# PRODUCT CATALOG

08 | **2024**

**Beretta**

# Beretta
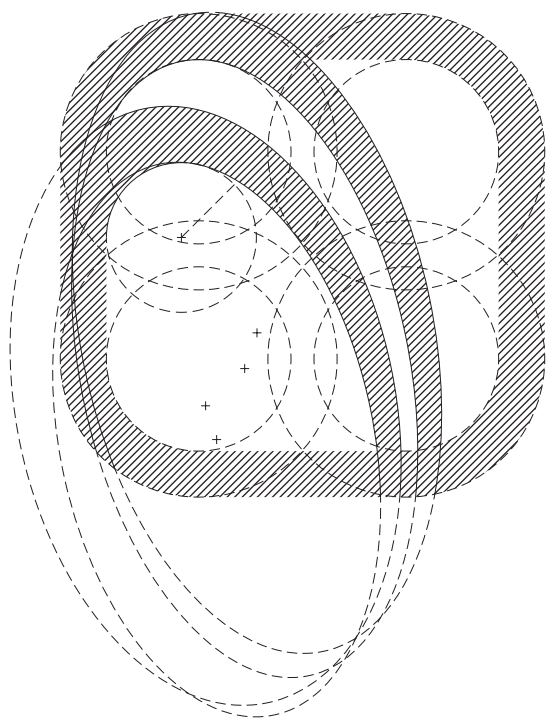
The experts in residential heating
for over fifty years.
Excellence and innovation for the
comfort of millions of homes,
in Italy and in the world.

# BERETTA
# TODAY

## BERETTA

The Specialists in residential heating for over fifty years: excellence and innovation, for the comfort within millions of homes. Today Beretta confirms its growing trend in the residential heating and faces new challenges with the same enthusiasm and the same commitment of the beginnings. Because the excellence in the products and in the supplied services remain Beretta's key values.

## EXCELLENCE

The great expertise gained over the years in the field of residential heating has made of Beretta one of the reference brands of its sector. Today, as in the beginnings, the pursuit of excellence in every activity and, more specifically, the constant attention to product and services represent Beretta core values.

## RESIDENTIAL HEATING

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

## EFFICIENCY

With a strong focus on residential heating, Beretta product portfolio concentrates increasingly on solutions that enhance energy efficiency through the intelligent integration of different energy sources.

## TECHNOLOGY

Beretta has always shown an exceptional ability to foresee change and respond to the resulting evolutions in demand. Two examples of many past cases: Beretta was the first Italian company to produce a wall-hung gas boiler and - with the IDRA METEO model, the first to produce a wall-hung boiler specifically designed for outdoor installation. A commitment to innovation which today increasingly takes an environmental slant, with a view to excellence and cutting-edge technology. Beretta solutions target improved energy efficiency and the reduction of emissions, both for the sustainability of the environment and to ensure all the comfort that millions of consumers are accustomed to demanding and receiving from Beretta products

## TERRITORY

Beretta customer-centred approach translates into a network of specialists: proximity, expertise, flexibility are Beretta key values. Beretta, after over fifty years since the production of its first wall-hung gas boiler, is nowadays a worldwide known brand in the field of home heating solutions, synonymous with technology and quality.Our products are sold through Subsidiaries, Sales Partners and OEM Customers in over 30 countries.

## ATTENTION TO ENVIRONMENT

Beretta commitment is concrete and aims at an increasingly sustainable future. For years, Beretta has been totally committed to a system logic which combines the intelligent use of several sustainable and renewable energy sources, in perfect harmony with the environment around us, for the home comfort of millions of consumers who use Beretta products every day.

BERETTA WORLDWIDE

BERETTA, **AFTER OVER FIFTY YEARS** SINCE THE PRODUCTION OF ITS FIRST WALL-HUNG GAS BOILER, IS **NOWADAYS A WORLDWIDE KNOWN BRAND IN THE FIELD OF HOME HEATING,** SYNONYMOUS WITH TECHNOLOGY AND QUALITY.

# CONSOLIDATED **KNOW-HOW**
## AT YOUR SERVICE

### AFTER-SALES SERVICE

BERETTA PUTS A GREAT DEAL OF EMPHASIS ON AFTER-SALES SERVICE, WITH A CENTRAL TECHNICAL SERVICE TEAM COMMITTED TO SUPPORTING OUR SUBSIDIARIES AND SALES PARTNERS TO PROVIDE LOCALLY A QUALIFIED SERVICE. WHEREVER YOU BUY A BERETTA PRODUCT IN THE WORLD, YOU ARE IN SAFE HANDS.

### PRE-SALES SERVICE

THE BERETTA PRE-SALES SERVICE TEAM, THANKS TO THE CONSOLIDATED KNOW-HOW, GIVES ADVICE ON THE WHOLE PORTFOLIO OF PRODUCTS TO OUR SALES PARTNERS AND SUBSIDIARIES IN THE WORLD, IN ORDER THEY CAN LOCALLY SUPPORT ENGINEERS, ARCHITECTS, SPECIFIERS AND DEVELOPERS IN CHOOSING THE BEST SOLUTION FOR THEIR PROJECTS.

### ORIGINAL SPARE-PARTS AND ACCESSORIES

FOR YOUR COMPLETE PEACE OF MIND, THE BERETTA ORIGINAL SPARE PARTS AND ACCESSORIES ARE AVAILABLE AT OUR SALES PARTNERS AND SUBSIDIARIES ALL OVER THE WORLD.

# TECHNICAL **TRAINING**

All Beretta Sales Partners and Subsidiaries in the world organize technical training courses, focusing on the need of the installer and engineer to become familiar with Beretta products and to enable quick and simple installation or repair.

Our technical training is structured to ensure you cover: the appliance range, installation, operation, wiring, flueing, benchmark, fault finding and commissioning.
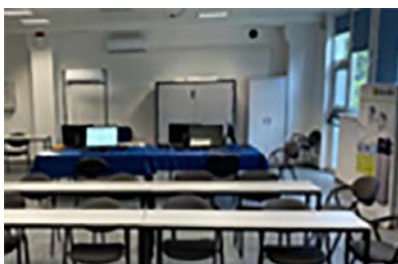



LECCO **- ITALY**

**ATENEO**

» OVER 400 SQ.M
DEDICATED
TO SPECIALISED
TRAINING




BUCAREST - **ROMANIA**




BARCELONA **- SPAIN**




TORUN - **POLAND**

# EXCLUSIVE X

## MORE PERFORMING AND SMART,
## MORE EXCLUSIVE

**NEW**

Beretta introduces EXCLUSIVE EVO X, the new condensing boiler which represents the top of the range of its offerings in terms of performance and efficiency. The "flagship" of Beretta, featuring a stylish and modern design with its full touch control panel, stands out for the wide modulation range 1:13, the condensing heat exchanger with a new adaptive combustion control, the excellent DHW comfort and a very quite operation. EXCLUSIVE EVO X forms a class A+ system in combination with the Hi, Comfort T100 and Hi, Comfort T300 smart controls, available as accessories, the latter allowing in addition the management of a hybrid system from remote.

HYDROGEN
**READY**
**20%**

FOR A
SUSTAINABLE
FUTURE

**1:13**
WIDE MODULATION
RANGE 1:13

HIGH
PERFORMANCE

ADVANCED
FULL TOUCH
INTERFACE

EXCELLENT DHW
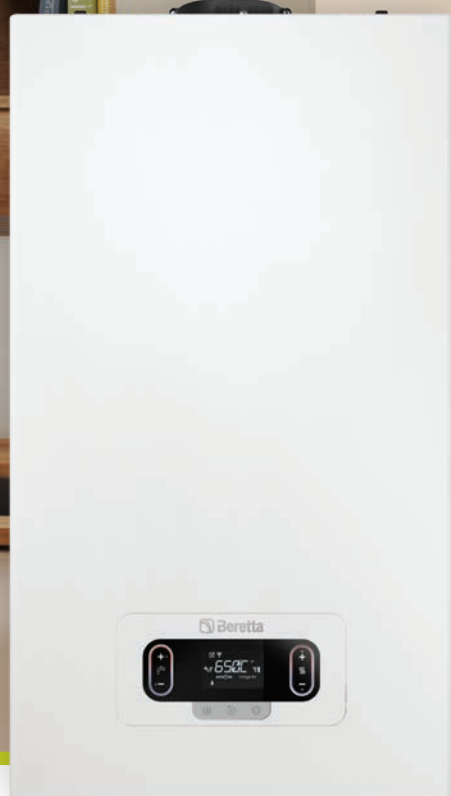COMFORT

VERY QUIET
OPERATION

STYLISH AND
COMPACT
DESIGN

IOT
READY

# MYNUTE EVO X

## INNOVATION AND EFFICIENCY,
### FOR A NEW STANDARD OF COMFORT

NEW

**archiproducts AWARDS 2023 WINNER** | **archiproducts® AWARDS 2023 WINNER SUSTAINABILITY**

MYNUTE EVO X won the Archiproducts Awards 2023, by gaining appreciation for its project concept and design, and the Archiproducts Awards 2023 SUSTAINABILITY.

MYNUTE EVO X is the laytest evolution of MYNUTE, one of the most representative wall-hung boiler families of Beretta in terms of reliability and performance. Common denominator of the entire range is the technological research aimed at energy saving, while offering high comfort and efficiency, in the respect of the environment. Its aesthetic lines, conveying a modern and advanced character, together with the compact dimensions, allow MYNUTE EVO X to harmonize easily in different residential settings, both in replacement and in the new building.

HYDROGEN **READY** 20%

FOR A SUSTAINABLE FUTURE

**HIGH PERFORMANCE** | **HIGH DHW COMFORT** | **NEW DIGITAL TOUCHPAD INTERFACE** | **QUIET OPERATION** | **COMPACT DESIGN** | **EASY INSTALLATION AND MAINTENANCE** | **IOT READY**

# CIAO X

## THE COMFORT
## YOU DESERVE

CIAO X is the new range of Beretta condensing boilers that expertly combines technology and respect for the environment, to offer you the comfort you desire. Touchscreen interface, stainless steel core, easy use and installation make CIAO X the perfect choice both for new buildings and replacement.

HYDROGEN **READY** 20%

FOR A SUSTAINABLE FUTURE
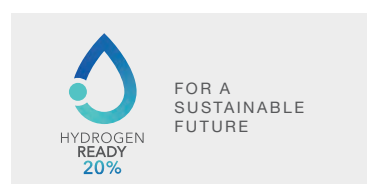
**NEW DIGITAL TOUCHPAD INTERFACE**

**HIGH EFFICIENCY**

**QUICK AND STABLE HOT WATER**

**STAINLESS STEEL HEAT EXCHANGER**

**COMPACT DESIGN**

**LOW NOISE OPERATION**

# EXCLUSIVE AGILE

## AIR-TO-WATER WALL-HUNG SPLIT HEAT PUMP WITH R32 REFRIGERANT

**EXCLUSIVE AGILE split heat pumps are designed to provide heating, cooling and domestic hot water.**

With a range of ten power sizes, they offer a wide choice of single-phase models from 4 to 16 kW and three-phase models from 12 to 16 kW. Thanks to the compressor featuring DC Inverter technology, they offer a heating temperature up to 65°C. On-board control as standard allows easy management of the various functions. They are designed to be additionally used within a hybrid system, in combination with a gas heating source.

The new EXCLUSIVE AGILE range uses the refrigerant gas R32, with low environmental impact, in line with European targets to reduce emissions of $CO_2$.
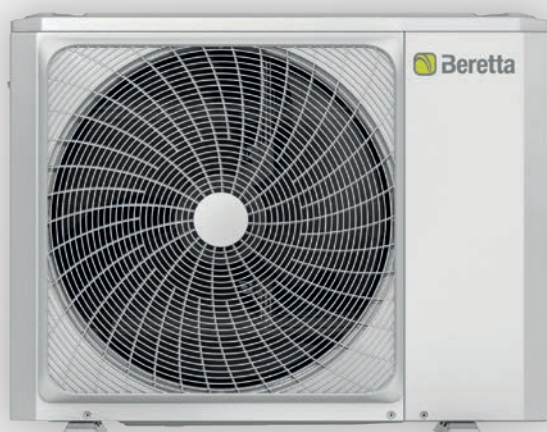
COMFORT FOR ALL SEASONS

HIGH EFFICIENCY

LOW NOISE OPERATION

COMPACT DIMENTIONS

R32 REFRIGERANT GAS

WIDE RANGE

HYBRID READY

INDEX

# INDEX

# HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

- **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, heat pump and solar thermal unit
- **REC10MH, 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 Heat Pump with solar thermal unit connectable to a double-coil heater
  KIT B (HYBRID MS) - for combined boiler and Heat Pump 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**

A⁺ system

## 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 - HEAT PUMP** | | | | |
| 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 - HEAT PUMP - SOLAR** | | | | |
| 20134957 | HYBRID DS 1 DIR - DHW (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬡ ☀ | 1 DIRECT |
| 20134958 | HYBRID DS 2 DIR - DHW (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬡ ☀ | 2 DIRECT |
| 20134959 | HYBRID DS 1HT/1LT - DHW (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬡ ☀ | 1HT + 1LT |
| **KIT B (HYBRID MS) - FOR MS HEATER CONNECTION AND DHW MANAGEMENT WITH COMBINED BOILER AND HEAT PUMP** | | | | |
| 20134960 | HYBRID MS 1 DIR - DHW (COMBI-HEAT PUMP) | hot / cold | ⚡ ⬡ - | 1 DIRECT |
| 20134961 | HYBRID MS 2 DIR - DHW (COMBI-HEAT PUMP) | hot / cold | ⚡ ⬡ - | 2 DIRECT |
| 20134962 | HYBRID MS 1HT/1LT - DHW (COMBI-HEAT PUMP) | 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 the boiler, solar collector, heat pump, storage cylinder or inertial storage tank: these must be chosen from the codes indicated in the combination tables.
(A) Code consisting of 1 hydraulic module for direct 1-zone hybrid distribution (code 20165227) and 1 outdoor temperature sensor kit with connector (code 1220559). For hybrid system management command (not included in the kit), refer to the "Management commands for hybrid systems" table. Compatible with heat pump up to model 012/012T only. Check whether there is a bypass valve (code 20182807). Add one if necessary.
(1) Comfort management with boiler and heat pump.

# HYBRID SYSTEMS - COMBINED BOILER SELECTION TABLES

⊙ **Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

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SYSTEM COMPLEMENTARY ITEMS

## Management commands for hybrid systems

| CODE | MODEL |
|---|---|
| 20193922 | REC10MH hybrid system management command [1] |
| 20205322 | T300 Hi, Comfort Management control |

(1) The REC10MH panel is used to manage the operation of the HYDRO UNIT M heat pump in a hybrid system.
(2) The T300 panel is used to manage the operation of the EXCLUSIVE EVO X and MYNUTE EVO X boilers in a hybrid system.

## Box for Hybrid kit

| CODE | MODEL | DIMENSIONS H x L x D (mm) |
|---|---|---|
| 20130808 | Box (also for built-in installation) for CONNECT HYBRID [2] | 797 x 400 x 160 |
| 20131752 | Cock kit for CONNECT HYBRID | - |

(1) Paintable box.

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

| CODICE MTN [1] | MODEL | GAS | 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 ▥ | XL |
|---|---|---|---|---|---|---|---|
| **INSTANTANEOUS COMBINED** | | | | | | | |
| 20206141 | EXCLUSIVE EVO X 25C | MTN/GPL[1] | 740 x 420 x 275 | 1,90 - 20,00 | 14,3 | A | A |
| 20206142 | EXCLUSIVE EVO X 30C | MTN/GPL[1] | 740 x 420 x 275 | 2,70 - 25,00 | 17,2 | A | A |
| 20206143 | EXCLUSIVE EVO X 35C | MTN/GPL[1] | 740 x 420 x 275 | 2,70 - 32,00 | 20,0 | A | A |
| 20205312 | MYNUTE EVO X 25 C | MTN/GPL[1] | 740 x 420 x 275 | 2,50 - 20,00 | 14,3 | A | A |
| 20205313 | MYNUTE EVO X 30 C | MTN/GPL[1] | 740 x 420 x 275 | 3,00 - 25,00 | 17,2 | A | A |
| 20205314 | MYNUTE EVO X 35 C | MTN/GPL[1] | 740 x 420 x 275 | 3,50 - 30,00 | 20,0 | A | A |
| 20197875 | CIAO X 25C | MTN | 740 x 420 x 275 | 3,1-20,0/3,1-25,0 | 14,3 | A | A |
| 20197877 | CIAO X 25C | GPL | 740 x 420 x 275 | 5,0-20,0/5,0-25,0 | 14,3 | A | A |
| 20197876 | CIAO X 30C | MTN | 740 x 420 x 275 | 3,95-25,0/3,95-30,0 | 17,2 | A | A |

(1) Boilers in which gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings.

■ ≫ **NEW**

# HYBRID SYSTEMS - HEAT PUMP AND SOLAR COLLECTOR SELECTION TABLE

Ⓝ Beretta

| | Specific accessories for condensing boilers | |
|---|---|---|

| CODE | MODEL | DIMENSIONS H x L x D (mm) |
|---|---|---|
| 1103289 | Built-in BOX GREEN with door [1] | 1223 x 654 x 255 (+26) |
| 20132005 | Wall-mounted hydraulic connections and gas tap kit for combi boilers | - |
| 20133516 | Wall-mounted hydraulic connections and heating, gas and DHW taps kit for combi boilers | - |
| 20196582 | Rigid ramps for EDILBOX - 25 kW [2] | - |
| 20196580 | Rigid ramps for BOX GREEN - 25 kW [2] | - |
| 20196581 | Rigid ramps for BOX GREEN - 30 kW [2] | - |
| 20182807 | Adjustable bypass valve | - |
| 20191518 | Compact polyphosphate doser kit | - |
| 20191517 | Compact magnetic filter | - |

(1) The front of the BOX (door) protrudes 26 mm from the recessed frame.
(2) The 'RIGID RAMPS' kits must be used in conjunction with the accessories Compact magnetic filter kit cod. 20191517 and Polyphosphate dosing compact kit cod. 20191518.

