta boilers

BeSMART Comfort Controls

CODE	DESCRIPTION
20143539	**BeSMART Wi-Fi COMFORT CONTROL** Wireless management control for all boilers, consisting of a chronothermostat and a WiFi device for internet connection through home ADSL WiFi router. It also allows the remote switching on and off of boilers through APP (iOS and Android ≥ vers. 3.0) with Smartphone and Tablet. Remote Control and Modulating Chronothermostat function (band 0.5°C). In conjunction with Beretta boilers [4] (Class VI according to ErP directive). Function for **ON/OFF universal chronothermostat** in combination with all boilers (Class I according to ErP directive). (Also includes: batteries, connection cables, transformer, OTBus connector kit for Ciao Green and Ciao C.A.I. LX, screws, dowels, double sided adhesive tape, magnetic adhesive).
20143659	**BeSMART COMFORT CONTROL** Chronothermostat for cable control of all boilers. Remote Control and Modulating Chronothermostat function (band 0.5°C). In conjunction with Beretta boilers [4] (Class V according to ErP directive). Function for **ON/OFF universal chronothermostat** in combination with all boilers (Class I according to ErP directive). Compatible with "Wi-Fi Box" optional kit for Internet connection via home ADSL Wi-Fi router. (Also includes: batteries, screws, dowels, double sided adhesive tape; does not include OTBus connector kit for Ciao Green and Ciao C.A.I. LX).

(4) With boilers in the Exclusive Boiler Green and Exclusive CAI catalogue, code 20164477 "LINK MODE interface board" is required (only in the case of connection via OTBus).

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Specific accessories for BeSMART

CODE	DESCRIPTION
20111885	Wi-Fi Box for Internet connection via home ADSL router
20101748	ALPHA 7D WIRELESS weekly digital chronothermostat (86x86x20 mm) [1]
20112079	RF - WIRELESS boiler receiver

CODE		DESCRIPTION
20111885		**Wi-Fi BOX** Wi-Fi device that can be combined with BeSMART Comfort Controls (up to 8 pcs). Allows connection to the Internet via Wi-Fi connection to the home ADSL router and radio frequency communication with the BeSMART Comfort Controls. Also includes: connection cables, trans-former, magnetic adhesive.
20101748		**ALPHA 7D WIRELESS WEEKLY DIGITAL CHRONOTHERMOSTAT [1]** ON/OFF chronothermostat. Includes an RF WIRELESS receiver for wireless connection to the boiler. If radio frequency is used to connect with BeSMART Wi-Fi Comfort Control Box, the supplied RF receiver is not required[1].
20112079		**RF - WIRELESS BOILER RECEIVER** (Pre-wired) radio frequency only receiver to be connected in the boiler. It can be used to wirelessly connect a BeSMART Comfort Control with the boiler or to connect a BeSMART Wi-Fi Comfort Control with a boiler far from the home Wi-Fi network. (Also includes magnetic adhesive tape).
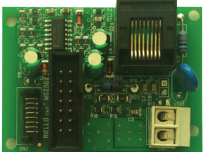
(1) The RF WIRELESS receiver, supplied with the kit, offers a number of alternative uses to the main one of receiving the signal from the ALPHA 7D Chronothermostat in the boiler:
(a) it can be used to activate in RF a zone valve, whose limit switch must anyway be wired in the boiler
(b) in case you have a Wi-Fi Box and the ADSL Wi-Fi signal in the house is weak near the boiler, you can install the RF WIRELESS receiver by connecting it in the boiler instead of the Wi-Fi Box, that in turn could be moved closer to the ADSL Wi-Fi router of the house. In this case the RF WIRELESS receiver would have the function of RF signal bridge and the ALPHA 7D would be paired with the Wi-Fi Box, maintaining the WIRELESS communication.

Specific accessories for BeSMART

CODE	DESCRIPTION
20112080	External photovoltaic probe - WIRELESS
20164477	Interface board kit (LINK MODE) for EXCLUSIVE BOILER GREEN
20164205	OTBus connector for Ciao Green, Ciao AT, Mynute C.A.I. LX, Ciao C.A.I. LX

CODE		DESCRIPTION
20112080		**EXTERNAL PHOTOVOLTAIC PROBE - WIRELESS** Photovoltaic wireless external temperature sensor, for detection and transmission of the outdoor temperature to the compatible Beretta boilers, used to activate the boiler thermoregulation. (Also includes: pre-wired boiler receiver with boiler supply connector, screws, dowels. Compatible with the boilers in the catalogue: Mynute Green E, Mynute Boiler Green, Mynute Rain Green E, Ciao Green.
20164477		**INTERFACE BOARD KIT (LINK MODE)** Interface board required to connect BeSMART Wi-Fi Comfort Control or BeSMART Comfort Control to Exclusive Boiler Green and Exclusive CAI boilers in the catalogue. To be used only in case of operation via OTBus; for use in ON/OFF mode the code is not necessary.
20164205		**OTBus CONNECTOR for CIAO GREEN - CIAO AT - MYNUTE C.A.I. LX - CIAO C.A.I. LX** OTBus connector to be used (only one piece) with boilers Ciao GREEN, Ciao AT and Ciao C.A.I. LX in case you buy code 20143659 BeSMART Comfort Control (the connector is not required with BeSMART Wi-Fi Comfort Control code 20143539 as it is already included in this code).

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BeSMART

A SMARTER THERMOSTAT.

A+ SYSTEM
Possibility to form Class A+ systems, without adding further optionals*, if combined with Mynute Green E, Meteo Green E (also Box versions), Mynute Rain Green E (also Box versions) boilers.

MANAGEMENT OF HOME COMFORT VIA SMARTPHONE AND TABLET
Whether you're off on holiday, out shopping or just working late, you can manage your home heating remotley via the BeSMART App from your smartphone or tablet.

ON/OFF
Universal ON/OFF Chronothermostat function compatible with all boilers even in the case of replacement. Class I and 1% contribution according to ErP directive on seasonal performance, in System calculation.

0.5 BAND MODULATING
Remote Control and Modulating Chronothermostat function (band 0.5°C) paired with Beretta boilers*. Class VI and 4% contribution according to ErP directive on seasonal performance, in System calculation.

MANAGEMENT WITH TABLET AND SMARTPHONE
Compatible with Smartphones and Tablets that use Android system (≥ vers. 3.0) or iOS.

FREE OF CHARGE APP
BeSMART App is downloadable free of charge for Android (≥ 3.0 version) and iOS for the operation and programming of your boiler wherever you are, via smartphone and tablet.