## BOILER ACCESSORIES

### Accessories for EXCLUSIVE EVO-X boiler

| CODE | DESCRIPTION |
|---|---|
| **IN-WALL INSTALLATION** | |
| 20161604 | In-wall installation unit [1] |
| 20191887 | Crossbar for in-wall installation |
| **MECHANICAL ACCESSORIES** | |
| 20190324 | Air Filter [2] |
| 20191519 | Hydraulic low fittings cover |
| 20209808 | Dummy boiler EXCLUSIVE EVO X 25 C |
| **HYDRAULIC ACCESSORIES** | |
| 20191518 | Compact polyphosphate doser kit |
| 20191517 | Compact magnetic filter |
| 20192808 | Board BE09 with double multi-function relay [3] |
| 20097192 | Condensate booster pump kit |
| 20210993 | High residual pump 7,5 m |
| 20035644 | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | Well probe for remote heater (for heating only version) |
| 20133516 | Connection kit with heating system, domestic water and gas cocks (for combi models) |
| 20133517 | Connection kit with heating system and gas cocks (for heating only models) |
| 20132005 | Connection kit with domestic water and gas cocks (for combi models) |
| 20133386 | Connection kit with gas cock (for heating only models) |
| 20192806 | Flexible fittings for boiler replacement |
| **COMPLEMENTARY ACCESSORIES** | |
| 20191888 | Antifreeze heaters -15 °C [4] |
| 1220559 | External probe kit |
| 1220639 | Limit thermostat for low temperature installations |

HYBRID SYSTEMS

HEAT PUMPS

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SOLAR THERMAL UNIT AND CYLINDERS

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SYSTEM COMPLEMENTARY ITEMS

| CODE | DESCRIPTION |
|---|---|
| **SPECIFIC FLUES** | |
| 20203534 | Split connection system kit Ø80 mm |
| 20164664 | Ø80 mm clapet kit for pressurized collective flues |
| 20164662 | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 | Wall-hung collector Ø60/100 mm |
| 20129176 | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 | Vertical collector Ø60/100 mm |
| 20129174 | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 | Adaptor kit B23 Ø80 mm |
| 20129768 | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |
| **ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS** | |
| 20168672 | Solar interface kit [7] |
| 20132795 | First zone management kit (MIX or DIR zone) [7][8] |
| 20132796 | Additional zone management kit (MIX or DIR zone) [7][8][9] |
| **DISTRIBUTION MODULES WITHOUT SEPARATOR** | |
| 20130801 | CONNECT HYBRID 1D MODULE [10][11] |
| 20130802 | CONNECT HYBRID 2D MODULE [10][11] |
| 20130803 | CONNECT HYBRID 1D+1M MODULE [10][12] |
| 20130808 | IN- WALL INSTALLATION BOX [13] |
| 20131752 | Taps kit for BAG3 HYBRID system side and heat pump |

## Accessories for MYNUTE EVO-X boiler

| CODE | DESCRIPTION |
|---|---|
| **IN-WALL INSTALLATION** | |
| 20161604 | In-wall installation unit [1] |
| 20191887 | Crossbar for in-wall installation |
| **MECHANICAL ACCESSORIES** | |
| 20190324 | Air Filter [2] |
| 20191519 | Hydraulic low fittings cover |
| 20209805 | Dummy boiler MYNUTE EVO X |
| **HYDRAULIC ACCESSORIES** | |
| 20191518 | Compact polyphosphate doser kit |
| 20191517 | Compact magnetic filter |
| 20192808 | Board BE09 with double multi-function relay [3] |
| 20097192 | Condensate booster pump kit |
| 20210993 | High residual pump 7,5 m |
| 20035644 | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | Well probe for remote heater (for heating only version) |
| 20133516 | Connection kit with heating system, domestic water and gas cocks (for combi models) |
| 20133517 | Connection kit with heating system and gas cocks (for heating only models) |
| 20132005 | Connection kit with domestic water and gas cocks (for combi models) |
| 20133386 | Connection kit with gas cock (for heating only models) |
| 20192806 | Flexible fittings for boiler replacement |
| **COMPLEMENTARY ACCESSORIES** | |
| 20191888 | Antifreeze heaters -15 °C [4] |
| 1220559 | External probe kit |
| 1220639 | Limit thermostat for low temperature installations |

| CODE | DESCRIPTION |
|---|---|
| **SPECIFIC FLUES** | |
| 20203534 | Split connection system kit Ø80 mm |
| 20164664 | Ø80 mm clapet kit for pressurized collective flues |
| 20164662 | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 | Wall-hung collector Ø60/100 mm |
| 20129176 | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 | Vertical collector Ø60/100 mm |
| 20129174 | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 | Adaptor kit B23 Ø80 mm |
| 20129768 | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |
| **ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS** | |
| 20168672 | Solar interface kit [7] |
| 20132795 | First zone management kit (MIX or DIR zone) [7][8] |
| 20132796 | Additional zone management kit (MIX or DIR zone) [7][8][9] |
| **DISTRIBUTION MODULES WITHOUT SEPARATOR** | |
| 2013080 | CONNECT HYBRID 1D MODULE [10][11] |
| 20130802 | CONNECT HYBRID 2D MODULE [10][11] |
| 20130803 | CONNECT HYBRID 1D+1M MODULE [10][12] |
| 20130808 | IN-WALL INSTALLATION BOX [13] |
| 20131752 | Taps kit for BAG3 HYBRID system side and heat pump |

## Accessories for CIAO X boiler

| CODE | DESCRIPTION |
|---|---|
| **Hydraulic accessories** | |
| 20191518 | Compact polyphosphate doser kit |
| 20191517 | Compact magnetic filter |
| 20189142 | High residual pump 7M |
| 20192808 | Board BE09 with double multi-function relay [3] |
| 20097192 | Condensate booster pump kit |
| 20035644 | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | Well probe for remote heater (for heating only version) |
| 20133516 | Connection kit with heating system, domestic water and gas cocks (for combi models) |
| 20133517 | Connection kit with heating system and gas cocks (for heating only models) |
| 20132005 | Connection kit with domestic water and gas cocks (for combi models) |
| 20133386 | Connection kit with gas cock (for heating only models) |
| 20192806 | Flexible fittings for boiler replacement |
| **Mechanical accessories** | |
| 20190324 | Air Filter [2] |
| 20191519 | Hydraulic low fittings cover |
| 20191884 | Dummy boiler Ciao X 25C |
| 20191891 | Wall mounting frame 1 pc. |
| 20191892 | Wall mounting frame 5 pcs. |
| **Complementary accessories** | |
| 20191888 | Antifreeze heaters -15 °C [4] |
| 1220559 | External probe kit |
| 1220639 | Limit thermostat for low temperature installations |
| 20191520 | Building site kit with analogue hydrometer [14] |
| **Flues** | |
| 20164664 | Ø80 mm clapet kit for pressurized collective flues |

| CODE | DESCRIPTION |
|------|-------------|
| 20164662 | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 | Wall-hung collector Ø60/100 mm |
| 20129176 | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 | Vertical collector Ø60/100 mm |
| 20129174 | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 | Adaptor kit B23 Ø80 mm |
| 20129768 | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |
| 20129765 | Fixed split system kit Ø80 mm |
| 20194628 | Ø60/100 mm PP/PPu - Short flue terminal kit [15] |

(1) Unit supplied with door.
(2) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(3) Ideal board for managing additional circulator, alarm remote kit and zone valve.
(4) The antifreeze heater kit protects the DHW circuit from freezing where temperatures fall below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible).
(5) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(6)Code necessary for horizontal exhaust with flue system Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(7) Pair with Hi, Comfort T300.
(8) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary if the Connect Hybrid kit is purchased.
(9) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.
(10) Supplied without built-in Box.
(11) Equipped as standard with limit thermostat for low temperature systems.
(12) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(13) Recessed wall box in galvanised sheet metal (can be painted white). Mandatory with CONNECT HYBRID.
(14) Code necessary for horizontal exhaust with flue system Ø60/100 mm.
(15) Minimum order quantity 50 pcs.

# HYBRID SYSTEMS - HEAT PUMP AND SOLAR COLLECTOR SELECTION TABLE

## 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 | 35°C |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20203411 | HYDRO UNIT M 004 | 718 x 1295 x 426 | 4,20 / 4,50 | A++ | A+++ |
| 20203413 | HYDRO UNIT M 006 | 718 x 1295 x 426 | 6,35 / 6,50 | A++ | A+++ |
| 20203414 | HYDRO UNIT M 008 | 865 x 1385 x 523 | 8,40 / 8,30 | A++ | A+++ |
| 20203416 | HYDRO UNIT M 010 | 865 x 1385 x 523 | 10,00 / 9,90 | A++ | A+++ |
| 20203656 | HYDRO UNIT M 012 | 865 x 1385 x 523 | 12,10 / 12,00 | A++ | A+++ |
| 20203659 | HYDRO UNIT M 014 | 865 x 1385 x 523 | 14,50 / 13,50 | A++ | A+++ |
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20203672 | HYDRO UNIT M 012T | 865 x 1385 x 523 | 12,10 / 12,00 | A++ | A+++ |
| 20203674 | HYDRO UNIT M 014T | 865 x 1385 x 523 | 14,50 / 13,50 | 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 that can be used for stand-alone full electric installation with commands supplied as standard, and for hybrid systems in combination with the REC10MH command (refer to the specific section).

## Solar collectors (for kit A only)

| CODE | DESCRIPTION | MODEL |
|---|---|---|
| 20201328 | Sealed solar collector - 2,5 m$^2$ | SCF-25/4B A |
| 20201335 | Sealed solar collector - 2 m$^2$ | SCF-20/4B A |

For bracket codes and glycol refer to the solar thermal section.

## Double-coil heaters (compatible with kit A)

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS |
|---|---|---|---|---|---|
| **DOUBLE SERPENTINE BOILERS** | | | | | |
| 20117881 | IDRA DS 200 [1] | 1338 x 604 | 208 double coil | 62 | B |
| 20117882 | IDRA DS 300 [1] | 1838 x 604 | 301 double coil | 69 | B |

(1) Heaters for Hybrid DS Systems. When connected in Hybrid MS Systems, the two coils must be connected in series.

# HYBRID SYSTEMS - HEATER AND INERTIAL BUFFER TANK SELECTION TABLES

**Beretta**

## 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] | 1615 x 600 | 263 single-coil | 85 | C |
| 20204198 | IDRA C-HP 150 MS | 1138 x 604 | 170 single-coil | 55 | B |
| 20204200 | IDRA C-HP 200 MS | 1354 x 604 | 210 single-coil | 58 | B |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single-coil | 68 | B |

(2) Heaters for Hybrid MS Systems.

## Accessories for IDRA HP 300 single-coil storage tanks (compatible with kit B)

| CODE | DESCRIPTION |
|------|-------------|
| 4383504 | Solar heat exchanger 0,8 m$^2$ for IDRA HP 300 [1] |
| 20203248 | Solar heat exchanger 0,8 m$^2$ for C-HP 150-300 |
| 4383270 | Single-phase resistance kit 1,5 kW 1 "1/2 |

(1) The accessory must be ordered together with the base unit (if the latter is not available, the accessory cannot be ordered). It is supplied uninstalled.

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

| CODE | DESCRIPTION |
|------|-------------|
| 20104496 | 25-litre cylindrical technical tank kii [1] |
| 20171999 | STOR H 50 - 50-litre inertial buffer tank [1] |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit [1] [2] |

(1) Provide at least 3,5 litres per kW of heat pump cooling output.
(2) Code with limited availability.

## Accessories for Hybrid Systems (compatible with Kit C)

| CODE | DESCRIPTION |
|------|-------------|
| 20165741 | Photovoltaic input board kit [1] |

(1) To be used only if there is no diverting valve kit code 20131755 within the packages.

For info about all the accessories available, refer to the specific section.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

**🗇 Beretta**

## KIT A COMPOSITION (HYBRID DS) - for management (*) of DS heater and DHW with combined boiler - Heat Pump - solar

| CODE | DESCRIPTION | MANAGEMENT COMFORT | MANAGEMENT DHW | MANAGEMENT ZONES |
|---|---|---|---|---|
| 20134957 | HYBRID DS 1 DIR - ACS (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬤ ☼ | 1 DIRECT |
| **CONSISTING OF:** | | | | |
| 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. |

| CODE | DESCRIPTION | MANAGEMENT COMFORT | MANAGEMENT DHW | MANAGEMENT ZONES |
|---|---|---|---|---|
| 20134958 | HYBRID DS 2 DIR - DHW (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬤ ☼ | 2 DIRECT |
| **CONSISTING OF:** | | | | |
| 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. |

| CODE | DESCRIPTION | MANAGEMENT COMFORT | MANAGEMENT DHW | MANAGEMENT ZONES |
|---|---|---|---|---|
| 20134959 | HYBRID DS 1HT/1LT - DHW (COMBI-HEAT PUMP-SOLAR) | hot / cold | ⚡ ⬤ ☼ | 1HT + 1LT |
| **CONSISTING OF:** | | | | |
| 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.
(*) Refer to the "Command panels for hybrid systems" table for the system command panel.

Hybrid Combined Systems
# HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

HEAT PUMPS

WALL HUNG 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 REC10MH hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.



Basic layout purely for illustrative purposes

## Key:
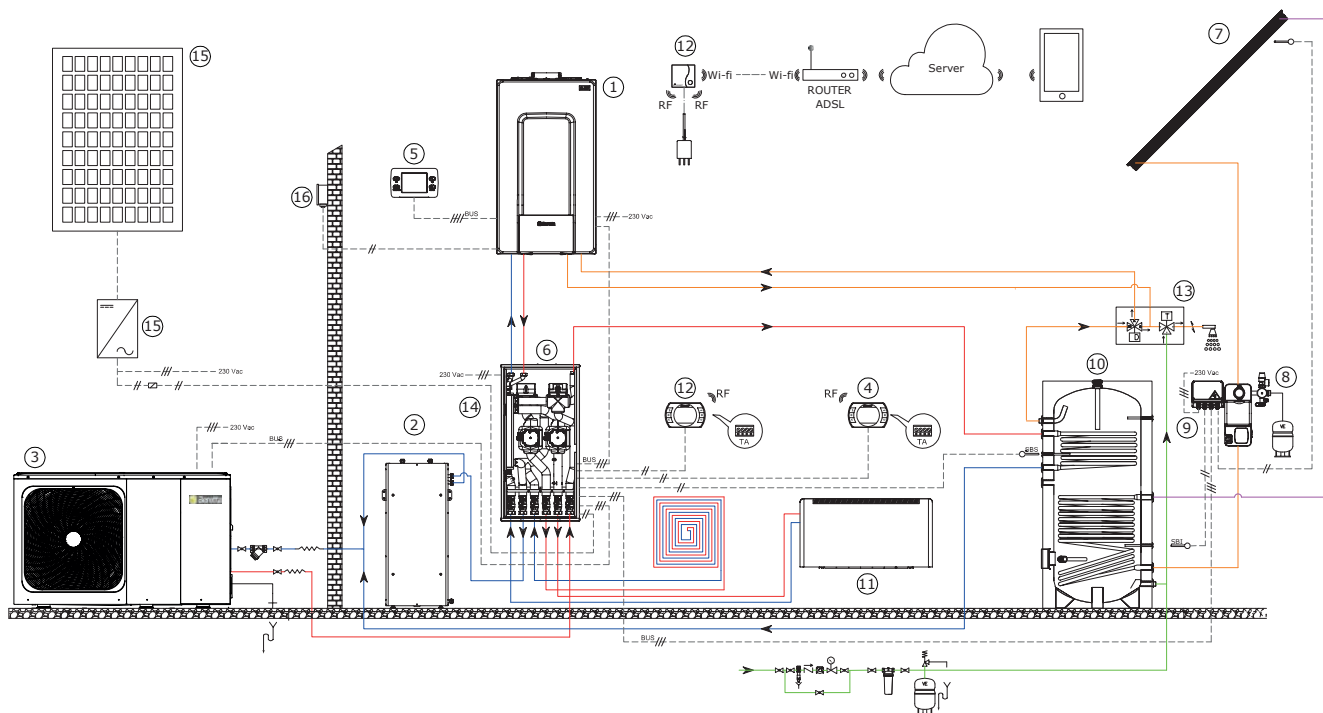
**1** Wall hung boiler [1]
**2** STOR H 50 - 50-litre inertial buffer tank
**3** Heat pump [1]
**4** Hi, Comfort T100 Control
**5** REC10MH or T300 hybrid systems management control [2]
**6** Kit A - (Hybrid DS), built into the BOX and with cock kit (optional)
**7** Solar collector
**8** Return-only 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** Wi-fi module
**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) For more info about combining boilers and heat pumps, refer to the tables in the "GUIDE TO SYSTEM CONFIGURATION" page 58.
(2) The hybrid system management control T300 code 20205322 is necessary to create a wall-mounted hybrid system with the Mynute EVO X and EXCLUSIVE EVO X boilers
Only for boilers with REC10MH device already installed on the boiler. If it is installed on the wall, the control on the boiler must be disconnected and remotely controlled using a specific accessory. For all configurations, refer to the applicable design and installation standards and to the product's technical manuals.

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

| CODE | DESCRIPTION | MANAGEMENT COMFORT | MANAGEMENT DHW | | | MANAGEMENT ZONES |
|---|---|---|---|---|---|---|
| 20134960 | HYBRID MS 1 DIR - DHW (COMBI-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 1 DIRECT |
| **CONSISTING OF:** | | | | | | |
| 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. |
| | | | | | | |
| 20134961 | HYBRID MS 2 DIR - DHW (COMBI-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 2 DIRECT |
| **CONSISTING OF:** | | | | | | |
| 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. |
| | | | | | | |
| 20134962 | HYBRID MS 1HT/1LT - DHW (COMBI-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 1AT + 1BT |
| **CONSISTING OF:** | | | | | | |
| 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. |

⚡ 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 the boiler, the hybrid system command panel, the heat pump, storage cylinder or inertial storage tank: these must be chosen from the codes indicated in the combination tables.
(*) Refer to the "Command panels for hybrid systems" table for the system command panel.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid Combined Systems
# HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

**Beretta**

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

The system is controlled by the REC10MH hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.



Basic layout purely for illustrative purposes

## Key:
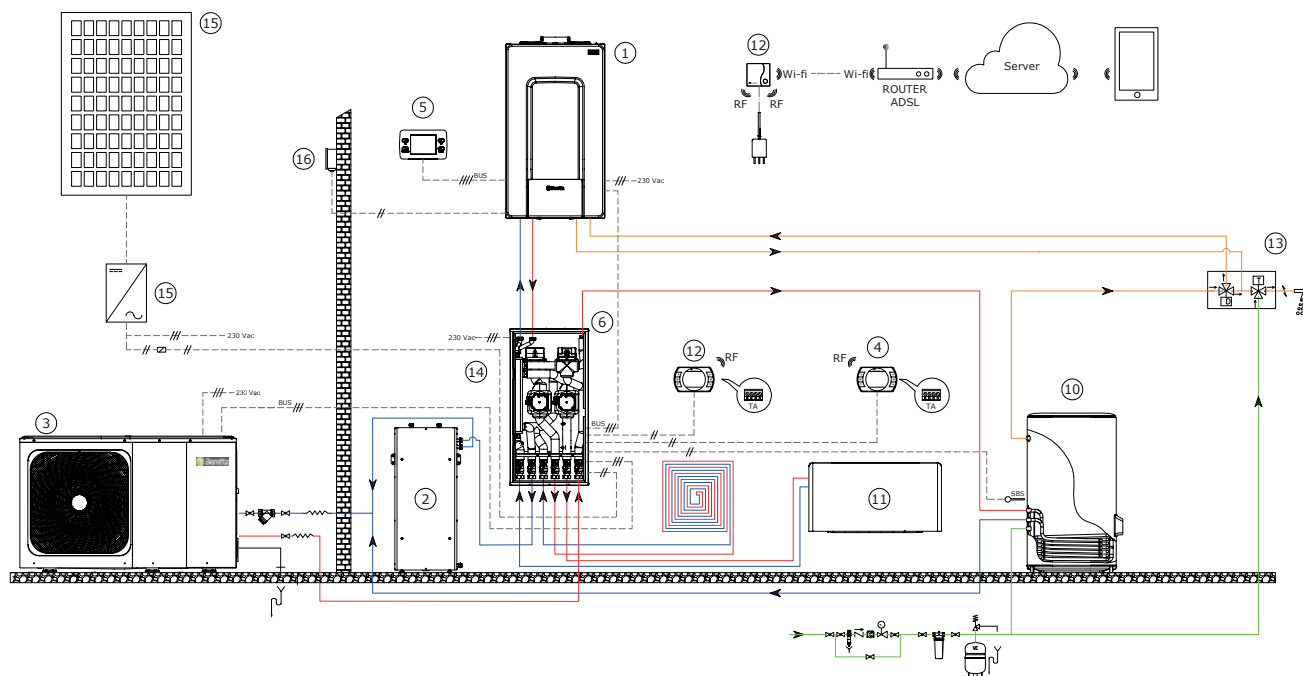
**1**  Wall hung boiler [1]
**2**  STOR H 50 - 50-litre inertial buffer tank
**3**  Heat pump [1]
**4**  Hi, Comfort T100 Control
**5**  REC10MH or T300 hybrid systems management control [2]
**6**  Kit B - (Hybrid MS), built into the BOX and with cock kit (optional)
**10**  Single-coil domestic water heater
**11**  Tivano Fan coil
**12**  Wi-fi module
**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) For more info about combining boilers and heat pumps, refer to the tables in the "GUIDE TO SYSTEM CONFIGURATION" page 58.
(2) The hybrid system management control T300 code 20205322 is necessary to create a wall-mounted hybrid system with the Mynute EVO X and EXCLUSIVE EVO X boilers
Only for boilers with REC10MH device already installed on the boiler. If it is installed on the wall, the control on the boiler must be disconnected and remotely controlled using a specific accessory. For all configurations, refer to the applicable design and installation standards and to the product's technical manuals

## 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:** | | | | |
| 20130801 | CONNECT HYBRID 1D MODULE | | | 1 pc. |
| 1220559 | OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR | | | 1 pc. |
| 20134964 | HYBRID 2 DIR COMBI - WITHOUT HEATER | hot / cold | - ⬡ - | 2 DIRECT |
| **CONSISTING OF:** | | | | |
| 20130802 | CONNECT HYBRID 2D MODULE | | | 1 pc. |
| 1220559 | OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR | | | 1 pc. |
| 20134965 | HYBRID 1HT/1LT COMBI - WITHOUT HEATER | hot / cold | - ⬡ - | 1HT + 1LT |
| **CONSISTING OF:** | | | | |
| 20130803 | CONNECT HYBRID HT/LT MODULE | | | 1 pc. |
| 1220559 | OUTDOOR TEMPERATURE PROBE KIT WITH CONNECTOR | | | 1 pc. |

⬡ Combined condensing boiler.

o 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 the boiler, the hybrid system command panel, the heat pump, storage cylinder or inertial storage tank: these must be chosen from the codes indicated in the combination tables.