WiFi
WiFi communication between the WiFi Box and the WiFi ADSL home modem router to connect your BeSMART to the internet. As an alternative to the ADSL modem, possibility of internet connection through the specific WiFi router for SIM card (See BeSMART accessories).

MULTIZONE
Possibilty to manage up to 8 different heating zones from wherever you are in the world via App, from your smartphone or tablet. (RF/ Radio Frequency communication among BeSMART Controls - wireless communication within 40m distance).

24 HOUR - 7 DAY PROGRAMMING
24 hour weekly programming; possibility to choose among different pre-set programs.

CENTRAL HEATING 24 HOUR PROGRAMMING
24 hour central heating programming, at 30 minutes intervals.

COOLING 24 HOUR PROGRAMMING
24 hour cooling programming, at 30 minutes intervals (if combined with a heat pump).
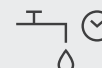
DOMESTIC HOT WATER 24-HOUR PROGRAMMING
24-hour DHW programming, at 30 minutes intervals (enabled via OTBus connection).

HOLIDAY FUNCTION
Enables to enter the number of days you will be away on holiday, during which your heatgenerator will work in order to keep an energy-saving temperature.

OUTDOOR TEMPERATURE
Outdoor temperature can be read by the outdoor sensor or from internet. If you set the home location on the App of your smartphone or tablet, the outdoor temperature can be read from internet.

INDOOR TEMPERATURE
Indoor temperature is displayed on BeSMART or can be monitored through the BeSMART App via Smartphone or Tablet.

PARTY FUNCTION
Enables unscheduled and immediate activation of heating/cooling (comfort T3 temperature) until the midnight of that day, without modifying the set program.

Systems for the home comfort management via smartphone and tablet

BESMART

Beretta

BESMART COMPATIBLE BOILERS TABLE

This matrix shows the compatibility of BeSMART with the current Beretta boilers.
A full list of Beretta compatible boilers (including old models) is available at www.besmart-home.com

In the following pages, you will find several schemes showing the main application solutions of BeSMART.
Unders each scheme are the codes of the components necessary to achieve that type of installation.

	CONDENSING BOILERS												STANDARD EFFICIENCY BOILERS										
	WALL-HUNG BOILERS											FLOOR-STANDING BOILERS	WALL-HUNG BOILERS								FLOOR-STANDING BOILERS		
	MySMART	Exclusive C/R	Exclusive BOILER GREEN HE	Mynute X	Mynute GREEN E	Mynute BOILER GREEN	Ciao GREEN	Quadra GREEN	Ciao AT	Power X	Power MAX	Tower GREEN HE (range)	Exclusive MIX	Mynute Lx	Mynute S	Ciao S	Quadra II Lx	Quadra II	Ciao Lx	Ciao	Novella RAP	Novella E	Fabula E
20143539 BESMART WIFI CONTROL KIT *ON/OFF*	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20143539 BESMART WIFI CONTROL KIT *OTBus*	■	■	■ (A)	■	■	■	■	■	■				■ (A)	■	■	■	■	■	■	■			
20143659 BESMART CONTROL *ON/OFF*	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20143659 BESMART CONTROL *OTBus*	■	■	■ (A)	■	■	■	■ (B)	■ (B)	■ (B)				■ (A)	■	■	■ (B)	■ (B)	■ (B)	■ (B)	■ (B)			
20164477 OTBus INTERFACE BOARD			■										■										
20164205 OTBus CONNECTOR							■ (C)	■ (C)	■ (C)							■ (C)	■ (C)	■ (C)	■ (C)	■ (C)			
20112080 PV EXTERNAL SENSOR KIT	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■				

(A) To enable OTBus connection with this boiler range, it is necessary the OTBus Interface Board (code 20164477).
(B) To enable OTBus connection with this boiler range, it is necessary the OTBus connector (code 20164205), in addition to the BeSMART CONTROL (code 20143659).
(C) This code is necessary in addition only to BeSMART CONTROL (code 20143659), to enable OTBus connection with this boiler range.
In the BeSMART WIFI CONTROL KIT, the OTBus connector is included as standard in the package.

as UNIVERSAL WIFI PROGRAMMABLE THERMOSTAT — ON/OFF control

The typical BeSMART 'universal' solution, ideal also for replacement.
This application can be used on all brands of boilers that have a simple ON/OFF control, not just Beretta. Use the two existing wires to connect directly to the ON/OFF terminals of the BeSMART control. Connect the BeSMART WiFi box to a power outlet, download the BeSMART App to your tablet or smartphone (from the App Store or Google play) and follow the instructions to program your system.
Now you can start 'surfing' in the home comfort, from wherever you are.
It couldn't be simpler.

A — 230 V — ADSL — INTERNET

use the 2-wire volt-free **ON/OFF** contact originating from the boiler, to connect your BeSMART

install the WiFi Box where you want, concealed if you wish

ADSL WiFi modem (*) for home internet connection to Beretta CLOUD

download the BeSMART App to your smartphone or tablet to control your home comfort from wherever you are

(*) In case the ADSL WiFi modem is not present, you can buy the "WIFI ROUTER FOR SIM CARD" (code 20112113), enabling internet connection via a SIM data card. See BeSMART specific accessories.

NB: When replacing a thermostat that has more than two wires, identify the 'switch' wires and connect only them to the BeSMART ON/OFF terminals (do not connect a Neutral supply).

single zone configuration			
REFERENCE	CODE	QUANTITY	DESCRIPTION
A	20143539	1	BeSMART WIFI CONTROL KIT

BESMART WIFI single zone — SCHEME 2

as MODULATING WIFI PROGRAMMABLE THERMOSTAT — via Beretta OTBus connection

Exclusive to Beretta, an advanced solution and enhanced service that is enabled via your boiler's OTBus connection.
With BeSMART and Beretta OTBus, you will have a greater degree of connectivity: you can view your boiler's operating conditions, alerts, parameters, home and outdoor temperature and much more. You can even reset your boiler when needed. You also have the possibility of online connection of your boiler to an authorized Beretta Service Centre (check the availability of this additional service in your country with your local distributor).
Furthermore, BeSMART WiFi combined with Beretta boilers of latest generation enables to create, without additional optionals, A+ Class systems (*).
Check the OTBus compatibilty for each boiler in the BeSMART compatible boilers matrix.
For older Beretta boilers, check on the site www.besmart-home.com which models are compatible with OTBus.