For input of signal from the photovoltaic system, it is necessary to use the optional kit code 20165741.

(*) Refer to the "Command panels for hybrid systems" table for the system command panel.

# HYBRID SYSTEMS FOR HYBRID READY COMBINED BOILER

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

he system is controlled by the REC10MH hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.



Basic layout purely for illustrative purposes

## Key:
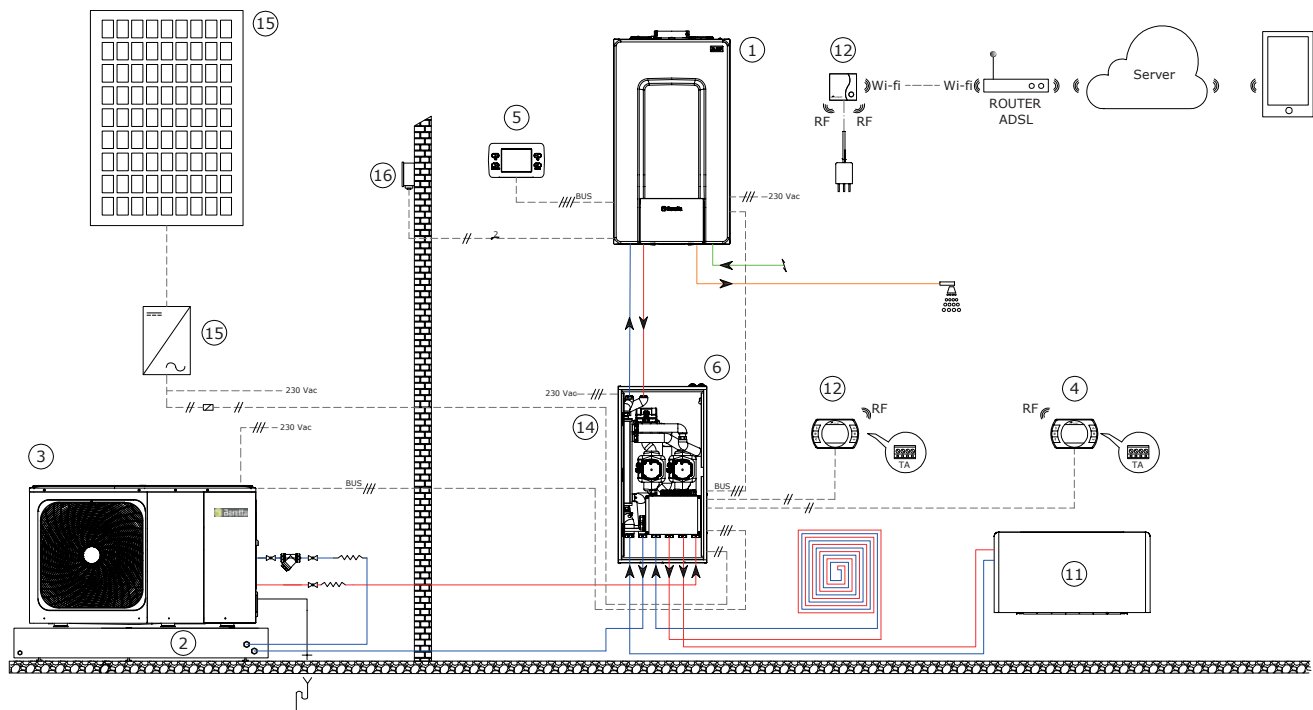
**1**   Wall hung boiler [1]
**2**   STOR H 50 - 50-litre inertial buffer tank
**3**   Heat pump [1]
**4**   Hi, Comfort T100 Control
**5**   REC10MH hybrid systems management control [2]
**6**   Kit C - Hybrid WITHOUT HEATER, built into the BOX and with cock kit (optional))
**11**   Tivano Fan coil
**12**   Wi-fi module
**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) For more info about combining boilers and heat pumps, refer to the tables in the "GUIDE TO SYSTEM CONFIGURATION" page 58.
(2) The hybrid system management control T300 code 20205322 is necessary to create a wall-mounted hybrid system with the Mynute EVO X and EXCLUSIVE EVO X boilers
Only for boilers with REC10MH device already installed on the boiler. If it is installed on the wall, the control on the boiler must be disconnected and remotely controlled using a specific accessory. For all configurations, refer to the applicable design and installation standards and to the product's technical manuals

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- **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, heat pump and solar thermal unit
- **REC10MH, 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 Heat Pump and heating-only boiler with solar connectable to a double-coil heater
  KIT E - (HYBRID DS) - for heating-only boiler and Heat Pump 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 HEAT PUMP** | | | | |
| 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 HEAT PUMP** | | | | |
| 20134969 | HYBRID DS 1 DIR - DHW (HEATING ONLY-HEAT PUMP) | hot / cold | ⚡ ◌ - | 1 DIRECT |
| 20134970 | HYBRID DS 2 DIR - DHW (HEATING ONLY-HEAT PUMP) | hot / cold | ⚡ ◌ - | 2 DIRECT |
| 20134971 | HYBRID DS 1HT/1LT - DHW (HEATING ONLY-HEAT PUMP) | 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 1 hydraulic module for direct 1-zone hybrid distribution (code 20165227), 1 outdoor temperature sensor kit with connector (code 1220559). For hybrid system management command (not included in the kit), refer to the "Management commands for hybrid systems" table.
Compatible with Heat Pump only up to model 012/012T. Check the presence of the bypass valve (cod. 20182807) and add it if necessary.
(1) Comfort management with boiler and heat pump.

# HYBRID SYSTEMS - HEATING-ONLY BOILER SELECTION TABLE

## Management commands for hybrid systems

| CODE | MODEL |
|---|---|
| 20193922 | REC10MH hybrid system management command [1] |
| 20205322 | T300 Hi, Comfort Management control |

(1) The REC10MH panel is used to manage the operation of the HYDRO UNIT M heat pump in a hybrid system.
(2) The T300 panel is used to manage the operation of the EXCLUSIVE EVO X and MYNUTE EVO X boilers in a hybrid system.

## Box for Hybrid kit

| CODE | MODEL | DIMENSIONS H x L x D (mm) |
|---|---|---|
| 20130808 | Box (also for built-in installation) for CONNECT HYBRID [2] | 797 x 400 x 160 |
| 20131752 | Cock kit for CONNECT HYBRID | - |

(1) Paintable box.

## Heating-only condensing boilers (compatible with under-boiler kit and kits D and E)

| CODICE MTN [1] | MODEL | GAS | 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 ▥ | XL |
|---|---|---|---|---|---|---|---|
| **HEATING ONLY** | | | | | | | |
| 20206144 | EXCLUSIVE EVO X 25R | MTN/GPL[1] | 740 x 420 x 275 | 1,9 - 20,0 / 1,9 - 25,0 | - | A | - |
| 20206145 | EXCLUSIVE EVO X 35R | MTN/GPL[1] | 740 x 420 x 275 | 2,7 - 32,0 / 2,7 - 34,9 | - | A | - |
| 20205315 | MYNUTE EVO X 20 R | MTN/GPL[1] | 740 x 420 x 275 | 2,5 - 20,0 / 2,5 - 20,0 | - | A | - |
| 20205316 | MYNUTE EVO X 30 R | MTN/GPL[1] | 740 x 420 x 275 | 3,5 - 30,0 / 3,5 - 34,9 | - | A | - |
| 20187766 | CIAO X 15 R | MTN | 740 x 420 x 275 | 3,1-15,0 / 3,1-25,0 | - | A | - |
| 20187767 | CIAO X 25R | MTN | 740 x 420 x 275 | 3,1-20,0 / 3,1-25,0 | - | A | - |

(1) In this models boilers gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HYBRID SYSTEMS - HEAT PUMP AND SOLAR COLLECTOR SELECTION TABLE

## 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 | CLASS 35°C |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20203411 | HYDRO UNIT M 004 | 718 x 1295 x 426 | 4,20 / 4,50 | A⁺⁺ | A⁺⁺⁺ |
| 20203413 | HYDRO UNIT M 006 | 718 x 1295 x 426 | 6,35 / 6,50 | A⁺⁺ | A⁺⁺⁺ |
| 20203414 | HYDRO UNIT M 008 | 865 x 1385 x 523 | 8,40 / 8,30 | A⁺⁺ | A⁺⁺⁺ |
| 20203416 | HYDRO UNIT M 010 | 865 x 1385 x 523 | 10,00 / 9,90 | A⁺⁺ | A⁺⁺⁺ |
| 20203656 | HYDRO UNIT M 012 | 865 x 1385 x 523 | 12,10 / 12,00 | A⁺⁺ | A⁺⁺⁺ |
| 20203659 | HYDRO UNIT M 014 | 865 x 1385 x 523 | 14,50 / 13,50 | A⁺⁺ | A⁺⁺⁺ |
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20203672 | HYDRO UNIT M 012T | 865 x 1385 x 523 | 12,10 / 12,00 | A⁺⁺ | A⁺⁺⁺ |
| 20203674 | HYDRO UNIT M 014T | 865 x 1385 x 523 | 14,50 / 13,50 | 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 that can be used for stand-alone full electric installation with commands supplied as standard, and for hybrid systems in combination with the REC10MH command (refer to the specific section).

## Solar collectors (for kit A only)

| CODE | DESCRIPTION | MODEL |
|---|---|---|
| 20201328 | Sealed solar collector - 2,5 m² | SCF-25/4B A |
| 20201335 | Sealed solar collector - 2 m² | SCF-20/4B A |

For bracket codes and glycol refer to the solar thermal section.

# HYBRID SYSTEMS - HEATER AND INERTIAL BUFFER TANK SELECTION TABLES

**Beretta**

## Double-coil boilers (compatible with under-boiler kits 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 | 1338 x 604 | 208 double coil | 62 | B |
| 20117882 | IDRA DS 300 | 1838 x 604 | 301 double coil | 69 | B |

## Single-coil heaters (compatible with kit E)

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS |
|------|-------|------------------------|---------------------------|----------------|-------|
| **SINGLE-COIL HEATERS FOR HEAT PUMP** | | | | | |
| 20117745 | IDRA HP 300 [2] | 1615 x 600 | 263 single-coil | 85 | C |
| 20204198 | IDRA C-HP 150 MS | 1138 x 604 | 170 single-coil | 55 | B |
| 20204200 | IDRA C-HP 200 MS | 1354 x 604 | 210 single-coil | 58 | B |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single-coil | 68 | B |

(2) Heaters for Hybrid MS Systems.

## Accessories for IDRA HP 300 single-coil storage tanks (compatible with kit E)

| CODE | DESCRIPTION |
|------|-------------|
| 4383504 | Solar heat exchanger 0,8 m$^2$ for IDRA HP 300 [1] |
| 20203248 | Solar heat exchanger 0,8 m$^2$ for C-HP 150-300 |
| 4383270 | Single-phase resistance kit 1,5 kW 1 "1/2 |

(1) The accessory must be ordered together with the base unit (if the latter is not available, the accessory cannot be ordered). It is supplied uninstalled.

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

| CODE | DESCRIPTION |
|------|-------------|
| 20104496 | 25-litre cylindrical technical tank kit [1] |
| 20171999 | STOR H 50 - 50-litre inertial buffer tank [1] |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit [1] [2] |

(1) Provide at least 3,5 litres per kW of heat pump cooling output.
(2) Code with limited availability.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

## Accessories for Hybrid Systems (compatible with Kit D)

| CODE | DESCRIPTION |
|---|---|
| 20165741 | Photovoltaic input board kit [1] |

(1) To be used only if there is no diverting valve kit code 20131755 within the packages.

## 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:**

| | | |
|---|---|---|
| 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:**

| | | |
|---|---|---|
| 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:**

| | | |
|---|---|---|
| 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 the boiler, the hybrid system command panel, solar collector, heat pump, storage cylinder or inertial storage tank: these must be chosen from the codes indicated in the combination tables.
(*) Refer to the "Command panels for hybrid systems" table for the system command panel.

# HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 REC10MH hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.



Basic layout purely for illustrative purposes

## Key:
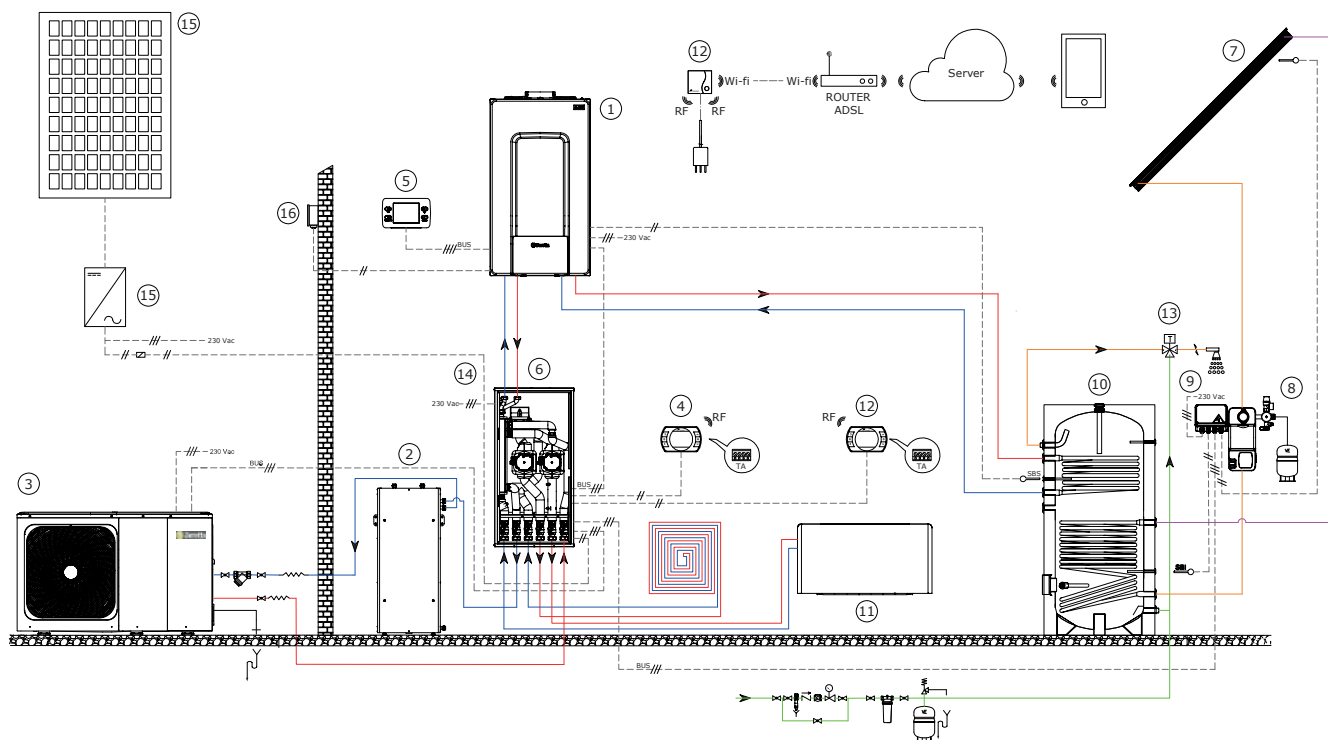
**1** Wall hung boilers [1]
**2** STOR H 50 - 50-litre inertial buffer tank
**3** Heat pump [1]
**4** Hi, Comfort T100 Control
**5** REC10MH or T300 hybrid systems management control [2]
**6** Kit D - Hybrid DS (heating only - solar) built into the BOX and with optional cock kit
**7** Solar collector
**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** Wi-fi module
**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) For more info about combining boilers and heat pumps, refer to the tables in the "GUIDE TO SYSTEM CONFIGURATION" page 65.
(2) The hybrid system management control T300 code 20205322 is necessary to create a wall-mounted hybrid system with the Mynute EVO X and EXCLUSIVE EVO X boilers
Only for boilers with REC10MH device already installed on the boiler. If it is installed on the wall, the control on the boiler must be disconnected and remotely controlled using a specific accessory. For all configurations, refer to the applicable design and installation standards and to the product's technical manuals

# HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

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

| CODE | DESCRIPTION | MANAGEMENT COMFORT | MANAGEMENT DHW | | | MANAGEMENT ZONES |
|---|---|---|---|---|---|---|
| 20134969 | HYBRID DS 1 DIR - DHW (HEATING ONLY-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 1 DIRECT |
| **CONSISTING OF:** | | | | | | |
| 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. |
| | | | | | | |
| 20134970 | HYBRID DS 2 DIR - DHW (HEATING ONLY-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 2 DIRECT |
| **CONSISTING OF:** | | | | | | |
| 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. |
| | | | | | | |
| 20134971 | HYBRID DS 1HT/1LT - DHW (HEATING ONLY-HEAT PUMP) | hot / cold | ⚡ | ⬭ | - | 1HT + 1LT |
| **CONSISTING OF:** | | | | | | |
| 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. |

⚡ Heat pump; ⬭ Hybrid Ready condensing combi 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 the boiler, the hybrid system command panel, the heat pump, storage cylinder or inertial storage tank: these must be chosen from the codes indicated in the combination tables.
(*) Refer to the "Command panels for hybrid systems" table for the system command panel.

# HYBRID SYSTEMS FOR HYBRID READY HEATING-ONLY BOILER

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

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

The system is controlled by the REC10MH hybrid control connected to Connect Hybrid, and the outdoor temperature probe connected to the boiler.



Basic layout purely for illustrative purposes

### Key:
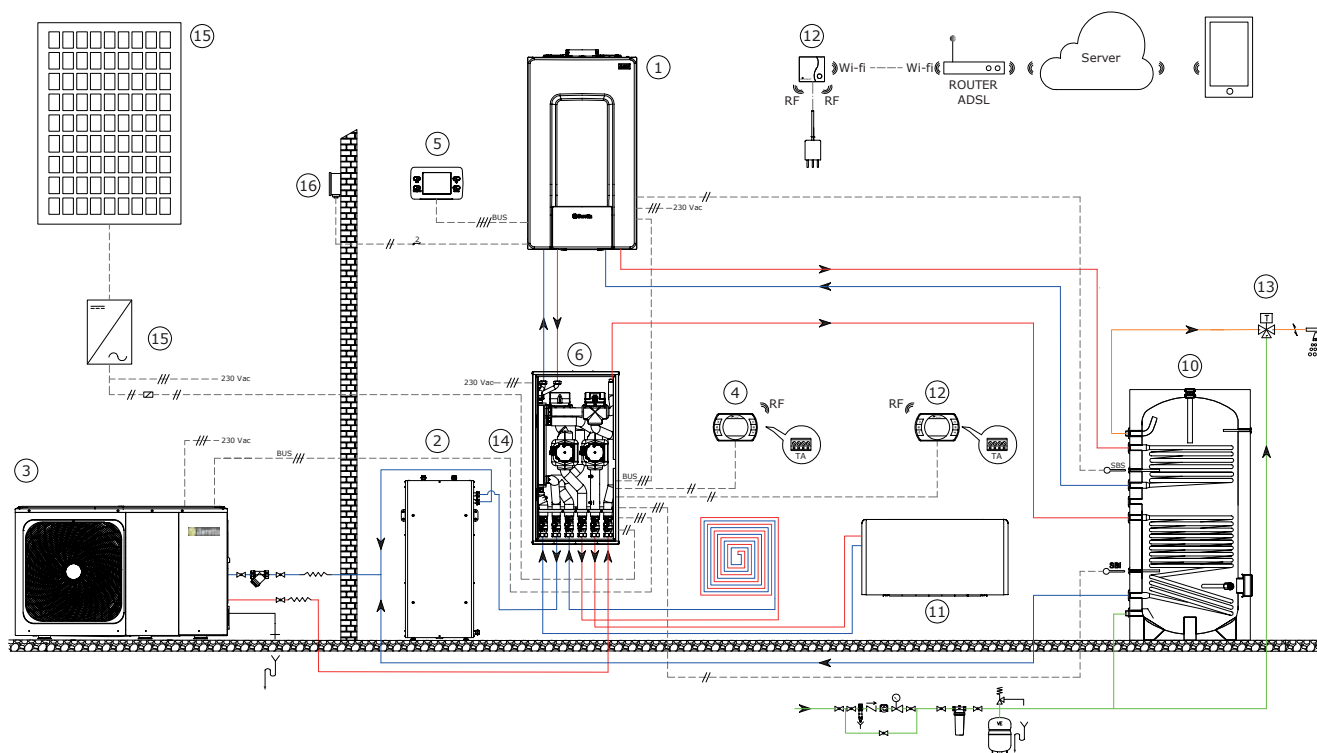
**1** Wall hung boilers [1]
**2** STOR H 50 - 50-litre inertial buffer tank
**3** Heat pump [1]
**4** Hi, Comfort T100 Control
**5** REC10MH or T300 hybrid systems management control (code sold in kit E - Hybrid DS - heating-only / PD) [2]
**6** Kit E - Hybrid DS (heating only - Heat Pump) built into the BOX and with optional cock kit
**10** Double-coil domestic water heater
**11** Tivano Fan coil
**12** Wi-fi module
**13** Thermostatic mixing valve (optional code)
**14** Photovoltaic input board (included in kit E - Hybrid DS - heating-only / Heat Pump)
**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) For more info about combining boilers and heat pumps, refer to the tables in the "GUIDE TO SYSTEM CONFIGURATION" page 65.
(2) The hybrid system management control T300 code 20205322 is necessary to create a wall-mounted hybrid system with the Mynute EVO X and EXCLUSIVE EVO X boilers
Only for boilers with REC10MH device already installed on the boiler. If it is installed on the wall, the control on the boiler must be disconnected and remotely controlled using a specific accessory. For all configurations, refer to the applicable design and installation standards and to the product's technical manuals

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

■ The system consists of 2 main components: condensing boiler POWER EVO-X or POWER MAX, and heat pump HYDRO UNIT M 004÷016 or HYDRO UNIT M 018÷030
■ Multi-energy hybrid system suitable for central heating and domestic hot water production
■ Possibility of solar thermal integration
■ Wide range of accessories

## Heating-only condensing boilers

| CODE | MODEL | DIMENSIONS H x L x P (mm) | HEAT INPUT HEATING MODE Min - Max (kW) | CLASS |
|------|-------|---------------------------|----------------------------------------|-------|
| **SINGLE-PHASE HEAT PUMPS** | | | | |
| 20190069 | POWER EVO-X 50 DEP | 740 x 470 x 350 | 5,20-34,9 | A |
| 20190070 | POWER EVO-X 50 | 740 x 470 x 350 | 5,20-45 | A |
| 20190072 | POWER EVO-X 65 | 740 x 470 x 453 | 8,20-55 | A |
| 20190073 | POWER EVO-X 80 | 740 x 470 x 453 | 8,20-70 | A |
| 20128431 | POWER MAX 65 P | 1000 x 600 x 435 | 57-13,6 | A |
| 20128432 | POWER MAX 80 P | 1000 x 600 x 435 | 68-13,6 | A |
| 20128433 | POWER MAX 100 | 1000 x 600 x 435 | 90-19,4 | A |
| 20128434 | POWER MAX 110 | 1000 x 600 x 435 | 97-19,4 | A |
| 20128435 | POWER MAX 130 (115 HI) | 1170 x 600 x 435 | 112-22,4 | A |
| 20128436 | POWER MAX 150 | 1170 x 600 x 435 | 131-26,2 | A |

(*) In combination with optional control kit Hi, Comfort T100 code 20193352 (class V) or optional control kit Hi, Comfort T100 Wi-F code 20193354 (class VI) connected to the boiler or, when present, to the additional zone card kit code 20130811.

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## MONOBLOC HEAT PUMP

| CODE | MODEL | DIMENSIONS H x L x P (mm) | HEAT.[1]/COOL.[2] OUTPUT (kW) | CLASS 55°C | CLASS 35°C |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20203416 | HYDRO UNIT M 010 | 865 x 1385 x 523 | 10.00 / 9.90 | A++ | A+++ |
| 20203656 | HYDRO UNIT M 012 | 865 x 1385 x 523 | 12.10 / 12.00 | A++ | A+++ |
| 20203659 | HYDRO UNIT M 014 | 865 x 1385 x 523 | 14.50 / 13.50 | A++ | A+++ |
| 20203660 | HYDRO UNIT M 016 | 865 x 1385 x 523 | 15.90 / 14.20 | A++ | A+++ |
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20203672 | HYDRO UNIT M 012T | 865 x 1385 x 523 | 12.10 / 12.00 | A++ | A+++ |
| 20203674 | HYDRO UNIT M 014T | 865 x 1385 x 523 | 14.50 / 13.50 | A++ | A+++ |
| 20203678 | HYDRO UNIT M 016T | 865 x 1385 x 523 | 15.90 / 14.20 | A++ | A+++ |
| 20194173 | HYDRO UNIT M 018T | 1558 x 1129 x 528 | 18,00/ 18,50 | A++ | A+++ |
| 20194174 | HYDRO UNIT M 022T | 1558 x 1129 x 528 | 22,00/ 23,00 | A++ | A+++ |
| 20194175 | HYDRO UNIT M 026T | 1558 x 1129 x 528 | 26,00/ 27,00 | A+ | A+++ |
| 20194176 | HYDRO UNIT M 030T | 1558 x 1129 x 528 | 30,10/ 31,00 | A+ | A++ |

(1) External air temperature DBT + 7 °C / WBT + 6 °C, Water Temperature 30 °C - 35 °C;
(2) External air temperature DBT  + 35 °C/ WBT + 24 °C, Water Temperature 23 °C - 18 °C.
DBT = Dry Bulb Temperature - WBT = Wet Bulb Temperature

## Inertial buffer tanks

| CODE | MODEL | DIMENSIONS H x L x P (mm) | CAPACITY (l) | DISPERSION (W) | CLASS |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20056180 | STOR H 200 | 1395 x 550 | 203 | 68 | C |
| 20056181 | STOR H 300 | 1560 x 600 | 277 | 82 | C |
| 20056183 | STOR H 500 | 1840 x 700 | 473 | 114 | C |

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

## Compatible Solar hydraulic units

| CODE | MODEL |
|---|---|
| 20116161 | Flow and return hydraulic group - CONNECT SOLAR M/R - 7.5 m² |

## Compatible Solar collectors

| CODE | MODEL | DIMENSIONS H x L x P (mm) | TOTAL AREA (m²) |
|---|---|---|---|
| 20201328 | Sealed solar collector - 2,5 m² | 2020 x 1235 x 85 | 2,49 |
| 20201335 | Sealed solar collector - 2 m² | 1625 x 1235 x 85 | 2 |

## Compatible Cylinder for DHW

| CODE | MODEL | DIMENSIONS H x L x P (mm) | CAPACITY (l) | DISPERSION (W) | CLASS ≋ |
|---|---|---|---|---|---|
| 20117745 | IDRA HP 300 | 1615 x 600 | 263 single-coil | 85 | C |
| 20117746 | IDRA HP 500 | 1690 x 750 | 470 single-coil | 112 | C |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single-coil | 68 | B |
| 20204204 | IDRA C-HP 500 MS | 1793 x 755 | 500 single-coil | 84 | B |
| 20204206 | IDRA C-HP 800 MS | 1835 x 974 | 735 single-coil | 94 | - |
| 20204208 | IDRA C-HP 1000 MS | 2155 x 974 | 890 single-coil | 101 | - |
| 20117883 | IDRA DS 430 | 1644 x 755 | 430 double-coil | 75 | B |
| 20117884 | IDRA DS 550 | 1988 x 755 | 551 double-coil | 85 | - |
| 20132278 | IDRA DS 750 | 1846 x 1000 | 731 double-coil | 94 | - |
| 20132281 | IDRA DS 1000 | 2171 x 1000 | 883 double-coil | 101 | - |
| 20136241 | IDRA N DS 1500 | 2185 x 1200 | 1390 double-coil | 162 | - |
| 20136242 | IDRA N DS 2000 | 2470 x 1300 | 1950 double-coil | 186 | - |

Heat Pump
# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

## GUIDE TO SYSTEM CONFIGURATION

1. SELECTION OF WALL-HUNG BOILER RANGE

1.1 POWER EVO-X boiler-Heat pump combinations

1.2 POWER MAX boiler-Heat pump combinations

2. WALL-HUNG BOILER ACCESSORIES

2.1 Accessories for POWER EVO-X boilers

2.2 Accessories for POWER MAX boilers

3. ACCESSORIES TO COMPLETE THE SYSTEM

3.1 Hydraulic accessories

3.2 Domestic hot water tank accessories

4. HI, COMFORT CONTROLS

## 1. SELECTION OF WALL-HUNG BOILER RANGE

| Boiler output power (80°/60°) [kW] | | Stand alone | Number of cascading boilers | | | |
|---|---|---|---|---|---|---|
| Boiler Range | Boiler Description | 1 | 2 | 3 | 4 | 5 |
| POWER EVO-X | POWER EVO-X 50 | 34 | 68 | | | |
| | POWER EVO-X 50 DEP | 44 | 88 | | | |
| | POWER EVO-X 65 | 54 | 107 | | | |
| | POWER EVO-X 80 | 68 | 136 | | | |
| POWER MAX | POWER MAX 100 | 56 | 111 | | | |
| | POWER MAX 110 | 67 | 134 | | | |
| | POWER MAX 130 | 88 | 177 | 265 | 353 | |
| | POWER MAX 150 | 95 | 191 | 286 | 381 | |
| | POWER MAX 65 P | 110 | 220 | 329 | 439 | 549 |
| | POWER MAX 80 P | 129 | 258 | 387 | 516 | 645 |

41

**1.1 POWER EVO-X boiler-heat pump combinations (recommended)***

Combinations with stand-alone boilers

| CODE | MODEL | Nominal power (kW) | 1x HYDRO UNIT M 010 (20203416) 10 | 1x HYDRO UNIT M 012 (20203656) 12,1 | 1x HYDRO UNIT M 014 (20203659) 14,5 | 1x HYDRO UNIT M 016 (20203660) 15,9 | 1x HYDRO UNIT M 012T (20203672) 12,1 | 1x HYDRO UNIT M 014T (20203674) 14,5 | 1x HYDRO UNIT M 016T (20203678) 15,9 | 1x HYDRO UNIT M 018T (20194173) 18 | 1x HYDRO UNIT M 022T (20194174) 22 | 1x HYDRO UNIT M 026T (20194175) 26 | 1x HYDRO UNIT M 030T (20194176) 30,1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20190069 | POWER EVO-X 50 DEP | 34 | ● | ● | ● | ● | ● | ● | ● | | | | |
| 20190070 | POWER EVO-X 50 | 43,9 | | ● | ● | ● | ● | ● | ● | ● | | | |
| 20190072 | POWER EVO-X 65 | 53,6 | | | ● | ● | | ● | ● | ● | ● | ● | |
| 20190073 | POWER EVO-X 80 | 68,2 | | | | | | | | ● | ● | ● | ● |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

Combinations with cascading boilers

| CODE | MODEL | Nominal power (kW) | 1x HYDRO UNIT M 018T (20194173) 18 | 1x HYDRO UNIT M 022T (20194174) 22 | 1x HYDRO UNIT M 026T (20194175) 26 | 1x HYDRO UNIT M 030T (20194176) 30,1 | 2x HYDRO UNIT M 018T (20194173) 36 | 2x HYDRO UNIT M 022T (20194174) 44 | 2x HYDRO UNIT M 026T (20194175) 52 | 2x HYDRO UNIT M 030T (20194176) 60,2 | 3x HYDRO UNIT M 018T (20194173) 54 | 3x HYDRO UNIT M 022T (20194174) 66 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20190069 | 2x POWER EVO-X 50 DEP | 68 | ● | ● | ● | ● | | | | | | |
| 20190070 | 2x POWER EVO-X 50 | 87,8 | | ● | ● | ● | ● | | | | | |
| 20190072 | 2x POWER EVO-X 65 | 107,2 | | | | ● | ● | ● | ● | | | |
| 20190073 | 2x POWER EVO-X 80 | 136,4 | | | | | ● | ● | ● | ● | ● | ● |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

## 1.2 POWER MAX boiler-heat pump combinations (recommended)*

Combinations with stand-alone boilers

| CODE | MODEL | Nominal power (kW) | 1x HYDRO UNIT M 014 (20203659) | 1x HYDRO UNIT M 016 (20203660) | 1x HYDRO UNIT M 014T (20203674) | 1x HYDRO UNIT M 016T (20203678) | 1x HYDRO UNIT M 018T (20194173) | 1x HYDRO UNIT M 022T (20194174) | 1x HYDRO UNIT M 026T (20194175) | 1x HYDRO UNIT M 030T (20194176) | 2x HYDRO UNIT M 018T (20194173) | 2x HYDRO UNIT M 022T (20194174) | 2x HYDRO UNIT M 026T (20194175) | 2x HYDRO UNIT M 030T (20194176) | 3x HYDRO UNIT M 018T (20194173) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Nominal power (kW) | 14,5 | 15,9 | 14,5 | 15,9 | 18 | 22 | 26 | 30,1 | 36 | 44 | 52 | 60,2 | 54 |
| 20128431 | POWER MAX 65 P | 55,7 | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| 20128432 | POWER MAX 80 P | 67 | | | | | ● | ● | ● | ● | | | | | |
| 20128433 | POWER MAX 100 | 88,3 | | | | | | | ● | ● | ● | ● | | | |
| 20128434 | POWER MAX 110 | 95,3 | | | | | | | ● | ● | ● | ● | | | |
| 20128435 | POWER MAX 130 | 109,8 | | | | | | | | ● | ● | ● | ● | | ● |
| 20128436 | POWER MAX 150 | 129 | | | | | | | | | ● | ● | ● | ● | ● |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

Combinations with cascading boilers

| CODE | MODEL | Nominal power (kW) | 1x HYDRO UNIT M 030T (20194176) | 2x HYDRO UNIT M 018T (20194173) | 2x HYDRO UNIT M 022T (20194174) | 2x HYDRO UNIT M 026T (20194175) | 2x HYDRO UNIT M 030T (20194176) | 3x HYDRO UNIT M 018T (20194173) | 3x HYDRO UNIT M 022T (20194174) | 3x HYDRO UNIT M 026T (20194175) | 3x HYDRO UNIT M 030T (20194176) | 4x HYDRO UNIT M 030T (20194176) | 5x HYDRO UNIT M 030T (20194176) | 6x HYDRO UNIT M 030T (20194176) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Nominal power (kW) | 30,1 | 36 | 44 | 52 | 60,2 | 54 | 66 | 78 | 90,3 | 120,4 | 150,5 | 180,6 |
| 20128431 | 2x POWER MAX 65 P | 111,4 | ● | ● | ● | ● | | ● | | | | | | |
| 20128432 | 2x POWER MAX 80 P | 134 | | ● | ● | ● | ● | ● | ● | | | | | |
| 20128433 | 2x POWER MAX 100 | 176,6 | | | | ● | ● | ● | ● | ● | | | | |
| 20128434 | 2x POWER MAX 110 | 190,6 | | | | ● | ● | ● | ● | ● | ● | | | |
| 20128435 | 2x POWER MAX 130 | 219,6 | | | | | ● | ● | ● | ● | | | | |
| 20128436 | 2x POWER MAX 150 | 258 | | | | | | | ● | ● | ● | ● | | |
| 20128433 | 3x POWER MAX 100 | 264,9 | | | | | | | | ● | ● | ● | | |
| 20128434 | 3x POWER MAX 110 | 285,9 | | | | | | | | ● | ● | ● | | |
| 20128435 | 3x POWER MAX 130 | 329,4 | | | | | | | | | ● | ● | ● | |
| 20128436 | 3x POWER MAX 150 | 387 | | | | | | | | | | ● | ● | ● |
| 20128433 | 4x POWER MAX 100 | 353,2 | | | | | | | | | ● | ● | ● | |
| 20128434 | 4x POWER MAX 110 | 381,2 | | | | | | | | | | ● | ● | ● |
| 20128435 | 4x POWER MAX 130 | 439,2 | | | | | | | | | | ● | ● | ● |
| 20128436 | 4x POWER MAX 150 | 516 | | | | | | | | | | | ● | ● |
| 20128435 | 5x POWER MAX 130 | 549 | | | | | | | | | | | ● | ● |
| 20128436 | 5x POWER MAX 150 | 645 | | | | | | | | | | | | ● |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.

## 2. BOILER ACCESSORIES

### 2.1 Accessories for POWER EVO-X boiler

| CODE | MODEL |
|------|-------|
| **BOILER ACCESSORIES** | |
| 1220559 | Outdoor temperature probe kit with connector |
| 20201490 | LPG transformation kit (35/45 kW) |
| 20201489 | LPG transformation kit (55/70 kW) |
| 20196701 | Support frame |
| 20190221 | Shut-off cock |
| 4031810 | Condensate neutralizer N2 (up to 450 kW) |
| 4031811 | Condensate neutralizer HN2 (up to 280 kW) |
| **ACCESSORIES - STAND ALONE INSTALLATION** | |
| 20195886 | Connection pipe to hydraulic separator/plate heat exchanger [1] |
| 20195884 | Horizontal hydraulic separator |
| 20195889 | Internal 3 way valve kit [2] |
| 20195890 | External 3 way valve kit [3] |
| 20195891 | Delivery/return connection for direct installation |
| 20195883 | Safety kit manifold [4] |
| 20199254 | Safety valve 4,5 bar FF 3/4"x1" [5] |
| 20195885 | Cover for safety kit/hydraulic separator |
| 20200070 | Spacer kit for fixing to wall [6] |
| **ACCESSORIES - CASCADE INSTALLATION** | |
| 20197000 | Trains with isolation [7] [8] |
| 20197001 | Trains with isolation - B2B [7] [8] |
| 20197005 | Trains without isolation [7] [8] |
| 20197006 | Trains without isolation - B2B [7] [8] |
| 20197634 | Gas train kit for cascade installation 35-45 kW [7] |
| 20197635 | Gas train kit for cascade installation 55-70 kW [7] |
| 20197639 | Gas train kit for cascade installation 35-45 kW - B2B [7] |
| 20197640 | Gas train kit for cascade installation 55-70 kW - B2B [7] |
| 20197007 | 2'' 1/2 manifolds for cascade of 2 boilers |
| 20197362 | 2'' 1/2 manifolds for cascade of 1 boiler |
| 20197366 | Through flange kit 2"1/2 PN6 |
| 20197367 | Blind flange kit 2''1/2 PN6 |
| 20197364 | Condensate outlet kit for cascade boiler |
| 20196449 | Stub kit for safety device housing 2" 1/2 |
| 20197642 | Hydraulic separator kit 2"1/2 |
| 20071190 | Safety kit [9] |
| 20197368 | Safety valve up to 400 kW (4,5 bar) |
| 20009486 | Fuel shut-off valve (VIC) - ØG.1" [10] [12] |
| 20009482 | Fuel shut-off valve (VIC) - ØG.1" ½ [11] [12] |
| 20197363 | Manifolds and ramps cover for stand alone boiler |
| 20129765 | Fixed split system kit Ø80 mm 20129765 |
| 20197070 | Adapter Ø80 to Ø110 mm |
| 20196319 | Ø80/110 mm - Rainproof vertical adapter 20196319 |
| 20137506 | 90° Ø80 mm bend |
| 20137538 | Air-intake kit B23 |
| 20062338 | Cascade terminal Ø160 mm with condensate drain |
| 20197583 | Collector Ø160 mm for 1 boiler |
| 20197582 | Y-fitting Ø160/160 mm |
| 20200265 | Cascade and zone remote control [13] |

(1) Prearranged for coupling with safety valve code 20199254.