install the WiFi Box close to the boiler

A

2-wire connection to the OTBus

230 V

ADSL WiFi modem(**) for home internet connection to Beretta CLOUD

INTERNET

download the BeSMART App to your smartphone or tablet and enjoy the TOP advantages offered by BeSMART and Beretta

(*) Check the product matrix of Beretta condensing boilers in this catalogue to see which models achieve A+ class system.
(**) In case the ADSL WiFi modem is not present, you can buy the "WIFI ROUTER FOR SIM CARD" (code 20112113), enabling internet connection via a SIM data card. See BeSMART specific accessories.

single zone configuration

REFERENCE	CODE	QUANTITY		DESCRIPTION
A	20143539	1		BeSMART WIFI CONTROL KIT

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BESMART WIFI multi-zone   SCHEME 3

as UNIVERSAL PROGRAMMABLE WIFI THERMOSTAT   zone valve control and boiler ON/OFF control

Even in existing multi-zone systems, BeSMART is simple and universal.
BeSMART has a control relay for zone valve (max 0.25A at 230 V, or max 2 A at 24V).
Just replace each of the old thermostats with a BeSMART and connect the wires to the BeSMART output relay.
As an alternative option, an RF Programmable Room Thermostat can be used for each additional zone.
See BeSMART accessories.

2-wire relay contact

| 2 wire volt-free contact for ON/OFF control and zone valve switching | max 8 zones (non-mixed zones) | install the WiFi Box where you want, concealed if you wish | ADSL home WiFi modem(*) for internet connection to Beretta CLOUD | download the BeSMART App to your smartphone or tablet to control your home zone comfort from wherever you are |

(*) In case the ADSL WiFi modem is not present, you can buy the "WIFI ROUTER FOR SIM CARD" (code 20112113), enabling internet connection via a SIM data card. See BeSMART specific accessories.

NB: When replacing a thermostat that has more than two wires, identify the 'switch' wires and connect only them to the BeSMART ON/OFF terminals (do not connect a Neutral supply).

ex. configuration for 3 zones **

REFERENCE	CODE	QUANTITY		DESCRIPTION
A	20143539	1		BeSMART WIFI CONTROL KIT
B	20143659	2		BeSMART CONTROL

(**) In case of 8 zones, for example, you would require 7 x code 20143659 (BeSMART Control), in addition to 1 x code 20143539 (BeSMART WIFI CONTROL KIT).

| BESMART WIFI multi-zone | SCHEME 4 |

| as MODULATING WIFI PROGRAMMABLE THERMOSTAT | zone valve control via Beretta OTBus connection |

Even on multi-zone systems, with a Beretta boiler that is OTBus compatible, you can enable advanced service and benefit TOP advantages. With BeSMART and Beretta OTBus, you will have a greater degree of connectivity: you can view your boiler's operating conditions, alerts, parameters, home and outdoor temperature and much more. You can even reset your boiler when needed. You also have the possibility to connect online your boiler to an authorized Beretta Service Centre (check the availability of this additional service in your country with your local distributor).
Furthermore, BeSMART WiFi combined with Beretta boilers of latest generation enables to create, without additional optionals, A+ Class systems (*).
Check the OTBus compatibilty for each boiler in the BeSMART compatible boilers matrix.
For older Beretta boilers, check on the site www.besmart-home.com which models are compatible with OTBus.

2-wire relay contact · 2-wire connection to OTBus · A+ SYSTEM · exclusively BERETTA

max 8 zones (non-mixed zones) · 2-wire volt-free contact to energize zone valves · install the WiFi Box close to the boiler · ADSL home WiFi modem(**) for internet connection to Beretta CLOUD · download the BeSMART App to your smartphone or tablet and enjoy the TOP advantages offered by BeSMART and Beretta

(*) Check the product matrix of Beretta condensing boilers in this catalogue to see which models achieve A+ class system.
(**) In case the ADSL WiFi modem is not present, you can buy the "WIFI ROUTER FOR SIM CARD" (code 20112113), enabling internet connection via a SIM data card. See BeSMART specific accessories.
NB: When replacing a thermostat that has more than two wires, identify the 'switch' wires and connect only them to the BeSMART ON/OFF terminals (do not connect a Neutral supply).

ex. configuration for 3 zones ***

REFERENCE	CODE	QUANTITY		DESCRIPTION
A	20143539	1		BeSMART WIFI CONTROL KIT
B	20143659	2		BeSMART CONTROL

(***) In case of 8 zones, for example, you would require 7 x code 20143659 (BeSMART CONTROL), in addition to 1 x code 20143539 (BeSMART WIFI CONTROL KIT).

BESMART - single zone	SCHEME 5

as UNIVERSAL PROGRAMMABLE THERMOSTAT	ON/OFF control

If you are not interested in the home comfort management via Smartphone or Tablet, BeSMART can work also as a traditional programmable thermostat.
This application is ideal also for replacement, as BeSMART is compatible with all brands of boilers that have an ON/OFF control.
Use the two existing wires to connect directly to the ON/OFF terminals of BeSMART control.
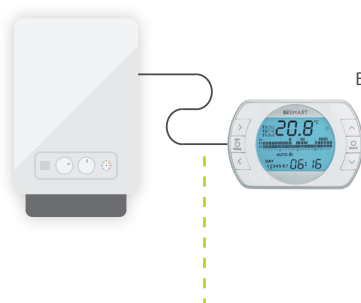
use the 2-wire volt-free
ON/OFF contact, originating
from the boiler, to connect
your BeSMART

NB: When replacing a thermostat that has more than two wires, identify the 'switch' wires and connect only them to the BeSMART ON/OFF terminals
(do not connect a Neutral supply).

single zone configuration			
REFERENCE	**CODE**	**QUANTITY**	**DESCRIPTION**
B	20143659	1	BeSMART CONTROL

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

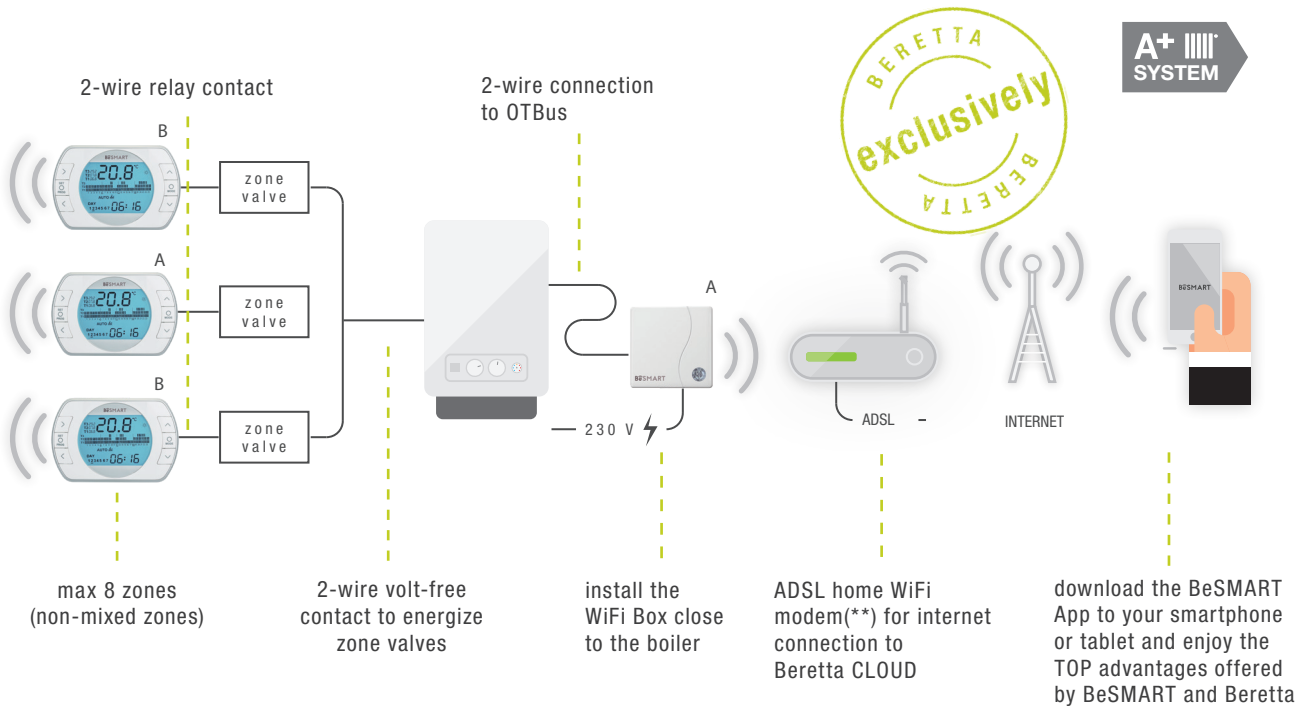SYSTEM COMPLEMENTARY ITEMS

BESMART - single zone   SCHEME 6

as MODULATING PROGRAMMABLE THERMOSTAT   via Beretta OTBus connection

Exclusive to Beretta, if you are not interested in the home comfort management via Smartphone or Tablet and your boiler is OTBus compatible, BeSMART can work as a modulating programmable thermostat. In addition, with BeSMART and Beretta OTBus, you will have a greater degree of connectivity: you can view your boiler's operating conditions, alerts, parameters, home and outdoor temperature and much more. You can also reset your boiler when needed. Furthermore, BeSMART WiFi combined with Beretta boilers of latest generation enables to create, without additional optionals, A+ Class systems (*).
Check the OTBus compatibilty for each boiler in the BeSMART compatible boilers matrix.
For older Beretta boilers, check on the site www.besmart-home.com which models are compatible with OTBus.

connect the 2-wire
OTBus contact to the
BeSMART Control
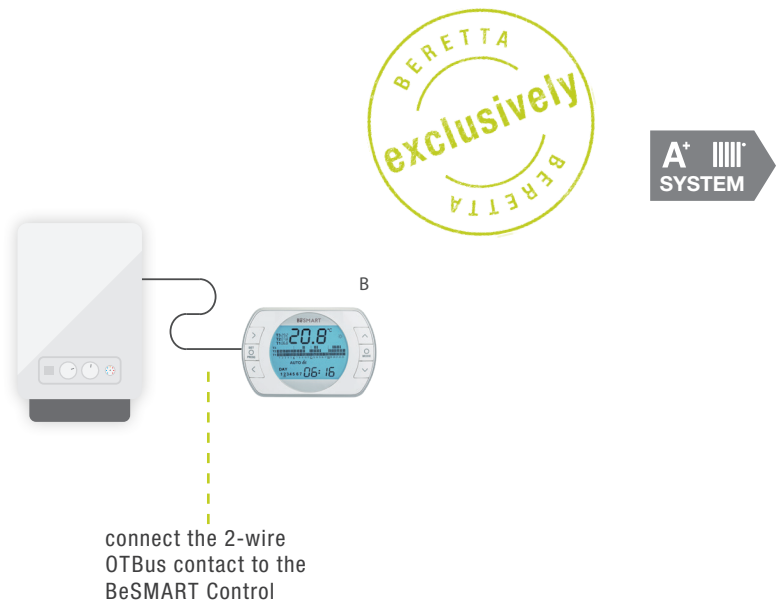
(*) Check the product matrix of Beretta condensing boilers in this catalogue to see which models achieve A+ class system.

single zone configuration			
REFERENCE	**CODE**	**QUANTITY**	**DESCRIPTION**
B	20143659	1	BeSMART CONTROL

BESMART - single zone   SCHEME 7

as RF MODULATING PROGRAMMABLE THERMOSTAT   via Beretta OTBus connection and RF receiver

Exclusive to Beretta, if your boiler is OTBus compatible and you are not interested in the home comfort management via Smartphone or Tablet, BeSMART can work also as an RF wireless modulating programmable thermostat, while ensuring in addition all extensive advantages from Beretta and OTBus: you can view your boiler's operating conditions, alerts, parameters, home and outdoor temperature and much more. You can also reset your boiler when needed.

The receiving range between BeSMART Control and the RF receiver is 40 metres, which is large enough for most household applications. Anyway, in this RF configuration, BeSMART doesn't need to be wall mounted, as it is powered by batteries.

Furthermore, BeSMART combined with Beretta boilers of latest generation enables to create, without additional optionals, A+ Class systems (*).

Check the OTBus compatibilty for each boiler in the BeSMART compatible boilers matrix.