Heat Pump
## MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

*B*eretta

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

(2) Can be combined with models 35-45 kW.
(3) Can be combined with plate heat exchanger kit for single boiler for DHW production.
(4) It contains a thermometer, pressure gauge, relief valve, safety pressure switch and VIC valve.
(5) Can be used in Italy in combination with the 35kW model only.
(6) Kit required for concentric rear wall outlet for 55-70 kW models.
(7) To be ordered for each storage tank in the cascade system (qty = no. boilers).
(8) Does not include the gas train
(9) Does not include the relief valve and VIC.
(10) Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.
(11) Recommended up to maximum output of 230 kW, calculated considering gas supply pressure = 20 mbar.
(12) Intervention temperature 97 °C - Capillary length 5 m.
(13) Allows management of: cascade system, solar thermal and up to 6 independent direct/mixed zones.

## 2.2 Accessories for POWER MAX boiler

| CODE | MODEL |
|------|-------|
| **BOILER ACCESSORIES** | |
| 20132778 | External probe |
| 20133102 | Condensate outlet kit for stand alone boiler |
| 20125034 | Injection pump kit POWER MAX 100 - 110 - 130 (115 Hi) [1] [2] |
| 20125035 | Injection pump kit POWER MAX 130 [1] [2] |
| 20125040 | High head injection pump POWER MAX 150 [1] [4] |
| 20131898 | Stub kit with safety devices for stand alone boiler 65 to 150 [5] |
| 20190221 | Shut-off cock 1" ½ |
| 20131663 | Frame kit for FRONT/B2B cascade [6] |
| 20131664 | Frame conversion kit for B2B cascade [6] |
| 4031811 | HN2 neutraliser kit up to 280 kW [7] [8] |
| 4031810 | N2 neutraliser kit up to 450 kW [7] |
| 4031812 | N3 neutraliser kit 450 to 1500 kW [7] |
| 4031813 | HN3 neutraliser kit 280 to 750 kW [7] [8] |
| **ACCESSORIES - STAND ALONE INSTALLATION** | |
| 20131897 | Horizontal hydraulic separator kit for POWER MAX stand alone boiler |
| 20136823 | Delivery/return fitting kit for direct installation (without hydraulic separator) [9] |
| 20131665 | Conversion kit C type for POWER MAX 65 P - 80 P |
| 20131668 | Conversion kit C type for POWER MAX 100 - 110 - 130 (115 Hi) - 150 |
| 20131270 | Spacer kit for fixing to wall [10] |
| 20133224 | Cover for safety kit/hydraulic separator unit for POWER MAX stand alone boiler |
| 20213521 | Kit remote control POWER MAX (11) |
| **ACCESSORIES - CASCADE INSTALLATION** | |
| 20175716 | Primary sensor [12] |
| 20131267 | Condensate outlet kit for cascade boilera [13] |
| 20130658 | Trains without isolation for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [14] |
| 20131122 | Trains with isolation for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 (14) (18) |
| 20131121 | Trains without isolation for POWER MAX 150 (external pump) [15] |
| 20131123 | Trains without isolation for POWER MAX 150 (external pump) [15] [18] |
| 20131787 | Trains without isolation for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 B2B [16] |
| 20131789 | Trains without isolation  INAIL per POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 B2B [16] [18] |
| 20131788 | Trains without isolation for POWER MAX 150 (external pump) B2B [17] |
| 20131790 | Trains without isolation for POWER MAX 150 (external pump) B2B [17] [18] |
| 20133220 | Hydraulic manifold kit 3" flanged DN80 + GAS 2" threaded - for 1 frame [19] |
| 20130220 | Hydraulic manifold kit 3" flanged DN80 + GAS 2" threaded - for 2 frames  (up to 485 kW) [20] |
| 20130221 | Hydraulic manifold kit 3" flanged DN80 + GAS 2" threaded - for 3 frames  (up to 485 kW) [20] |
| 20130222 | Hydraulic manifold kit 5" flanged DN125 + GAS 3" threaded DN80 - for 2 frames  (over 485 kW) [21] |
| 20130223 | Hydraulic manifold kit 5" flanged  DN125 + GAS 3" threaded DN80 - for 3 frames (over 485 kW) [21] |
| 20132377 | Manifolds and ramps cover kit - for single POWER MAX in cascade application |
| 20070903 | Closing plug kit 3" [22] |
| 20082190 | Through flange kit 3" |

| CODE | MODEL |
|---|---|
| 20070907 | Closing plug kit 5" [22] |
| 20082191 | Through flange kit 5" |
| 20070910 | Stub kit for housing 3" safety device [23] |
| 20070912 | Stub kit for housing 5" safety device [23] |
| 20071190 | Safety kit (safety valve not included and VIC) |
| 20023104 | Safety valve up to 460 kW (5,4 bar 3/4" F) |
| 20023106 | Safety valve up to 580 kW (5,4 bar 1" F) |
| 20009486 | Fuel shut-off valve (VIC) - Ø G.1" - TS=97°C - Capillare L=5 m [24] |
| 20009482 | Fuel shut-off valve (VIC) - Ø G.1" 1/2 - TS=97°C - Capillare L=5 m [25] |
| 20009483 | Fuel shut-off valve (VIC) - Ø G.2" - TS=97°C - Capillare L=5 m [26] |
| 20061640 | Fuel shut-off valve (VIC) - Ø G.3" - TS=97°C - Capillare L=5 m [27] |
| 20131238 | Adapter Ø80/110 mm [35] [28] |
| 20062338 | Cascade terminal Ø160 mm with condensate outlet |
| 20131266 | Collector array Ø160 mm for 1 boiler |
| 20132391 | Eccentric adapter Ø160/200 mm |
| 20132381 | Y fitting Ø160 / Ø160 (only available with B2B configuration) |
| 20132384 | Y fitting Ø160 / Ø200 (only available with B2B configuration) |

(1) For POWER MAX 65 P - 80 P models the pump is already present in the boiler.

(2) The pump, which can be housed in the boiler, offers a high residual head on POWER MAX 100-110 and with these boilers is also suitable in combination with the plate heat exchanger. If the pump is used with POWER MAX 130 (115 Hi), it can be combined with the hydraulic separator but not with the plate heat exchanger.

(3) When combined with POWER MAX 150, this circulation pump can be mounted inside the boiler and offers a very low residual head (10 mbar). It must ONLY be used in combination with the horizontal hydraulic separator code: 20131897.

(4) This circulation pump cannot be mounted inside the boiler, it must be installed beneath the boiler.

(5) Includes all the safety devices, including safety valve and VIC mandatory for the Italian market.

(6) 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.

(7) Availability of the material at our warehouse: 30 working days from the order receipt date.

(8) Equipped with extraction pumps.

(9) Kit compatible with all POWER MAX models in case of presence of kit and without the need of hydraulic separator

(10) Kit necessary for wall rear concentric exhaust.

(11) Necessary for hourly programming of the heater and for programming of zones (also those managed by the additional zone kits)

(12) No.1 pc. for each cascade system, to be connected to the main boiler, i.e. the one that controls the cascade system

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

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

(15) To be ordered for each manifold-side boiler with pump or valve installed outside the boiler.

(16) To be ordered for each boiler opposite the manifolds with pump or valve installed inside the boiler.

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

(18) The kits allow you to bypass the single thermal unit to proceed with its maintenance while the other thermal units continue to operate

(19) To be used for the BACK TO BACK configuration with no. 2 BOILERS; includes 3"" flanged DN80 delivery/return manifolds, 2"" threaded gas manifold, condensate outlet manifold.

(20) For use with maximum power up to 485 kW; includes 3" flanged DN80 delivery/return manifolds, 2" threaded gas manifold, condensate outlet manifold.

(21) For use with maximum power exceeding 485 kW; includes 5"" flanged DN125 delivery/return manifolds, 3"" flanged DN80 gas manifold, condensate outletmanifold.

(22) They allow the closure, on one side, of the gas collector and the two hydraulic collectors

(23) Intended for use in cascade systems without primary circuit circulating pump

(24) Recommended up to maximum output of 131 kW, calculated considering gas supply pressure = 20 mbar.

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

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

(27) Recommended up to maximum output of 1150 kW, calculated considering gas supply pressure = 20 mbar.

(28) Only necessary for the models POWER MAX 65 P - 80 P

## 3. ACCESSORIES TO COMPLETE THE SYSTEM

### 3.1 Heat pump accessories

| CODE | MODEL |
|------|-------|
| 20194933 | Temperature probe for balancing tanks or zone 2 flow temperature or solar temperature |

### 3.2 DHW heater accessories

| CODE | MODEL |
|------|-------|
| 20055206 | Electric anode kit 1/2" [1] |
| 20123850 | Thermometer kit for DHW heater [1] |
| 20123851 | Curve kit for electronic anode [1] |
| 4383504 | Solar heat exchanger for IDRA HP 300 [2] |
| 4383505 | Solar heat exchanger for IDRA HP 500 [3] |
| 20203248 | Solar heat exchanger 0,8 m$^2$ per C-HP 150-300 |
| 20203246 | Solar heat exchanger 1,2 m$^2$ per C-HP 500 |
| 20203245 | Solar heat exchanger 1,9 m$^2$ per C-HP 800-1000 |

(1) Accessories for DHW heater of the IDRA DS series
(2) Accessories for DHW heater of the IDRA HP 300
(3) Accessories for DHW heater of the IDRA HP 500

## 4. Hi, COMFORT CONTROLS

### 3.1 Heat pump accessories

| CODE | MODEL |
|------|-------|
| 20193354 | Hi, Comfort T100 Wi-Fi [1] |
| 20193352 | Hi, Comfort T100 Wi-Fi [2] |

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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

BIVALENT HEATING SYSTEM WITH HEAT PUMP AND BOILER
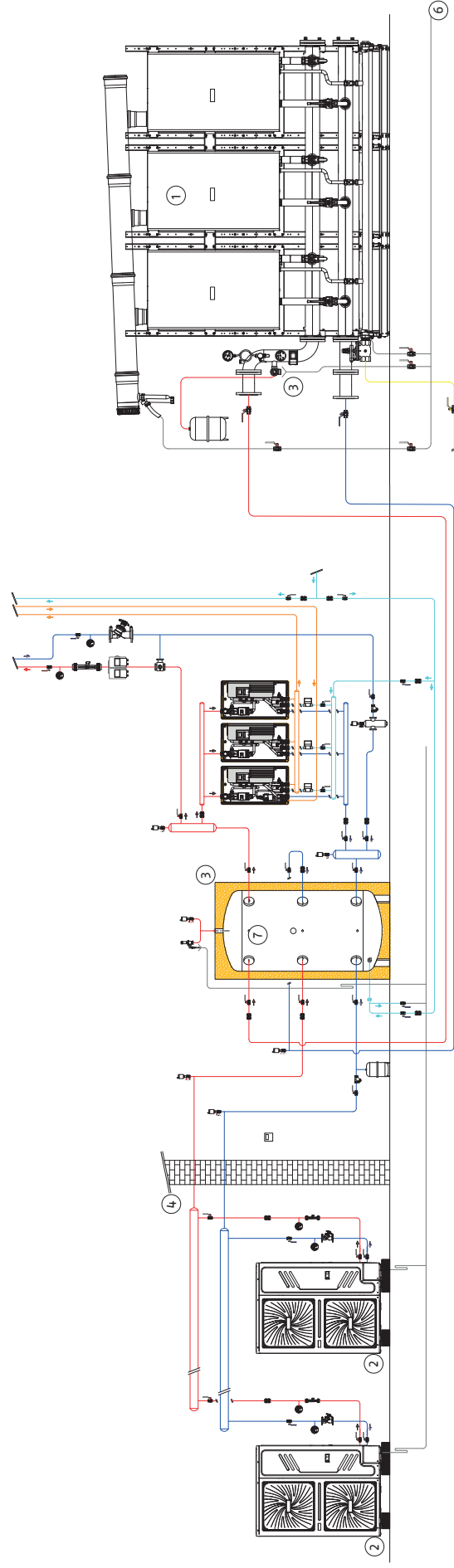


1  Condensing boiler POWER EVO-X / POWER MAX
2  Heat pump HYDRO UNIT M 010÷16  or HYDRO UNIT M 018÷030
3  Storage tank
4  External sensor for boiler thermoregulation

5  Safety stub
6  Condensate outlet
7  System sensor + cascade sensor + storage tank sensor

Heat Pump

# MONOBLOC WALL-HUNG HYBRID SYSTEM "MAX"

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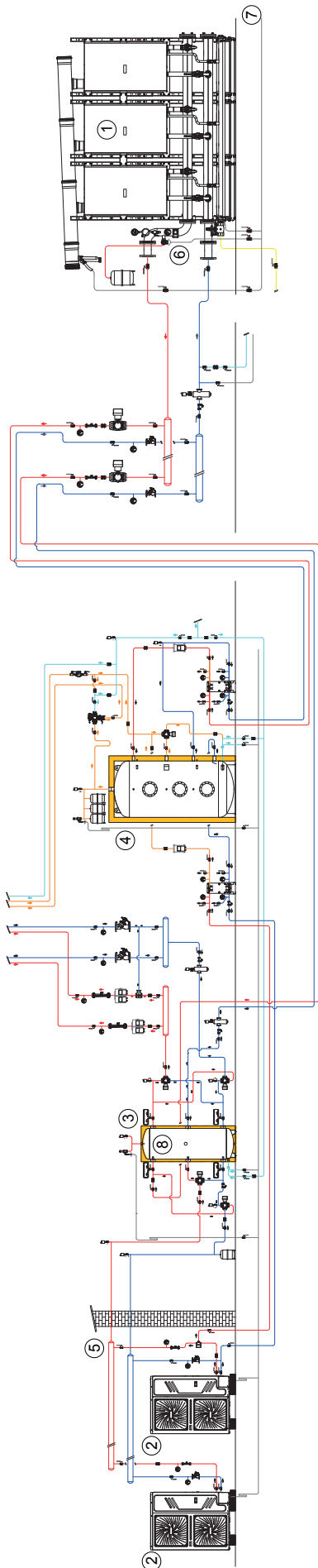


8   Condensing boiler POWER EVO-X / POWER MAX
9   Heat pump HYDRO UNIT M 010÷16 or HYDRO UNIT M 018÷030
10  Storage tank
11  DHW storage tank

12  External sensor for thermoregulation (supplied with the PdC)
13  Safety stub
14  Condensate outlet

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

**A⁺ SYSTEM**

Kasko [1]

- **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
- Sanitary mixing valve as standard
- For gas conversion, please contact the authorised Beretta Technical Service Centres

## Pre-mixed combined boilers

| CODE MTN [1] | MODEL | DIMENSIONS H x L x D (mm) | HEAT INPUT Min - Max (kW) | HEATER CAPACITY (litres) | CLASS | |
|---|---|---|---|---|---|---|
| **INSTANTANEOUS COMBINED** | | | | | | |
| 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.

(1) The Kasko formula is an option reserved for the boiler only.

## Specific accessories for Hybrid BOX system

| 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 |
| 20150823 | Remote interface kit |
| 20147627 | Remote interface kit with release button |
| 20171999 | STOR H 50 - 50-litre inertial buffer tank |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit |
| 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 [1] |
| 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) |
| 20059639 | ALPHA DGT digital thermostat (86x86x20 mm) |
| 20059641 | ALPHA DGT WIRELESS digital thermostat (86x86x20 mm) |

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

## Hi, Comfort T100 commands for managing domestic comfort via a smartphone or tablet [*]

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Hi, Comfort T100 Wi-Fi [1] |
| 20193352 | Hi, Comfort T100 [2] |
| 20193355 | Hi, Comfort G100-W |
| 20193356 | Hi, Comfort G100-R |

(1) Includes Hi, Comfort G100-W for an Internet connection via an ADSL home wi-fi router.
(2) For wired connection to the boiler. Compatible for a radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included, but necessary for the Internet connection via an ADSL home router).
(*) Possibility of ON/OFF connection: for more info, refer to the pages dedicated to the Hi, Comfort T100 command in the THERMOSTATS AND TIMED THERMOSTATS section of the price list catalogue.
(3) If Hi, Comfort G100-W is available and the ADSL home wi-fi signal near the boiler is weak, the RF wireless receiver (supplied with kit 20101748 ALPHA 7 D WIRELESS) can be installed, connecting it in place of Hi, Comfort G100-W in the boiler. Hi, Comfort G100-W can then be brought closer to the ADSL home wi-fi router. In this case, the RF wireless receiver acts as an RF signal bridge and the ALPHA 7D is coupled with Hi, Comfort G100-W to maintain the wireless communication (ON/OFF installations only).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 |

## Heat pumps (compatible with underboiler kit and kits A, B and C)

| CODE | MODEL | DIMENSIONS H x L x D (mm) | HEAT.[1]/COOL.[2] OUTPUT (kW) | CLASS ▥55°C | ▥35°C |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20203411 | HYDRO UNIT M 004 | 718 x 1295 x 426 | 4,20 / 4,50 | A⁺⁺ | A⁺⁺⁺ |
| 20203413 | HYDRO UNIT M 006 | 718 x 1295 x 426 | 6,35 / 6,50 | A⁺⁺ | A⁺⁺⁺ |
| 20203414 | HYDRO UNIT M 008 | 865 x 1385 x 523 | 8,40 / 8,30 | 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 that can be used for stand-alone full electric installation with commands supplied as standard, and for hybrid systems in combination with the REC10MH command (refer to the specific section).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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
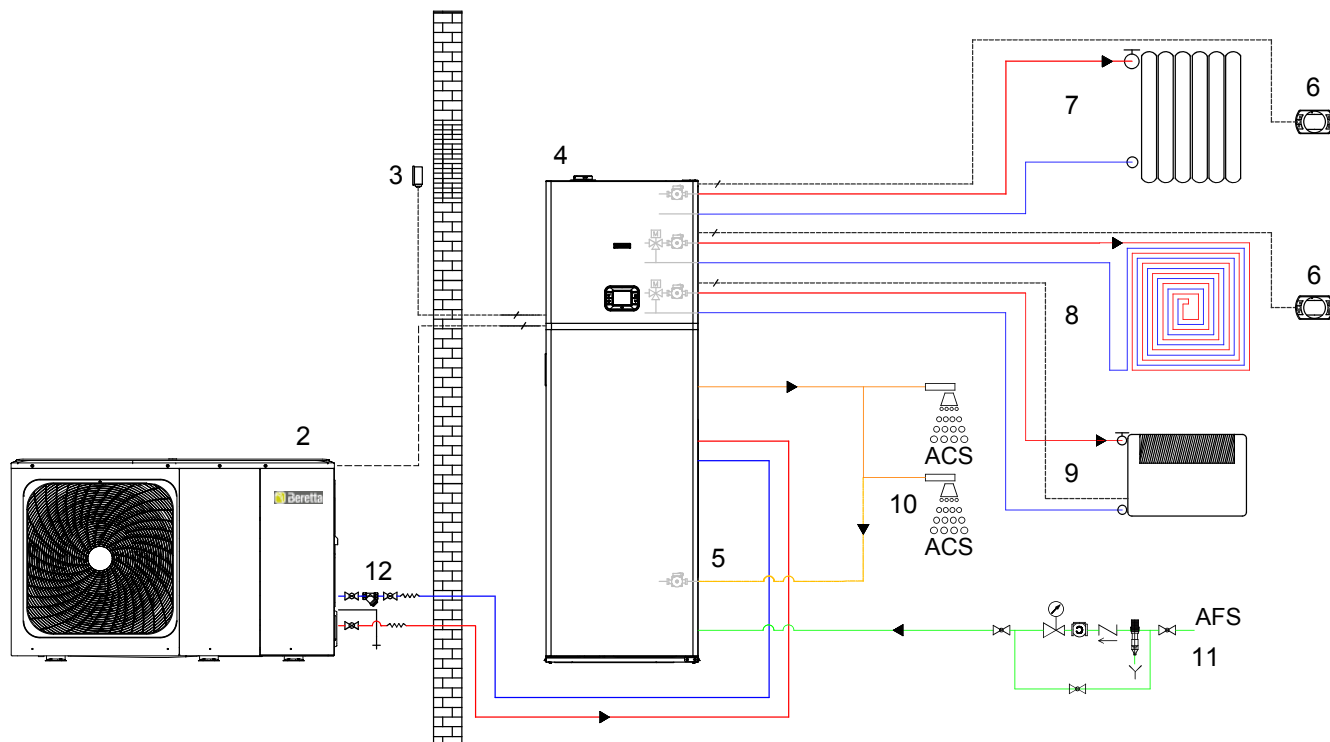