For older Beretta boilers, check on the site www.besmart-home.com which models are compatible with OTBus.

connect the 2-wire
OTBus contact
to the boiler RF
receiver

place BeSMART wherever you like
in your home; in RF configuration,
no need of wall-hung installation, as
BeSMART control is battery powered
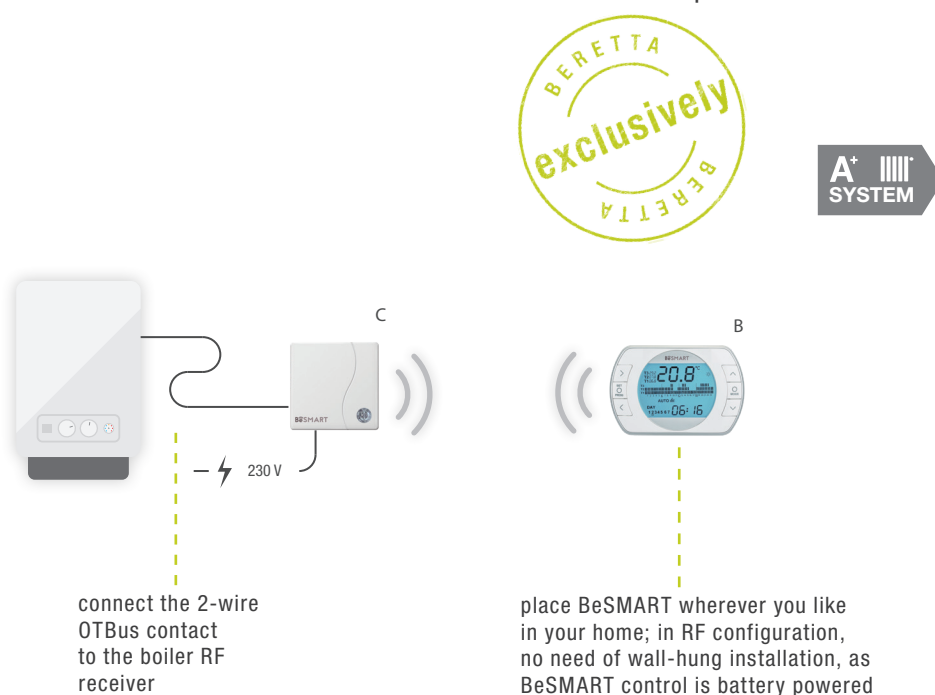
(*) Check the product matrix of Beretta condensing boilers in this catalogue to see which models achieve A+ class system.

single zone configuration			
REFERENCE	**CODE**	**QUANTITY**	**DESCRIPTION**
B	20143659	1	BeSMART CONTROL
C	20112079	1	BOILER RF RECEIVER

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Programmable digital room thermostat

ALPHA 7D / ALPHA 7D WIRELESS

Beretta

- 7-day programmable room thermostat (in 60-minutes steps).
- Built-in heating programme.
- **3°C ÷ 35°C selectable temperature range with 0.2°C increments.**
- 4 modes of operation: auto, advance, off, party.
- 3-temperature selections – comfort, economy, frost.
- Display boiler 'ON'.
- Selectable ON/OFF hysteresis.
- Low battery indicator.
- Summer function for cooling mode (separator relay needed).
- Included in the package: 1.5V batteries (type AAA), screws and wall plugs, double side adhesive.

Additional features on Alpha 7D Wireless
- Wireless for a flexible installation (pre-cabled).
- 40-metre range.
- Receiver can be mounted to wall (screws and plugs included) or mounted to the side of the boiler (magnetic strips included).

7-day programmable room thermostat

CODE	MODEL	TYPE	CLASS ErP CONTRIBUTION	DIMENSIONS H x W x D (mm)
20063872	ALPHA 7D	7-day digital room-thermostat	I - 1%	86 × 86 × 20
20101748	ALPHA 7D WIRELESS	7-day digital room-thermostat wireless	I - 1%	86 × 86 × 20

- Digital room thermostat.
- **5°C ÷ 35°C selectable temperature range with 0.2°C increments.**
- Easy to read digital display.
- Tactile and easy to rotate selector dial.
- Simple installation.
- Selectable ON/OFF hysteresis.
- Included in the package: 1.5V batteries (type AAA), screws and wall plugs, double side adhesive.

Additional features on Alpha DGT Wireless
- Wireless for a flexible installation (pre-cabled).
- 40-metre range.
- Receiver can be mounted to wall (screws and plugs included) or mounted to the side of the boiler (magnetic strips included).

Digital room thermostat

CODE	MODEL	TYPE	CLASS ErP CONTRIBUTION	DIMENSIONS H x W x D (mm)
20059639	ALPHA DGT	Digital room-thermostat	I - 1%	86 × 86 × 20
20059641	ALPHA DGT WIRELESS	Digital room-thermostat wireless	I - 1%	86 × 86 × 20

Thermoregulation devices
BESMART WI-FI AND BESMART

Beretta

BeSMART Wi-Fi   **BeSMART**

- They allow the remote control of the boiler
- Operating status display
- Weekly chronothermostat

CODE / DESCRIPTION	CONDENSATION	Exclusive Boiler GREEN HE	Exclusive C/R	Ciao GREEN	Mynute Boiler GREEN	Mynute X	Ciao AT	Mynute GREEN E	STANDARD	Exclusive	Mynute LX	Mynute BOILER	Ciao LX	Meteo LX
20143539 — BeSMART Wi-Fi COMFORT CONTROL		■	■	■	■	■	■	■		■	■	■	■	
20143659 — BeSMART COMFORT CONTROL		■	■	■	■	■	■	■		■	■	■	■	AS STANDARD
20039694 — SUN 1 THERMOSTAT WITH PROBES FOR BOILER														
20164477 — INTERFACE BOARD KIT (LINK MODE) [1]		■								■				
20164205 — OTBus CONNECTOR [2]				■			■						■	
1220559 — OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR [3]		AS STANDARD	■	■	■	■		■		■	■	■		

(1) The code is necessary with the boilers indicated both in case of BeSMART Wi-Fi Comfort Control code 20143539 and in case of BeSMART Comfort Control code 20143659

(2) The code is not required when purchasing the BeSMART Wi-Fi Comfort Control code 20143539 as it is already included in this code, but it is necessary when purchasing BeSMART Comfort Control code 20143659 and using Ciao Green, Ciao AT, Ciao S LX boilers

(3) The external temperature probe must be directly connected to the board present in the boiler.

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

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TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SP - INSPECTABLE PLATE HEAT EXCHANGER

Beretta
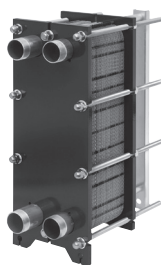
- AISI 316 L stainless steel inspectable plate exchangers
- NBR seals
- AISI 316 stainless steel threaded connections
- Maximum operating temperature 110 °C
- Maximum pressure 10 bar

Plate exchangers DN 50 - 65 - 100

CODE	MODEL	No. OF PLATES	DN	MIX %*	KIT C [1]	KIT P [2]	WEIGHT KG
20140410	SP 35 - DN50 25 (25A) N	25	DN50	100	KIT C17	KIT P2	89
20140411	SP 35 - DN50 31 (31A) N	31	DN50	100	KIT C17	KIT P2	92
20140412	SP 35 - DN50 35 (35A) N	35	DN50	100	KIT C17	KIT P2	94
20140413	SP 35 - DN50 39 (39A) N	39	DN50	100	KIT C17	KIT P2	96
20140414	SP 35 - DN50 45 (45A) N	45	DN50	100	KIT C18	KIT P2	103
20140415	SP 35 - DN50 49 (49A) N	49	DN50	100	KIT C18	KIT P2	105
20140416	SP 35 - DN50 57 (57A) N	57	DN50	100	KIT C18	KIT P2	109
20140418	SP 35 - DN50 65 (65A) N	65	DN50	100	KIT C18	KIT P2	113
20140419	SP 35 - DN50 75 (75A) N	75	DN50	100	KIT C19	KIT P2	122
20140420	SP 35 - DN50 81 (81A) N	81	DN50	100	KIT C19	KIT P2	125
20140421	SP 35 - DN50 93 (93A) N	93	DN50	100	KIT C19	KIT P2	131
20140423	SP 35 - DN50 105 (105A) N	105	DN50	100	KIT C20	KIT P2	143
20140424	SP 35 - DN50 121 (121A) N	121	DN50	100	KIT C20	KIT P2	151
20014230	SP 40 - DN65 19 (19A) N	19	DN 65	100	KIT C6	KIT P2	105
20014218	SP 40 - DN65 23 (23A) N	23	DN 65	100	KIT C6	KIT P2	108
20014219	SP 40 - DN65 27 (27A) N	27	DN 65	100	KIT C6	KIT P2	111
20014235	SP 40 - DN65 35 (35A) N	35	DN 65	100	KIT C6	KIT P2	116
20014232	SP 40 - DN65 47 (47A) N	47	DN 65	100	KIT C7	KIT P2	128
20014231	SP 40 - DN65 59 (59A) N	59	DN 65	100	KIT C7	KIT P2	136
20140425	SP 40 - DN65 67 (67A) N	67	DN 65	100	KIT C7	KIT P2	144
20140426	SP 40 - DN65 75 (75A) N	75	DN 65	100	KIT C8	KIT P2	154
20140427	SP 40 - DN65 93 (93A) N	93	DN 65	100	KIT C8	KIT P2	166
20140428	SP 40 - DN65 99 (99A) N	99	DN 65	100	KIT C8	KIT P2	171
20140429	SP 40 - DN65 111 (111A) N	111	DN 65	100	KIT C21	KIT P2	185
20140432	SP 40 - DN65 121 (121A) N	121	DN 65	100	KIT C21	KIT P2	192
20140433	SP 40 - DN65 145 (145A) N	145	DN 65	100	KIT C21	KIT P2	209
20140435	SP 60 - DN100 51 (51A) N	51	DN 100	100	KIT C15	KIT P3	415
20140437	SP 60 - DN100 59 (59A) N	59	DN 100	100	KIT C15	KIT P3	427
20140438	SP 60 - DN100 65 (65A) N	65	DN 100	100	KIT C15	KIT P3	435
20140439	SP 60 - DN100 73 (73A) N	73	DN 100	100	KIT C15	KIT P3	447
20083248	SP 60 - DN100 77 (77A) N	77	DN 100	100	KIT C15	KIT P3	442
20140440	SP 60 - DN100 85 (85A) N	85	DN 100	100	KIT C15	KIT P3	464
20083249	SP 60 - DN100 97 (97A) N	97	DN 100	100	KIT C15	KIT P3	471
20140441	SP 60 - DN100 107 (107A) N	107	DN 100	100	KIT C16	KIT P3	517

Delivery time of the material if not available in stock: up to 30 working days from order validation date.
*Mix % of high yield plates. - ([1]) KIT C = insulation kit - [2] KIT P = feet kit

Connections for use with Power Max thermal module

CODE	DESCRIPTION
20132373	Connection kit for plate exchanger (DN80 on 3" collector side /DN50 on plate exchanger side) [1]
20132375	Connection kit for plate exchanger (DN125 on 5" collector side /DN65 on plate exchanger side) [1]
20132376	Connection kit for plate exchanger (DN125 on 5" collector side /DN100 on plate exchanger side) [1]

[1] Connection kit with SP exchangers. For selection of the suitable plate exchanger, please contact the pre-sales service
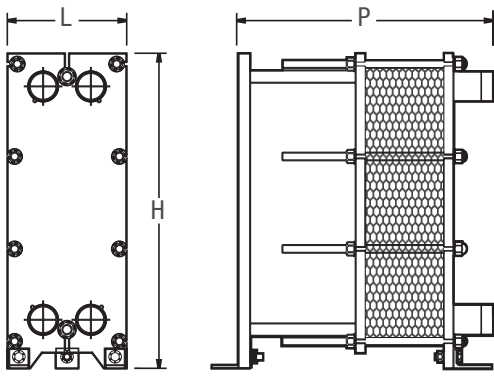
Accessories for plate exchangers

CODE	MODEL	No. OF PLATES	MODEL EXCHANGER
20140442	C17 insulation kit **	up to 41	SP 35
20140443	C18 insulation kit **	up to 71	SP 35
20140444	C19 insulation kit **	up to 101	SP 35
20140445	C20 insulation kit **	up to 151	SP 35
20090501	C6 insulation kit **	up to 41	SP 40
20096867	C7 insulation kit **	up to 71	SP 40
20096868	C8 insulation kit **	up to 101	SP 40
20140446	C21 insulation kit **	up to 151	SP 40
20096918	C15 insulation kit **	up to 101	SP 60
20116198	C16 insulation kit **	up to 201	SP 60
20120282	P2 feet kit **	-	SP 35-40
20120284	P3 feet kit **	-	SP 60

Delivery time of the material if not available in stock: up to 30 working days from order validation date.