Basic layout purely for illustrative purposes

## Key:

**2** Heat pump
**3** External probe positioned north-north-west
**4** TOWER GREEN HE HYBRID S 35/200 BSI floor-standing condensing boiler with one direct zone as standard and two optional mixed zones
**5** Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulating pump with timer)
**6** Hi, Comfort T100 command

**7** Direct/high temperature zone (TIVANO fan coil or radiator)
**8** Zone No. 1 mixed/low temperature (or direct) for floor-standing system
**9** 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

**A⁺ SYSTEM**

- The system consists of 3 basic components: combined condensing boiler, EXCLUSIVE AGILE R32 heat pump and REC10 MH user interface (optional)
- The multi-energy hybrid system is suitable for room heating and domestic hot water production
- Possibility of solar integration
- Simple and intuitive REC10 I control with large backlit display, which allows the full parametrisation of the system as well as displaying the operating status
- Wide range of accessories

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

| CODICE MTN [1] | MODEL | GAS | 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** | | | | | | | |
| 20206141 | EXCLUSIVE EVO X 25C | MTN/GPL[1] | 740 x 420 x 275 | 1,90 - 20,00 | 14,3 | A | A |
| 20206142 | EXCLUSIVE EVO X 30C | MTN/GPL[1] | 740 x 420 x 275 | 2,70 - 25,00 | 17,2 | A | A |
| 20206143 | EXCLUSIVE EVO X 35C | MTN/GPL[1] | 740 x 420 x 275 | 2,70 - 32,00 | 20,0 | A | A |
| 20205312 | MYNUTE EVO X 25 C | MTN/GPL[1] | 740 x 420 x 275 | 2,50 - 20,00 | 14,3 | A | A |
| 20205313 | MYNUTE EVO X 30 C | MTN/GPL[1] | 740 x 420 x 275 | 3,00 - 25,00 | 17,2 | A | A |
| 20205314 | MYNUTE EVO X 35 C | MTN/GPL[1] | 740 x 420 x 275 | 3,50 - 30,00 | 20,0 | A | A |
| 20197875 | CIAO X 25C | MTN | 740 x 420 x 275 | 3,1-20,0/3,1-25,0 | 14,3 | A | A |
| 20197877 | CIAO X 25C | GPL | 740 x 420 x 275 | 5,0-20,0/5,0-25,0 | 14,3 | A | A |
| 20197876 | CIAO X 30C | MTN | 740 x 420 x 275 | 3,95-25,0/3,95-30,0 | 17,2 | A | A |

(1) Boilers in which gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings.

# RES B COMBI WALL-HUNG SPLIT HYBRID SYSTEM

## Wall-hung split heat pumps

| CODE | DESCRIPTION | DIMENSIONS H x L x D (mm) | HEATING | | | | COOLING | | | | CLASS | |
|------|-------------|-----------|---------|---|---|---|---------|---|---|---|-------|---|
| | | | Floor [1] | | Fan coils [2] | | Floor [3] | | Fan coils [4] | | | |
| | | | Nominal output (kW) | COP | Nominal output (kW) | COP | Nominal output (kW) | EER | Nominal output (kW) | EER | ▮▮▮▮ [5] | ▮▮▮▮ [6] |
| **WITHOUT ON BOARD BACK UP HEATER** | | | | | | | | | | | | |
| 20205784 | SET EXCLUSIVE AGILE 4 KW M | 712 x 1008 x 426 (UE) | 4,25 | 5,20 | 4,35 | 3,80 | 4,50 | 5,55 | 4,70 | 3,45 | A+++ | A++ |
| 20205786 | SET EXCLUSIVE AGILE 6 KW M | 712 x 1008 x 426 (UE) | 6,20 | 5,00 | 6,35 | 3,75 | 6,55 | 4,90 | 7,00 | 3,00 | A+++ | A++ |
| 20205788 | SET EXCLUSIVE AGILE 8 KW M | 865 x 1118 x 523 (UE) | 8,30 | 5,20 | 8,20 | 3,95 | 8,40 | 5,05 | 7,40 | 3,38 | A+++ | A++ |
| 20205791 | SET EXCLUSIVE AGILE 10 KW M | 865 x 1118 x 523 (UE) | 10,00 | 5,00 | 10,00 | 3,80 | 10,00 | 4,80 | 8,20 | 3,30 | A+++ | A++ |
| 20205793 | SET EXCLUSIVE AGILE 12 KW M | 865 x 1118 x 523 (UE) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |
| 20205800 | SET EXCLUSIVE AGILE 14 KW M | 865 x 1118 x 523 (UE) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A+++ | A++ |
| 20205804 | SET EXCLUSIVE AGILE 12 KW T | 865 x 1118 x 523 (UE) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |
| 20205806 | SET EXCLUSIVE AGILE 14 KW T | 865 x 1118 x 523 (UE) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A+++ | A++ |

The performance is in accordance with standards EN 14511 and EN 14825.
(1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
(2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.
(3) External air temperature 35°C; water inlet/outlet 23/18°C.
(4) External air temperature 35°C; water inlet/outlet 12/7°C.
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# RES B COMBI WALL-HUNG SPLIT HYBRID SYSTEM

## Management control

| DESCRIPTION | DIMENSIONS H x L x D (mm) | NET WEIGHT (kg) |
|---|---|---|
| REC10 MH CONTROL | 90 x 146 x 32 | 0,15 |

Note: The REC10MH panel manages the operation of the new heat pump in a hybrid system.

| DESCRIPTION | DIMENSIONS H x L x D (mm) | NET WEIGHT (kg) |
|---|---|---|
| T300 Hi, Comfort Management control | 95 X 132 X 95 | 0,15 |

## 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 | 1338 x 604 | 208 double coil | 62 | B |
| 20117882 | IDRA DS 300 | 1838 x 604 | 301 double coil | 69 | B |
| 20117883 | IDRA DS 430 | 1644 x 755 | 430 double coil | 75 | 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 | 1615 x 600 | 263 single-coil | 85 | C |
| 20117746 | IDRA HP 500 | 1690 x 750 | 470 single-coil | 112 | C |
| 20204198 | IDRA C-HP 150 MS | 1138 x 604 | 170 single-coil | 55 | B |
| 20204200 | IDRA C-HP 200 MS | 1354 x 604 | 210 single-coil | 58 | B |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single-coil | 68 | B |
| 20204204 | IDRA C-HP 500 MS | 1793 x 755 | 500 single-coil | 84 | B |

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

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS |
|---|---|---|---|---|---|
| **SINGLE-COIL HEATERS FOR HEAT PUMP** | | | | | |
| 20171999 | STOR H 50 - 50-litre inertial buffer tank [1] | H x L x D 1080 x 470 x 250 | 50 | - | - |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit [1] | H x L x P 920 x 500 x 450 | 100 | - | - |
| 20056180 | STOR H 200 | 1395 x 550 | 203 | 68 | C |
| 20056181 | STOR H 300 | 1560 x 600 | 277 | 82 | C |

(1) Provide at least 3,5 litres per kW of heat pump cooling output.

## Solar collectors (for kit A only)

| CODE | DESCRIPTION | MODEL |
|---|---|---|
| 20201328 | Sealed solar collector - 2,5 m$^2$ | SCF-25/4B A |
| 20201335 | Sealed solar collector - 2 m$^2$ | SCF-20/4B A |

Note: for bracket codes and glycol refer to the solar thermal section.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# RES B COMBI WALL-HUNG SPLIT HYBRID SYSTEM

## GUIDE TO SYSTEM CONFIGURATION



| 1. | BOILER-HEAT PUMP COMBINATIONS |
|---|---|

| 2. | WALL-HUNG BOILER ACCESSORIES |
|---|---|

| 3. | ACCESSORIES TO COMPLETE THE SYSTEM |
|---|---|

| 3.1 Connect Hybrid |
|---|
| 3.2 Built-in installation for Connect Hybrid |
| 3.3 Hydraulic accessories |
| 3.4 Electrical accessories |

## 1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

| Wall-hung boilers | | Heat pumps | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Single-phaseW | | | | | | Three-phase | |
| INSTANTANEOUS COMBINED HEATING AND DOMESTIC WATER VERSION | | SET AGILE 4 KW M | SET AGILE 6 KW M | SET AGILE 8 KW M | SET AGILE 10 KW MW | SET AGILE 12 KW M | SET AGILE 14 KW M | SET AGILE 12 KW T | SET AGILE 14 KW T |
| CODE | MODEL | 20205784 | 20205786 | 20205788 | 20205791 | 20205793 | 20205800 | 20205804 | 20205806 |
| 20206141 | EXCLUSIVE EVO X 25C | • | • | • | | | | | |
| 20206142 | EXCLUSIVE EVO X 30C | • | • | • | • | • | | • | |
| 20206143 | EXCLUSIVE EVO X 35C | • | • | • | • | • | • | • | • |
| 20205312 | MYNUTE EVO X 25 C | • | • | • | | | | | |
| 20205313 | MYNUTE EVO X 30 C | • | • | • | • | • | | • | |
| 20205314 | MYNUTE EVO X 35 C | • | • | • | • | • | • | • | • |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid Combined Systems
# RES B COMBI WALL-HUNG SPLIT HYBRID SYSTEM

*Beretta*

| Wall-hung boilers | | Heat pumps | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Single-phaseW | | | | | | Three-phase | |
| INSTANTANEOUS COMBINED HEATING AND DOMESTIC WATER VERSION | | SET AGILE 4 KW M | SET AGILE 6 KW M | SET AGILE 8 KW M | SET AGILE 10 KW MW | SET AGILE 12 KW M | SET AGILE 14 KW M | SET AGILE 12 KW T | SET AGILE 14 KW T |
| CODE | MODEL | 20205784 | 20205786 | 20205788 | 20205791 | 20205793 | 20205800 | 20205804 | 20205806 |
| 20197875 | CIAO X 25C | • | • | • | | | | | |
| 20197877 | CIAO X 25C | • | • | • | | | | | |
| 20197876 | CIAO X 30C | • | • | • | • | • | | • | |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration. Combine the built-in box code 20130808 only with CONNECT HYBRID code 20130801, 20130802 and 20130803.

## 2. WALL-HUNG BOILER ACCESSORIES

| CODE | DESCRIPTION |
|---|---|
| **Accessories** | |
| 20016681 | EDILBOX built-in box [1] |
| 1103289 | BOX for recessed IN-BOX installation |
| 20156799 | Combined MYNUTE X frost protection heating element kit (down to -15°C) |
| 20132005 | Wall-mounted hydraulic connections and gas tap kit |
| 20133516 | Wall-mounted hydraulic connections and heating, gas and DHW taps kit |
| 20134477 | Connections kit for IN-BOX installation for EXCLUSIVE X - MYNUTE X |
| 20196582 | Rigid ramps for EDILBOX - 25 kW [5] |
| 20196580 | Rigid ramps for BOX GREEN - 25 kW [5] |
| 20196581 | Rigid ramps for BOX GREEN - 30 kW [5] |
| 20191518 | Kit polyphosphates dispenser (compact) |
| 20191517 | Kit magnetic filter (compact) |

(1) BOX compatible with Mynute X 25 C via specific accessory kit for built-in code 20196582.
(2) Paintable box.
(3) The front of the BOX (door) protrudes 26 mm from the recessed frame.
(4) BOX compatible with Mynute X 25 C and Mynute X 30 C respectively through the specific accessory kits for built-in cod. 20196580 and 20196581.
(5) The 'RIGID RAMPS' kits must be used in conjunction with the accessories Compact magnetic filter kit cod. 20191517 and Polyphosphate dosing compact kit cod. 20191518.

## 3. ACCESSORIES TO COMPLETE THE SYSTEM

### 3.1 Connect Hybrid

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

(1) Supplied without built-in Box (code 20130808), for the installation it is neccessary to purchase it.

### 3.2 Built-in installation for Connect Hybrid

| CODE | DESCRIPTION |
|------|-------------|
| 20130808 | BOX (also for built-in installation) for CONNECT HYBRID [1] |
| 20131752 | Cock Kit for CONNECT HYBRID |

(1) Paintable box.

### 3.3 Hydraulic accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20035644 | Solar diverter mixing valve |
| 20116162 | 7.5 m CONNECT SOLAR R - only return hydraulic group |
| 20175281 | 1" Y water filter |
| 20165227 | Hybrid hydr. distr. hydraulic module 1 DIR |
| 20203742 | 1" & 1 ¼" DHW diverting valve without temperature probe |

### 3.4 Electrical accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20168672 | Solar thermal unit interface kit [1] |
| 1220559 | Outdoor temperature probe kit with connector [1] |

(1) Allows visualization of the operating status of the solar system on the REC10 MH system interface.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Hybrid Combined Systems

# RES B COMBI WALL-HUNG SPLIT HYBRID SYSTEM

## EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

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



Impianto ACS \ AFS
DHW \ DCW system

Approvvigionamento idrico
Water supply

Zona riscaldamento \ raffrescamento 1
Heating \ cooling zone 1

Linea gas

Scarichi acque bianche (se necessario, neutralizzare la condensa acida di caldaia)
White water discharge line (if necessary, neutralyze boiler's acid condensate)

1  Heat pump outdoor unit
2  Heat pump indoor unit with circulator and reservoir
3  Hydraulic module with non-return valves
4  Under-boiler cock kit

5  Expansion reservoir
6  Boiler with circulator and reservoir
7  Shut-off valve
8  Non-return valve
9  Filter

10  Safety valve
11  Deaerator
12  DHW heater
13  DHW diverting valve
14  DHW mixer

15  By-pass valve
16  Storage tank

61

A⁺ **SYSTEM**

- The system consists of 3 basic components: heating-only condensing boiler, EXCLUSIVE AGILE R32 heat pump and REC10 MH user interface (optional)
- The multi-energy hybrid system is suitable for room heating and domestic hot water production
- Possibility of solar integration
- Simple and intuitive REC10 MH control with large backlit display, which allows the full parametrisation of the system as well as displaying the operating status
- Wide range of accessories

## Heating-only condensing boilers (compatible with under-boiler kit and kits D and E)

| CODE | MODEL | GAS | DIMENSIONS H x L x D (mm) | HEAT OUTPUT HEAT. /DOMESTIC WATER Min - Max (kW) | CLASS | |
|---|---|---|---|---|---|---|
| **HEATING-ONLY VERSION** | | | | | | |
| 20206144 | EXCLUSIVE EVO X 25R | MTN/GPL[1] | 740 x 420 x 275 | 1,9 - 20,0 / 1,9 - 25,0 | A | - |
| 20206145 | EXCLUSIVE EVO X 35R | MTN/GPL[1] | 740 x 420 x 275 | 2,7 - 32,0 / 2,7 - 34,9 | A | - |
| 20205315 | MYNUTE EVO X 20 R | MTN/GPL[1] | 740 x 420 x 275 | 2,5 - 20,0 / 2,5 - 20,0 | A | - |
| 20205316 | MYNUTE EVO X 30 R | MTN/GPL[1] | 740 x 420 x 275 | 3,5 - 30,0 / 3,5 - 34,9 | A | - |
| 20187766 | CIAO X 15 R | MTN | 740 x 420 x 275 | 3,1-15,0 / 3,1-25,0 | A | - |
| 20187767 | CIAO X 25R | MTN | 740 x 420 x 275 | 3,1-20,0 / 3,1-25,0 | A | - |

(1) In EXCLUSIVE R boilers gas switch-over, thanks to the new ACC combustion system, is carried out through electronic settings.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

Heating-only Hybrid systems
# RES B HEATING-ONLY WALL-HUNG SPLIT HYBRID SYSTEM

**Beretta**

## Wall-hung split heat pumps

| CODE | DESCRIPTION | DIMENSIONS H x W x P (mm) | HEATING | | | | COOLING | | | | CLASS | |
| | | | Floor system [1] | | Fan coils [2] | | Floor system [3] | | Fan coils [4] | | | |
| | | | Heating capacity (kW) | COP | Heating capacity (kW) | COP | Cooling capacity (kW) | EER | Cooling capacity (kW) | EER | [5] | [6] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WITHOUT ON BOARD BACK UP HEATER** | | | | | | | | | | | | |
| 20205784 | SET EXCLUSIVE AGILE 4 KW M | 712x1008x426 (ODU) | 4,25 | 5,20 | 4,35 | 3,80 | 4,50 | 5,55 | 4,70 | 3,45 | A+++ | A++ |
| 20205786 | SET EXCLUSIVE AGILE 6 KW M | 712x1008x426 (ODU) | 6,20 | 5,00 | 6,35 | 3,75 | 6,55 | 4,90 | 7,00 | 3,00 | A+++ | A++ |
| 20205788 | SET EXCLUSIVE AGILE 8 KW M | 865x1118x523 (ODU) | 8,30 | 5,20 | 8,20 | 3,95 | 8,40 | 5,05 | 7,40 | 3,38 | A+++ | A++ |
| 20205791 | SET EXCLUSIVE AGILE 10 KW M | 865x1118x523 (ODU) | 10,00 | 5,00 | 10,00 | 3,80 | 10,00 | 4,80 | 8,20 | 3,30 | A+++ | A++ |
| 20205793 | SET EXCLUSIVE AGILE 12 KW M | 865x1118x523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |
| 20205800 | SET EXCLUSIVE AGILE 14 KW M | 865x1118x523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A+++ | A++ |
| 20205804 | SET EXCLUSIVE AGILE 12 KW T | 865x1118x523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |
| 20205806 | SET EXCLUSIVE AGILE 14 KW T | 865x1118x523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A+++ | A++ |

The performance is in accordance with standards EN 14511 and EN 14825.
(1) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 30/35°C.
(2) External air temperature 7°C D.B., 6°C W.B.; water inlet/outlet 40/45°C.
(3) External air temperature 35°C; water inlet/outlet 23/18°C.
(4) External air temperature 35°C; water inlet/outlet 12/7°C.
(5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013.
(6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013.

## Management control
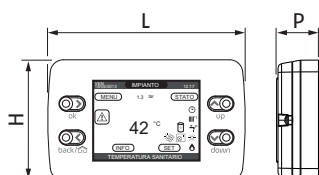


| DESCRIPTION | DIMENSIONS H x L x D (mm) | NET WEIGHT (kg) |
|---|---|---|
| REC10 MH CONTROL | 90 x 146 x 32 | 0,15 |

Note: The REC10MH panel manages the operation of the new heat pump in a hybrid system.
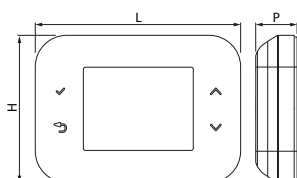


| DESCRIPTION | DIMENSIONS H x L x D (mm) | NET WEIGHT (kg) |
|---|---|---|
| T300 Hi, Comfort Management control | 95 X 132 X 95 | 0,15 |

# RES B HEATING-ONLY WALL-HUNG SPLIT HYBRID SYSTEM

## Double-coil heaters

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS ≋ |
|---|---|---|---|---|---|
| **DOUBLE-COIL HEATERS** | | | | | |
| 20117881 | IDRA DS 200 | 1338 X 604 | 208 double coil | 62 | B |
| 20117882 | IDRA DS 300 | 1838 X 604 | 301 double coil | 69 | B |

## Single-coil heaters

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS ≋ |
|---|---|---|---|---|---|
| **SINGLE-COIL HEATERS FOR HEAT PUMP** | | | | | |
| 20117745 | IDRA HP 300 | 1615 x 600 | 263 single-coil | 85 | C |
| 20117746 | IDRA HP 500 | 1690 x 750 | 470 single-coil | 112 | C |
| 20204198 | IDRA C-HP 150 MS | 1138 x 604 | 170 single-coil | 55 | B |
| 20204200 | IDRA C-HP 200 MS | 1354 x 604 | 210 single-coil | 58 | B |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single-coil | 68 | B |
| 20204204 | IDRA C-HP 500 MS | 1793 x 755 | 500 single-coil | 84 | B |

## Inertial buffer tanks

| CODE | MODEL | DIMENSIONS H x Ø (mm) | HEATER CAPACITY (litres) | DISPERSION (W) | CLASS ≋ |
|---|---|---|---|---|---|
| **SINGLE-COIL HEATERS FOR HEAT PUMP** | | | | | |
| 20171999 | STOR H 50 - 50-litre inertial buffer tank [1] | H x L x D 1080 x 470 x 250 | 54 | - | C |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit [1] | H x L x P 920 x 500 x 450 | 100 | - | - |
| 20056180 | STOR H 200 | 1395 x 550 | 203 | 68 | C |
| 20056181 | STOR H 300 | 1560 x 600 | 277 | 82 | C |

(1) Provide at least 3.5 litres per kW of heat pump cooling output.

## Solar collectors

| CODE | DESCRIPTION | MODEL |
|---|---|---|
| 20201328 | Sealed solar collector - 2,5 m$^2$ | SCF-25/4B A |
| 20201335 | Sealed solar collector - 2 m$^2$ | SCF-20/4B A |

Note: for bracket codes and glycol refer to the solar thermal section.

# RES B HEATING-ONLY WALL-HUNG SPLIT HYBRID SYSTEM

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## GUIDE TO SYSTEM CONFIGURATION



| 1. BOILER-HEAT PUMP COMBINATIONS |
|---|

| 2. WALL-HUNG BOILER ACCESSORIES |
|---|

| 3. ACCESSORIES TO COMPLETE THE SYSTEM |
|---|
| 3.1 Connect Hybrid |
| 3.2 Built-in installation for Connect Hybrid |
| 3.3 Hydraulic accessories |
| 3.4 Electrical accessories |

## 1. BOILER-HEAT PUMP COMBINATIONS (RECOMMENDED)*

| Wall-hung boilers | | Heat pumps | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Single-phase | | | | | | Three-phase | |
| INSTANTANEOUS COMBINED HEATING AND DOMESTIC WATER VERSION | | SET EXCLUSIVE AGILE 4 KW M | SET EXCLUSIVE AGILE 6 KW M | SET EXCLUSIVE AGILE 8 KW M | SET EXCLUSIVE AGILE 10 KW M | SET EXCLUSIVE AGILE 12 KW M | SET EXCLUSIVE AGILE 14 KW M | SET EXCLUSIVE AGILE 12 KW T | SET EXCLUSIVE AGILE 14 KW T |
| | | 20205784 | 20205786 | 20205788 | 20205791 | 20205793 | 20205800 | 20205804 | 20205806 |
| CODE | MODEL | | | | | | | | |
| 20206144 | EXCLUSIVE EVO X 25R | • | • | • | | | | | |
| 20206145 | EXCLUSIVE EVO X 35R | • | • | • | • | • | • | • | • |
| 20205315 | MYNUTE EVO X 20 R | • | • | • | | | | | |
| 20205316 | MYNUTE EVO X 30 R | • | • | • | • | • | | • | |
| 20187766 | CIAO X 15 R | • | • | | | | | | |
| 20187767 | CIAO X 25R | • | • | • | | | | | |

(*) The following combinations guarantee the best energy performance; for the full list of certified hybrid systems please refer to the company declaration.
Combine the built-in box code 20130808 only with CONNECT HYBRID code 20130801, 20130802 and 20130803.

## 2. WALL-HUNG BOILER ACCESSORIES

| CODE | DESCRIPTION |
|---|---|
| **Accessories** | |
| 1103289 | GREEN built-in BOX with door [1][2][3] |
| 20058454 | Built-in cabinet for HYBRID BOX and SOLAR BOX (4) - Dimensions in mm 2200 x 950 x 350 |
| 20134477 | Connection kit for EXCLUSIVE X - MYNUTE X built-in installation |
| 20196581 | Rigid ramps for BOX GREEN - 30 kW [4][5] |
| 20191518 | Kit polyphosphates dispenser (compact) |
| 20191517 | Kit magnetic filter (compact) |

(1) Paintable box.
(2) The front of the BOX (door) protrudes 26 mm from the recessed frame.
(3) BOX compatible with and Mynute X 30 C respectively through the specific accessory kits for built-in cod. 20196580 and 20196581.
(4) In case of boiler models only heating, the hydraulic fittings and ramps contained in the reference kit do not need application.
(5) The 'RIGID RAMPS' kits must be used in conjunction with the accessories Compact magnetic filter kit cod. 20191517 and Polyphosphate dosing compact kit cod. 20191518.

## 3. ACCESSORIES TO COMPLETE THE SYSTEM

### 3.1 Connect Hybrid

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

(1) Supplied without built-in Box (code 20130808), for the installation it is neccessary to purchase it.

### 3.2 Built-in installation for Connect Hybrid

| CODE | DESCRIPTION |
|---|---|
| 20130808 | BOX (also for built-in installation) for CONNECT HYBRID [1] |
| 20131752 | Cock Kit for CONNECT HYBRID |

(1) Paintable box.

## 3.3 Hydraulic accessories

| CODE | DESCRIPTION |
|---|---|
| 1150529 | Mixing valve 3/4" |
| 20035644 | Solar diverter mixing valve |
| 20116162 | 7.5 m CONNECT SOLAR R - only return hydraulic group |
| 20175281 | 1" Y water filter |
| 20165227 | Hybrid hydr. distr. hydraulic module 1 DIR |
| 20203742 | 1" & 1 ¼" DHW diverting valve without temperature probe |

## 3.4 Electrical accessories

| CODE | DESCRIPTION |
|---|---|
| 20168672 | Solar thermal unit interface kit [1] |
| 1220559 | Outdoor temperature probe kit with connector [1] |

(1) Allows visualization of the operating status of the solar system on the REC10 MH system interface.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Heating-only Hybrid systems

# RES B HEATING-ONLY WALL-HUNG SPLIT HYBRID SYSTEM

## EXAMPLES OF SYSTEM WITH SPLIT HYBRID SYSTEM

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



1  Heat pump outdoor unit
2  Heat pump indoor unit with circulator and reservoir
3  Hydraulic module with non-return valves
4  Under-boiler cock kit

5  Expansion reservoir
6  Boiler with circulator and reservoir
7  Shut-off valve
8  Non-return valve

9  Filter
10  Safety valve
11  Deaerator
12  DHW heater

13  DHW diverting valve
14  DHW mixer
15  Storage tank

Impianto ACS \ AFS
DHW \ DCW system

Approvvigionamento idrico
Water supply

Scarichi acque bianche (se necessario, neutralizzare la condensa acida di caldaia)
White water discharge line (if necessary, neutralyze boiler's acid condensate)

Zona riscaldamento \ raffrescamento 2
Heating \ cooling zone 2

Zona riscaldamento \ raffrescamento 1
Heating \ cooling zone 1

Linea gas

68

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



Linea gas

Impianto ACS \ AFS
DHW \ DCW system

Approvvigionamento idrico
Water supply

Impianto solare termico
Solar thermal system

Scarichi acque bianche (se necessario, neutralizzare la condensa acida di caldaia)
White water discharge line (if necessary, neutralyze boiler's acid condensate)

Zona riscaldamento \ raffrescamento 2
Heating \ cooling zone 2

Zona riscaldamento \ raffrescamento 1
Heating \ cooling zone 1

| | |
|---|---|
| 1 Heat pump outdoor unit | 6 Boiler with circulator and reservoir |
| 2 Heat pump indoor unit with circulator and reservoir | 7 Shut-off valve |
| 3 Hydraulic module with non-return valves | 8 Non-return valve |
| 4 Under-boiler cock kit | 9 Filter |
| 5 Expansion reservoir | 10 Safety valve |

| | |
|---|---|
| 11 Deaerator | 16 Solar station with control unit |
| 12 DHW heater | 17 Pre-reservoir |
| 13 DHW diverting valve | |
| 14 DHW mixer | |
| 15 Storage tank | |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HEAT PUMPS

»

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HYDRO UNIT M - HYDRONIC HEAT PUMPS

**Beretta**

HP KEYMARK certification

R32

- Hydronic air-to-water heat pump
- **HP Keymark certified performance.**
- Modbus connectivity as standard
- Variable speed circulating pump as standard
- **Source side exchanger with the special hydrophilic and anti-corrosion treatment as standard**
- Suitable for heating, cooling and domestic hot water production
- Rotary compressor with DC-Inverter technology
- **Operating range -25 °C/+43 °C**
- Maximum heating temperature 65 °C
- **Electronic expansion valve**
- Expansion reservoir as standard
- Very low noise
- **Ecological refrigerant R32**
- Included remote control can manage completely heating/ cooling/ domestic hot water operation, as well as up to 6 units in cascade system (1 master & 5 slaves) even with different power inputs.
- **Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.**

## Heat pump

| CODE | MODEL | DIMENSIONS H x L x P (mm) | HEATING[1]/COOLING[2] OUTPUT (kW) | CLASS 55°C | CLASS 35°C |
|------|-------|---------------------------|-----------------------------------|------------|------------|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20203411 | HYDRO UNIT M 004 | 718 x 1295 x 426 | 4,20 / 4,50 | A++ | A+++ |
| 20203413 | HYDRO UNIT M 006 | 718 x 1295 x 426 | 6,35 / 6,50 | A++ | A+++ |
| 20203414 | HYDRO UNIT M 008 | 865 x 1385 x 523 | 8,40 / 8,30 | A++ | A+++ |
| 20203416 | HYDRO UNIT M 010 | 865 x 1385 x 523 | 10,00 / 9,90 | A++ | A+++ |
| 20203656 | HYDRO UNIT M 012 | 865 x 1385 x 523 | 12,10 / 12,00 | A++ | A+++ |
| 20203659 | HYDRO UNIT M 014 | 865 x 1385 x 523 | 14,50 / 13,50 | A++ | A+++ |
| 20203660 | HYDRO UNIT M 016 | 865 x 1385 x 523 | 15,90 / 14,20 | A++ | A+++ |
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20203672 | HYDRO UNIT M 012T | 865 x 1385 x 523 | 12,10 / 12,00 | A++ | A+++ |
| 20203674 | HYDRO UNIT M 014T | 865 x 1385 x 523 | 14,50 / 13,50 | A++ | A+++ |
| 20203678 | HYDRO UNIT M 016T | 865 x 1385 x 523 | 15,90 / 14,20 | 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 and for full electric systems in combination with REC10MH control, for hybrid systems (see the dedicated section).

# HYDRO UNIT M - HYDRONIC HEAT PUMPS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20117745 | IDRA HP 300 storage tank |
| 20117746 | IDRA HP 500 storage tank |
| 20204198 | IDRA C-HP 150 MS storage tank |
| 20204200 | IDRA C-HP 200 MS storage tank |
| 20204202 | IDRA C-HP 300 MS storage tank |
| 20204204 | IDRA C-HP 500 MS storage tank |
| 20171999 | 50 litre inertial buffer tank [9] |
| 4383504 | Solar heat exchanger 0,8 m$^2$ for IDRA HP 300 storage tank [2] |
| 4383505 | Solar heat exchanger 1,2 m$^2$ for IDRA HP 500 storage tank [2] |
| 20203248 | Solar heat exchanger 0,8m$^2$ for C-HP 150-300 |
| 20203246 | Solar heat exchanger 1,2m$^2$ for C-HP 500 |
| 20203742 | 1 1/4" DHW diverting valve without temperature probe [1] [4] [5] |
| 20175281 | 1" Y water filter [7] |
| 20193922 | REC10MH remote control |
| 4383270 | Single-phase resistance kit 1,5 kW 1 "1/2 for IDRA HP 300 storage tank [2] |
| 20020707 | Three-phase resistance kit 3,8 kW 1 "1/2 for IDRA HP 500 storage tank [2] |
| 20182272 | Single-phase electric heating element for DHW heater 2,2 kW [3] [6] [8] |
| 20182292 | 1PH-3PH 2-6 kW supplemental electric heating element |
| 20194933 | Temperature probe for balance tank or zone 2 flow temperature or solar temperature |

(1) Mandatory in case of domestic hot water 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 REC10MH remote control.
(4) Accessory managed by the machine interface.
(5) It must be used in combination with the temperature probe included in the heat pump or with accessory 20194933.
(6) The kit includes the three-way diverting valve for DHW with storage tank probe.
(7) The corresponding filter is supplied with the product. If necessary, it must be used only for HYDRO UNIT M 004 and 006 models.
(8) Includes electrical power box and activation relay.
(9) The buffer tank cannot be installed horizontally under the heat pump

HP KEYMARK certification

R32

- Hydronic air-to-water heat pump
- **HP Keymark certified performance.**
- Modbus connectivity as standard
- Variable speed circulating pump as standard
- Source side exchanger with the special hydrophilic and anti-corrosion treatment as standard
- Suitable for heating, cooling and domestic hot water production
- **Rotary compressor with DC-Inverter technology**
- Operating range -25 °C/+43 °C
- **Maximum heating temperature 65 °C**
- Electronic expansion valve
- Expansion reservoir as standard
- Very low noise
- **Ecological refrigerant R32**
- Included remote control can manage completely heating/ cooling/ domestic hot water operation, as well as up to 6 units in cascade system (1 master & 5 slaves) even with different power inputs.
- **Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature.**

## Heat pump

| CODE | MODEL | DIMENSIONS H x L x P (mm) | HEATING[1]/COOLING[2] OUTPUT (kW) | CLASS 55°C | CLASS 35°C |
|---|---|---|---|---|---|
| **SINGLE-PHASE HEAT PUMPS** | | | | | |
| 20191950 | HYDRO UNIT M 004 | 792 x 1295 x 429 | 4,20 / 4,50 | A++ | A+++ |
| 20191951 | HYDRO UNIT M 006 | 792 x 1295 x 429 | 6,35 / 6,50 | A++ | A+++ |
| 20191952 | HYDRO UNIT M 008 | 945 x 1385 x 526 | 8,40 / 8,30 | A++ | A+++ |
| 20191953 | HYDRO UNIT M 010 | 945 x 1385 x 526 | 10,00 / 9,90 | A++ | A+++ |
| 20191954 | HYDRO UNIT M 012 | 945 x 1385 x 526 | 12,10 / 12,00 | A++ | A+++ |
| 20191956 | HYDRO UNIT M 014 | 945 x 1385 x 526 | 14,50 / 13,50 | A++ | A+++ |
| 20191957 | HYDRO UNIT M 016 | 945 x 1385 x 526 | 15,90 / 14,20 | A++ | A+++ |
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20191958 | HYDRO UNIT M 012T | 945 x 1385 x 526 | 12,10 / 12,00 | A++ | A+++ |
| 20191959 | HYDRO UNIT M 014T | 945 x 1385 x 526 | 14,50 / 13,50 | A++ | A+++ |
| 20191960 | HYDRO UNIT M 016T | 945 x 1385 x 526 | 15,90 / 14,20 | 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 and for full electric systems in combination with REC10MH control, for hybrid systems (see the dedicated section).

# HYDRO UNIT M - HYDRONIC HEAT PUMPS

🄽 Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories

| CODE | DESCRIPTION |
| --- | --- |
| 20117745 | IDRA HP 300 storage tank |
| 20117746 | IDRA HP 500 storage tank |
| 20204198 | IDRA C-HP 150 MS storage tank |
| 20204200 | IDRA C-HP 200 MS storage tank |
| 20204202 | IDRA C-HP 300 MS storage tank |
| 20204204 | IDRA C-HP 500 MS storage tank |
| 20171999 | 50 litre inertial buffer tank [9] |
| 4383504 | Solar heat exchanger 0,8 m$^2$ for IDRA HP 300 storage tank [2] |
| 4383505 | Solar heat exchanger 1,2 m$^2$ for IDRA HP 500 storage tank [2] |
| 20203248 | Solar heat exchanger 0,8m$^2$ for C-HP 150-300 |
| 20203246 | Solar heat exchanger 1,2m$^2$ for C-HP 500 |
| 20203742 | 1 1/4" DHW diverting valve without temperature probe [1] [4] [5] |
| 20175281 | 1" Y water filter [7] |
| 20193922 | REC10MH remote control |
| 4383270 | Single-phase resistance kit 1,5 kW 1 "1/2 for IDRA HP 300 storage tank [2] |
| 20020707 | Three-phase resistance kit 3,8 kW 1 "1/2 for IDRA HP 500 storage tank [2] |
| 20182272 | Single-phase electric heating element for DHW heater 2,2 kW [3] [6] [8] |
| 20182292 | 1PH-3PH 2-6 kW supplemental electric heating element |
| 20194933 | Temperature probe for balance tank or zone 2 flow temperature or solar temperature |

(1) Mandatory in case of domestic hot water 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 REC10MH remote control.
(4) Accessory managed by the machine interface.
(5) It must be used in combination with the temperature probe included in the heat pump or with accessory 20194933.
(6) The kit includes the three-way diverting valve for DHW with storage tank probe.
(7) The corresponding filter is supplied with the product. If necessary, it must be used only for HYDRO UNIT M 004 and 006 models.
(8) Includes electrical power box and activation relay.
(9) The buffer tank cannot be installed horizontally under the heat pump

HP KEYMARK
certification

R32

- Hydronic air to water heat pump monobloc
- **HP Keymark certified performance.**
- Modbus connection as standard
- Variable speed circulating pump as standard
- Source side exchanger with the special hydrophilic and anti-corrosion treatment as standard
- Suitable for heating, cooling and domestic hot water production
- Rotary compressor with DC-Inverter technology
- Operating range -25°C/+43°C
- **Maximum heating temperature 60°C**
- Electronic expansion valve
- Expansion vessel as standard
- Silent operation
- **Ecological refrigerant R32**
- **Included remote control included can manage completely heating/ cooling/ domestic hot water operation, as well as up to 6 units in cascade system (1 master & 5 slaves) even with different power inputs.**
- Anti-freeze program protects the entire system especially the hydraulic parts from damage in very cold ambient air temperature

## Heat pump

| CODE | MODEL | DIMENSIONS H x L x P (mm) | HEATING[1]/COOLING[2] OUTPUT (kW) | CLASS 55°C | CLASS 35°C |
|------|-------|---------------------------|-----------------------------------|------------|------------|
| **THREE-PHASE HEAT PUMPS** | | | | | |
| 20194173 | HYDRO UNIT M 018T | 1558 x 1129 x 528 | 18,00/ 18,50 | A⁺⁺ | A⁺⁺⁺ |
| 20194174 | HYDRO UNIT M 022T | 1558 x 1129 x 528 | 22,00/ 23,00 | A⁺⁺ | A⁺⁺⁺ |
| 20194175 | HYDRO UNIT M 026T | 1558 x 1129 x 528 | 26,00/ 27,00 | A⁺ | A⁺⁺⁺ |
| 20194176 | HYDRO UNIT M 030T | 1558 x 1129 x 528 | 30,10/ 31,00 | 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.