** Accessories to be ordered only together with the exchanger. - ([1]) KIT C = insulation kit - [2] KIT P = feet kit

Dimensions of SP Exchangers
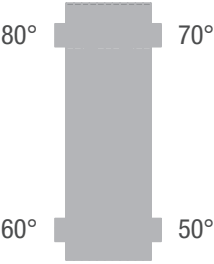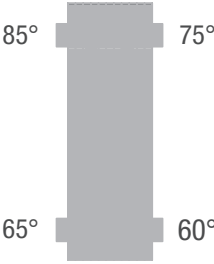
COMMERCIAL NAME	No. OF PLATES from - to	H mm	L mm	P mm
SP 35	25 - 39	950	400	408
	45 - 65	950	400	548
	75 - 93	950	400	688
	105 - 121	950	400	918
SP 40	19 - 35	819	310	418
	47 - 67	819	310	558
	75 - 99	819	310	718
	111 - 145	819	310	948
SP 60	51 - 107	1124	530	775

Model name

PLATE EXCHANGER

TYPE OF PLATE (35 - 40 - 60)

CONNECTION DIAMETER (50 and 65 threaded, 100 flanged)

TOTAL NUMBER OF PLATES

NUMBER OF HIGH EFFICIENCY PLATES

"N" NBR SEAL

| SP | 35 | DN50 | 25 | (25A) | N |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

FLOOR STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

SP - INSPECTABLE PLATE HEAT EXCHANGER

Beretta
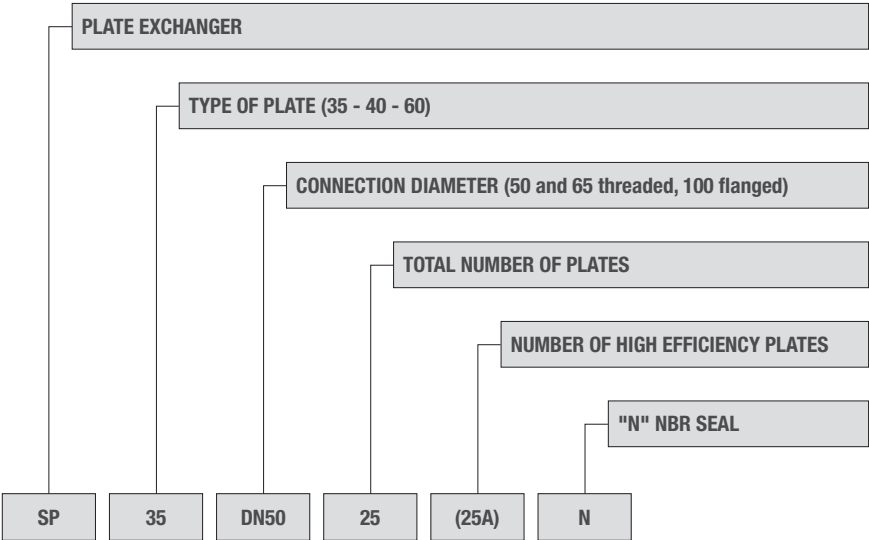
			ΔT$_{ml}$ = 10°C			ΔT$_{ml}$ = 7.2°C		
HIGH TEMPERATURE COMBINATIONS			80° → 70° / 60° → 50°			85° → 75° / 65° → 60°		
NO. OF GENERATORS IN CASCADE	MODEL	DELIVERED OUTPUT [kW]	EXCHANGER	DN	CODE	EXCHANGER	DN	CODE
2	Power Max 2x 50 P DEP	70	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 25 (25A) N	DN 50	20140410
	Power Max 2x 50 P	90	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 31 (31A) N	DN 50	20140411
	Power Max 2x 65 P	114	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 35 (35A) N	DN 50	20140412
	Power Max 2x 80 P	136	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 39 (39A) N	DN 50	20140413
	Power Max 2x 100	180	SP 35 - DN50 31 (31A) N	DN 50	20140411	SP 35 - DN50 49 (49A) N	DN 50	20140415
	Power Max 2x 110	194	SP 35 - DN50 35 (35A) N	DN 50	20140412	SP 35 - DN50 57 (57A) N	DN 50	20140416
	Power Max 2x 130 (115 Hi)	224	SP 35 - DN50 39 (39A) N	DN 50	20140413	SP 35 - DN50 65 (65A) N	DN 50	20140418
	Power Max 2x 150	262	SP 35 - DN50 45 (45A) N	DN 50	20140414	SP 35 - DN50 75 (75A) N	DN 50	20140419
3	Power Max 3x 50 P DEP	105	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 31 (31A) N	DN 50	20140411
	Power Max 3x 50 P	135	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 39 (39A) N	DN 50	20140413
	Power Max 3x 65 P	171	SP 35 - DN50 31 (31A) N	DN 50	20140411	SP 35 - DN50 49 (49A) N	DN 50	20140415
	Power Max 3x 80 P	204	SP 35 - DN50 35 (35A) N	DN 50	20140412	SP 35 - DN50 57 (57A) N	DN 50	20140416
	Power Max 3x 100	270	SP 35 - DN50 45 (45A) N	DN 50	20140414	SP 35 - DN50 75 (75A) N	DN 50	20140419
	Power Max 3x 110	291	SP 35 - DN50 49 (49A) N	DN 50	20140415	SP 35 - DN50 81 (81A) N	DN 50	20140420
	Power Max 3x 130 (115 Hi)	336	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 3x 150	393	SP 35 - DN50 65 (65A) N	DN 50	20140418	SP 35 - DN50 105 (105A) N	DN 50	20140423
4	Power Max 4x 50 P DEP	140	SP 35 - DN50 25 (25A) N	DN 50	20140410	SP 35 - DN50 39 (39A) N	DN 50	20140413
	Power Max 4x 50 P	180	SP 35 - DN50 31 (31A) N	DN 50	20140411	SP 35 - DN50 49 (49A) N	DN 50	20140415
	Power Max 4x 65 P	228	SP 35 - DN50 39 (39A) N	DN 50	20140413	SP 35 - DN50 65 (65A) N	DN 50	20140418
	Power Max 4x 80 P	272	SP 35 - DN50 45 (45A) N	DN 50	20140414	SP 35 - DN50 75 (75A) N	DN 50	20140419
	Power Max 4x 100	360	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 4x 110	388	SP 35 - DN50 65 (65A) N	DN 50	20140418	SP 35 - DN50 105 (105A) N	DN 50	20140423
	Power Max 4x 130 (115 Hi)	448	SP 35 - DN50 75 (75A) N	DN 50	20140419	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 4x 150	524	SP 40 - DN65 59 (59A) N	DN 65	20014231	SP 40 - DN65 99 (99A) N	DN 65	20140428
5	Power Max 5x 50 P DEP	175	SP 35 - DN50 31 (31A) N	DN 50	20140411	SP 35 - DN50 49 (49A) N	DN 50	20140415
	Power Max 5x 50 P	225	SP 35 - DN50 39 (39A) N	DN 50	20140413	SP 35 - DN50 65 (65A) N	DN 50	20140418
	Power Max 5x 65 P	285	SP 35 - DN50 49 (49A) N	DN 50	20140415	SP 35 - DN50 75 (75A) N	DN 50	20140419
	Power Max 5x 80 P	340	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 5x 100	450	SP 35 - DN50 75 (75A) N	DN 50	20140419	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 5x 110	485	SP 35 - DN50 81 (81A) N	DN 50	20140420	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 5x 130 (115 Hi)	560	SP 40 - DN65 67 (67A) N	DN 65	20140425	SP 40 - DN65 99 (99A) N	DN 65	20140428
	Power Max 5x 150	655	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 121 (121A) N	DN 65	20140432

SP - INSPECTABLE PLATE HEAT EXCHANGER

NO. OF GENERATORS IN CASCADE	MODEL	DELIVERED OUTPUT [kW]	EXCHANGER	DN	CODE	EXCHANGER	DN	CODE
6	Power Max 6x 50 P DEP	209	SP 35 - DN50 35 (35A) N	DN 50	20140412	SP 35 - DN50 57 (57A) N	DN 50	20140416
	Power Max 6x 50 P	270	SP 35 - DN50 45 (45A) N	DN 50	20140414	SP 35 - DN50 75 (75A) N	DN 50	20140419
	Power Max 6x 65 P	342	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 6x 80 P	408	SP 35 - DN50 65 (65A) N	DN 50	20140418	SP 35 - DN50 105 (105A) N	DN 50	20140423
	Power Max 6x 100	540	SP 40 - DN65 67 (67A) N	DN 65	20140425	SP 40 - DN65 99 (99A) N	DN 65	20140428
	Power Max 6x 110	582	SP 40 - DN65 67 (67A) N	DN 65	20140425	SP 40 - DN65 111 (111A) N	DN 65	20140429
	Power Max 6x 130 (115 Hi)	672	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 121 (121A) N	DN 65	20140432
	Power Max 6x 150	786	SP 40 - DN65 93 (93A) N	DN 65	20140427	SP 40 - DN65 145 (145A) N	DN 65	20140433
7	Power Max 7x 50 P DEP	244	SP 35 - DN50 45 (45A) N	DN 50	20140414	SP 35 - DN50 65 (65A) N	DN 50	20140418
	Power Max 7x 50 P	315	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 7x 65 P	399	SP 35 - DN50 65 (65A) N	DN 50	20140418	SP 35 - DN50 105 (105A) N	DN 50	20140423
	Power Max 7x 80 P	476	SP 35 - DN50 81 (81A) N	DN 50	20140420	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 7x 100	630	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 111 (111A) N	DN 65	20140429
	Power Max 7x 110	679	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 121 (121A) N	DN 65	20140432
	Power Max 7x 130 (115 Hi)	784	SP 40 - DN65 93 (93A) N	DN 65	20140427	SP 40 - DN65 145 (145A) N	DN 65	20140433
	Power Max 7x 150	917	SP 60 - DN100 51 (51A) N	DN 100	20140435	SP 60 - DN100 73 (73A) N	DN 100	20140439
8	Power Max 8x 50 P DEP	279	SP 35 - DN50 49 (49A) N	DN 50	20140415	SP 35 - DN50 75 (75A) N	DN 50	20140419
	Power Max 8x 50 P	360	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 8x 65 P	456	SP 35 - DN50 75 (75A) N	DN 50	20140419	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 8x 80 P	544	SP 40 - DN65 67 (67A) N	DN 65	20140425	SP 40 - DN65 99 (99A) N	DN 65	20140428
	Power Max 8x 100	720	SP 40 - DN65 93 (93A) N	DN 65	20140427	SP 40 - DN65 145 (145A) N	DN 65	20140433
	Power Max 8x 110	776	SP 40 - DN65 93 (93A) N	DN 65	20140427	SP 40 - DN65 145 (145A) N	DN 65	20140433
	Power Max 8x 130 (115 Hi)	896	SP 60 - DN100 59 (59A) N	DN 100	20140437	SP 60 - DN100 73 (73A) N	DN 100	20140439
	Power Max 8x 150	1048	SP 60 - DN100 59 (59A) N	DN 100	20140437	SP 60 - DN100 85 (85A) N	DN 100	20140440
9	Power Max 9x 50 P DEP	314	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 9x 50 P	405	SP 35 - DN50 65 (65A) N	DN 50	20140418	SP 35 - DN50 105 (105A) N	DN 50	20140423
	Power Max 9x 65 P	513	SP 40 - DN65 59 (59A) N	DN 65	20014231	SP 40 - DN65 99 (99A) N	DN 65	20140428
	Power Max 9x 80 P	612	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 111 (111A) N	DN 65	20140429
	Power Max 9x 100	810	SP 60 - DN100 51 (51A) N	DN 100	20140435	SP 60 - DN100 65 (65A) N	DN 100	20140438
	Power Max 9x 110	873	SP 60 - DN100 51 (51A) N	DN 100	20140435	SP 60 - DN100 73 (73A) N	DN 100	20140439
	Power Max 9x 130 (115 Hi)	1008	SP 60 - DN100 65 (65A) N	DN 100	20140438	SP 60 - DN100 85 (85A) N	DN 100	20140440
10	Power Max 10x 50 P DEP	349	SP 35 - DN50 57 (57A) N	DN 50	20140416	SP 35 - DN50 93 (93A) N	DN 50	20140421
	Power Max 10x 50 P	450	SP 35 - DN50 75 (75A) N	DN 50	20140419	SP 35 - DN50 121 (121A) N	DN 50	20140424
	Power Max 10x 65 P	570	SP 40 - DN65 67 (67A) N	DN 65	20140425	SP 40 - DN65 111 (111A) N	DN 65	20140429
	Power Max 10x 80 P	680	SP 40 - DN65 75 (75A) N	DN 65	20140426	SP 40 - DN65 121 (121A) N	DN 65	20140432
	Power Max 10x 100	900	SP 60 - DN100 51 (51A) N	DN 100	20140435	SP 60 - DN100 73 (73A) N	DN 100	20140439
	Power Max 10x 110	970	SP 60 - DN100 59 (59A) N	DN 100	20140437	SP 60 - DN100 77 (77A) N	DN 100	20083248
	Power Max 10x 130 (115 Hi)	1120	SP 60 - DN100 73 (73A) N	DN 100	20140439	SP 60 - DN100 97 (97A) N	DN 100	20083249

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