# HYDRO UNIT M - HYDRONIC HEAT PUMPS

## Accessories

| CODE | DESCRIPTION |
|---|---|
| 20056180 | STOR H 200 inertial buffer tank |
| 20117746 | Heater IDRA HP 500 for heat pump |
| 20204206 | IDRA C-HP 800 MS |
| 20204208 | IDRA C-HP 1000 MS |
| 4383505 | Solar heat exchanger for IDRA HP 500 [2] |
| 20203245 | Solar heat exchanger 1,9 m$^2$ for IDRA C-HP 800-100 storage tank |
| 4383270 | Single-phase electrical resistance 1,5 kW, 1" ½ [1] [2] |
| 4383271 | Single-phase electrical resistance kit 2,2 kW 1" ½ [1] [2] |
| 4383272 | Single-phase electrical resistance kit 3,0 kW 1" ½ [1] [2] |
| 20020707 | Three-phase electrical resistance kit 3,8 kW, 1" ½ [1] [2] |
| 20182292 | 1PH-3PH 2-6 kW supplemental electric heating element |
| 20142300 | STOR H 100 - 100-litre technical hot/cold tank kit |
| 20175145 | Support bracket kit for heat pump installed on STOR H 100 |
| 20171891 | Heat pump vibration damper kit |
| 20203742 | 1" & 1 ¼" DHW diverting valve without temperature probe [3] |
| 20194933 | Temperature probe for balance tank or zone 2 flow temperature or solar temperature |

(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) The accessory must be used in combination with the temperature probe included in the heat pump, or accessory 20194933.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# EXCLUSIVE AGILE - WALL HUNG SPLIT HEAT PUMP

**Beretta**

R32

- **Split heat pump with wall-hung indoor unit for heating, cooling and DHW production.**
- Wide range of sizes available, from 4 up to 16 kW.
- High efficiency up to A+++ class.
- Intelligent management of auxiliary energy sources: integrative heating element, boiler, solar thermal unit.
- **Twin Rotary DC inverter compressor and electronic expansion valve.**
- Fan with brushless motor and finned pack coil optimised for operation at outdoor air temperature of -25°C.
- Compact and extremely silent external unit with R32 gas.
- **Indoor unit with and without back up heater.**
- **Easy to use control panel with backlit display and multilingual menu.**
- Compact indoor unit: only 270 mm of depth.

## Wall hung split heat pumps

| | | | HEATING | | | | COOLING | | | | CLASS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CODE | DESCRIPTION | DIMENSIONS H x W x P (mm) | Floor system (1) | | Fan coils (2) | | Floor system (3) | | Fan coils (4) | | IIII (5) | IIII (6) |
| | | | Heating capacity (kW) | COP | Heating capacity (kW) | COP | Cooling capacity (kW) | EER | Cooling capacity (kW) | EER | | |
| **WITHOUT ON BOARD BACK UP HEATER** | | | | | | | | | | | | |
| 20205784 | SET EXCLUSIVE AGILE 4 KW M | 712 x 1008 x 426 (ODU) | 4,25 | 5,20 | 4,35 | 3,80 | 4,50 | 5,55 | 4,70 | 3,45 | A+++ | A++ |
| 20205786 | SET EXCLUSIVE AGILE 6 KW M | 712 x 1008 x 426 (ODU) | 6,20 | 5,00 | 6,35 | 3,75 | 6,55 | 4,90 | 7,00 | 3,00 | A+++ | A++ |
| 20205788 | SET EXCLUSIVE AGILE 8 KW M | 865 x 1118 x 523 (ODU) | 8,30 | 5,20 | 8,20 | 3,95 | 8,40 | 5,05 | 7,40 | 3,38 | A+++ | A++ |
| 20205791 | SET EXCLUSIVE AGILE 10 KW M | 865 x 1118 x 523 (ODU) | 10,00 | 5,00 | 10,00 | 3,80 | 10,00 | 4,80 | 8,20 | 3,30 | A+++ | A++ |
| 20205793 | SET EXCLUSIVE AGILE 12 KW M | 865 x 1118 x 523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |
| 20205800 | SET EXCLUSIVE AGILE 14 KW M | 865 x 1118 x 523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A+++ | A++ |
| 20205802 | SET EXCLUSIVE AGILE 16 KW M | 865 x 1118 x 523 (ODU) | 16,00 | 4,50 | 16,00 | 3,60 | 14,20 | 3,61 | 14,00 | 2,45 | A+++ | A++ |
| 20205804 | SET EXCLUSIVE AGILE 12 KW T | 865 x 1118 x 523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A+++ | A++ |

# EXCLUSIVE AGILE - WALL HUNG SPLIT HEAT PUMP

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| CODE | DESCRIPTION | DIMENSIONS H x W x P (mm) | HEATING | | | | COOLING | | | | CLASS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Floor system [1] | | Fan coils [2] | | Floor system [3] | | Fan coils [4] | | | |
| | | | Heating capacity (kW) | COP | Heating capacity (kW) | COP | Cooling capacity (kW) | EER | Cooling capacity (kW) | EER | ▥ [5] | ▥ [6] |
| 20205806 | SET EXCLUSIVE AGILE 14 KW T | 865 x 1118 x 523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A⁺⁺⁺ | A⁺⁺ |
| 20205809 | SET EXCLUSIVE AGILE 16 KW T | 865 x 1118 x 523 (ODU) | 16,00 | 4,50 | 16,00 | 3,60 | 14,20 | 3,61 | 14,00 | 2,45 | A⁺⁺⁺ | A⁺⁺ |
| **WITH ON BOARD BACK UP HEATER** | | | | | | | | | | | | |
| 20205785 | SET EXCLUSIVE AGILE 4 KW M BH | 712 x 1008 x 426 (ODU) | 4,25 | 5,20 | 4,35 | 3,80 | 4,50 | 5,55 | 4,70 | 3,45 | A⁺⁺⁺ | A⁺⁺ |
| 20205787 | SET EXCLUSIVE AGILE 6 KW M BH | 712 x 1008 x 426 (ODU) | 6,20 | 5,00 | 6,35 | 3,75 | 6,55 | 4,90 | 7,00 | 3,00 | A⁺⁺⁺ | A⁺⁺ |
| 20205789 | SET EXCLUSIVE AGILE 8 KW M BH | 865 x 1118 x 523 (ODU) | 8,30 | 5,20 | 8,20 | 3,95 | 8,40 | 5,05 | 7,40 | 3,38 | A⁺⁺⁺ | A⁺⁺ |
| 20205792 | SET EXCLUSIVE AGILE 10 KW M BH | 865 x 1118 x 523 (ODU) | 10,00 | 5,00 | 10,00 | 3,80 | 10,00 | 4,80 | 8,20 | 3,30 | A⁺⁺⁺ | A⁺⁺ |
| 20205794 | SET EXCLUSIVE AGILE 12 KW M BH | 865 x 1118 x 523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A⁺⁺⁺ | A⁺⁺ |
| 20205801 | SET EXCLUSIVE AGILE 14 KW M BH | 865 x 1118 x 523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A⁺⁺⁺ | A⁺⁺ |
| 20205803 | SET EXCLUSIVE AGILE 16 KW M BH | 865 x 1118 x 523 (ODU) | 16,00 | 4,50 | 16,00 | 3,60 | 14,20 | 3,61 | 14,00 | 2,45 | A⁺⁺⁺ | A⁺⁺ |
| 20205805 | SET EXCLUSIVE AGILE 12 KW T BH | 865 x 1118 x 523 (ODU) | 12,10 | 4,95 | 12,30 | 3,80 | 12,00 | 4,00 | 11,60 | 2,75 | A⁺⁺⁺ | A⁺⁺ |
| 20205807 | SET EXCLUSIVE AGILE 14 KW T BH | 865 x 1118 x 523 (ODU) | 14,50 | 4,70 | 14,20 | 3,65 | 13,50 | 3,61 | 12,70 | 2,55 | A⁺⁺⁺ | A⁺⁺ |
| 20205810 | SET EXCLUSIVE AGILE 16 KW T BH | 865 x 1118 x 523 (ODU) | 16,00 | 4,50 | 16,00 | 3,60 | 14,20 | 3,61 | 14,00 | 2,45 | A⁺⁺⁺ | A⁺⁺ |

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
(1) External air temperature 7°C DB, 6°C WB; water inlet/outlet 30/35°C.
(2) External air temperature 7°C DB, 6°C WB; 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) Seasonal energy efficiency class for average climate zone for 35 °C delivery temperature. Values comply with Regulation 811/2013.
(6) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature. Values comply with Regulation 811/2013.
Note: The sets marked with "BH" in the description are those in which the internal unit has an integrated resistance. In single-phase sets, the power of the integrated resistance, where present, is 3 kW, while in three-phase sets it is 9 kW.

## Set codes matching table

| DESCRIPTION | SET CODE | INTERNAL UNIT CODE | EXTERNAL UNIT CODE |
|---|---|---|---|
| **WITHOUT ON BOARD BACK UP HEATER** | | | |
| SET EXCLUSIVE AGILE 4 kW M | 20205784 | 20199007 | 20198986 |
| SET EXCLUSIVE AGILE 6 kW M | 20205786 | 20199007 | 20198987 |
| SET EXCLUSIVE AGILE 8 kW M | 20205788 | 20199009 | 20198988 |
| SET EXCLUSIVE AGILE 10 kW M | 20205791 | 20199009 | 20198990 |
| SET EXCLUSIVE AGILE 12 kW M | 20205793 | 20199010 | 20198991 |
| SET EXCLUSIVE AGILE 14 kW M | 20205800 | 20199010 | 20198992 |
| SET EXCLUSIVE AGILE 16 kW M | 20205802 | 20199010 | 20198993 |
| SET EXCLUSIVE AGILE 12 kW T | 20205804 | 20199010 | 20198994 |
| SET EXCLUSIVE AGILE 14 kW T | 20205806 | 20199010 | 20198995 |
| SET EXCLUSIVE AGILE 16 kW T | 20205809 | 20199010 | 20198996 |
| **WITH ON BOARD BACK UP HEATER** | | | |
| SET EXCLUSIVE AGILE 4 kW M BH | 20205785 | 20198980 | 20198986 |
| SET EXCLUSIVE AGILE 6 kW M BH | 20205787 | 20198980 | 20198987 |
| SET EXCLUSIVE AGILE 8 kW M BH | 20205789 | 20198981 | 20198988 |
| SET EXCLUSIVE AGILE 10 kW M BH | 20205792 | 20198981 | 20198990 |
| SET EXCLUSIVE AGILE 12 kW M BH | 20205794 | 20198982 | 20198991 |
| SET EXCLUSIVE AGILE 14 kW M BH | 20205801 | 20198982 | 20198992 |
| SET EXCLUSIVE AGILE 16 kW M BH | 20205803 | 20198982 | 20198993 |
| SET EXCLUSIVE AGILE 12 kW T BH | 20205805 | 20198985 | 20198994 |
| SET EXCLUSIVE AGILE 14 kW T BH | 20205807 | 20198985 | 20198995 |
| SET EXCLUSIVE AGILE 16 kW T BH | 20205810 | 20198985 | 20198996 |

## Accessories

| CODE | DESCRIPTION |
|---|---|
| 20117881 | IDRA DS 300 storage tank |
| 20117882 | IDRA DS 500 storage tank |
| 20117745 | IDRA HP 300 storage tank |
| 20117746 | IDRA HP 500 storage tank |
| 20204198 | IDRA C-HP 150 MS storage tank |
| 20204200 | IDRA C-HP 200 MS storage tank |

# EXCLUSIVE AGILE - WALL HUNG SPLIT HEAT PUMP

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| CODE | DESCRIPTION |
|---|---|
| 20204202 | IDRA C-HP 300 MS storage tank |
| 20204204 | IDRA C-HP 500 MS storage tank |
| 20171999 | 50-litre inertial buffer tank |
| 4383504 | Solar heat exchanger 0,8 m2 for IDRA HP 300 (2) |
| 4383505 | Solar heat exchanger for IDRA HP 500 (2) |
| 20203248 | Solar heat exchanger 0,8 m2 per C-HP 150-300 |
| 20203246 | Solar heat exchanger 1,2 m2 per C-HP 500 |
| 20203742 | 1" & 1 ¼" DHW diverting valve without temperature probe |
| 20175281 | 1" Y water filter (7) |
| 20193922 | REC10MH remote control |
| 4383270 | Single-phase electrical resistance 1,5 kW 1" 1/2 (2)(1) |
| 20020707 | Three-phase electrical resistance kit 3,8 kW 1" 1/2 (2) (1) |
| 20182272 | Single-phase electric heating element for DHW heater 2,2 kW (3) (6) (8) |
| 20182292 | 1PH-3PH 2-6 kW supplemental electric heating element (6) |
| 20194933 | Temperature probe for balance tank or zone 2 flow temperature or solar temperature |

(1) Mandatory in case of domestic hot water 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 REC10MH remote control.
(4) Accessory managed by the machine interface.
(5) It must be used in combination with the temperature probe included in the heat pump or with accessory
(6) The kit includes the three-way diverting valve for DHW with storage tank probe
(7) The corresponding filter is supplied with the product. If necessary, it must be used only for HYDRO UNIT M 004 and 006 models.
(8) Includes electrical power box and activation relay.
(9) The buffer tank cannot be installed horizontally under the heat pump

## Suggested cylinder and heat pump matching

| CYLINDER | | HEAT PUMP  EXCLUSIVE AGILE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 M | 6 M | 8 M | 10 M | 12 M | 14 M | 16 M | 12 T | 14 T | 16 T |
| CODE | MODEL | 20205784 | 20205786 | 20205788 | 20205791 | 20205793 | 20205800 | 20205802 | 20205804 | 20205806 | 20205809 |
| 20204198 | IDRA C-HP 150 MS | • | • | | | | | | | | |
| 20204200 | IDRA C-HP 200 MS | • | • | • | | | | | | | |
| 20204202 | IDRA C-HP 300 MS | • | • | • | • | • | | | • | | |
| 20204204 | IDRA C-HP 500 MS | | | | • | • | • | • | • | • | • | • |
| 20204206 | IDRA C-HP 800 MS | | | | | • | • | • | • | • | • |
| 20204208 | IDRA C-HP 1000 MS | | | | | | | | • | | • |

To select the correct size of the cylinder, please refer to the data in the technical sheet of the product and to the specific requirement of the system.
Note: Cylinders are compatible as in the above table also with split heat pump sets with back up heater on board.

WALL HUNG BOILERS  »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# PRODUCT MATRIX OF BERETTA CONDENSING WALL-HUNG BOILERS

**Beretta**

| PRODUCT | PRODUCT ENERGY CLASS | SYSTEM ENERGY CLASS | HEATING-ONLY MODELS (kW) | COMBI MODELS (kW) | DHW TANK TYPE | INSTALLATION MODE |
|---|---|---|---|---|---|---|
| **Exclusive Evo X** | A ‖‖‖  A XL | A+ with optional kit (6) | 25 35 | 25 30 35 | Instantaneous | Indoor Outdoor Built-in |
| Exclusive Boiler Green HE | A ‖‖‖  A XL | - | - | - - 35 | INOX 60 l | Indoor |
| **Mynute Evo X** | A ‖‖‖  A XL | A+ with optional kit (6) | 20 30 | 25 30 35 | Instantaneous | Indoor Outdoor Built-in |
| Mynute X Box | HYBRID READY / HYDROGEN READY 20% · A ‖‖‖  A XL | A+ with optional kit (4) | - 30 | 25 30 | Instantaneous | Indoor Outdoor Built-in |
| Mynute Boiler Green | A ‖‖‖  A XL | - | - | 25 32 - | INOX 45 l INOX 60 l - | Indoor |
| Ciao X | HYDROGEN READY 20% · A ‖‖‖  A XL | A+ with optional kit (4) | 15 25 | - 25 30 | Instantaneous | Indoor Outdoor Built-in (3) |
| **BLR** | HYDROGEN READY 20% · A ‖‖‖  A XL | - | - | 25 30 | Instantaneous | Indoor Outdoor Built-in (3) |
| Meteo X | HYBRID READY / HYDROGEN READY 20% · A ‖‖‖  A XL | A+ with optional kit (4) | - | 25 30 | Instantaneous | External boiler |

(1) Need 1 pc. of the Hi Control, Comfort T100 Wi-Fi (cod. 20193354) or 1 pc. of the Hi control, Comfort T100 (cod. 20193352) with 1 pc of the external temperature probe kit with connector (cod. 1220559)
(2) Required 1 pc. of the Command Hi, Comfort T100 (cod. 20193352)
(3) Combined boilers only
(4) Need 3 pcs. of the Hi Control, Comfort T100 (cod. 20193352) with 1 pc. of the external temperature probe kit with connector (COD. 1220559)
(5) Maximum development in length of the intubation (maximum value with Beretta smoke Ø50 class H1 or Ø60 class H1). The length is in addition to a split smoke and air line at the boiler outlet. Smoke: 4.5 m Ø80 + 1 curve Ø80 at 90°; Air: 4.5 m Ø80 + 1 curve Ø80 at 90°
(6) The system achieves class A+ in combination with T300 or T100.

**▶▶ NEW**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Condensing wall-hung

# PRODUCT MATRIX OF BERETTA CONDENSING WALL-HUNG BOILERS

**Beretta**

| DIMENSIONS H x W x D (mm) | REMOTE CONTROL | Internet management from smartphones and tablets | MODULATION RANGE | EXPANSION VESSEL (l) | CIRCULATOR HEAD | FLUE SYSTEM Ø50 (5) (m) | FLUE SYSTEM Ø60 (5) (m) |
|---|---|---|---|---|---|---|---|
| 740 x 420 x 275 | Hi, Comfort T100 (2) and T300 optional | Hi, Comfort T100(2) e T300 optional | fino a 1:13 | 9 | modulating up to 7 m | 28<br>11<br>11 | 74<br>34<br>34 |
| 950 x 600 x 450 | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi(1) optional | fino a 1:10 | -<br>-<br>10 | modulating, with 6m head, adjustable up to 7m | - | - |
| 740 x 420 x 275 | Hi, Comfort T100(2) and T300 optional | Hi, Comfort T100(2) e T300 optional | fino a 1:10 | 9 | modulating up to 6 m | 28<br>28<br>11<br>11 | 74<br>74<br>34<br>34 |
| 740 x 420 x 249<br>740 x 420 x 275 | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi(1) optional | fino a 1:8 | 8<br>9 | modulating up to 6 m | 27<br>21 | 63<br>53 |
| 950 x 600 x 450 | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi (1) optional | fino a 1:5 | 8<br>-<br>10 | modulating, with 6m head, adjustable up to 7m | - | - |
| 700 x 400 x 275<br>700 x 400 x 275<br>700 x 400 x 275 | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi (1) optional | fino a 1:8 | 8<br>8<br>8 | 6 m | 27<br>27<br>21 | 63<br>63<br>53 |
| 715 x 405 x 248<br>780 x 400 x 338<br>- | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi (1) optional | fino a 1:3 | 8 | 6 m | 27<br>21 | 63<br>53 |
| 740 x 420 x 275 | Hi, Comfort T100(2) optional | Hi, Comfort T100 Wi-Fi(1) optional | fino a 1:8 | 9<br>9 | modulating up to 7 m | 24<br>25 | 65<br>62 |

(1) Need 1 pc. of the Hi Control, Comfort T100 Wi-Fi (cod. 20193354) or 1 pc. of the Hi control, Comfort T100 (cod. 20193352) with 1 pc of the external temperature probe kit with connector (cod. 1220559)
(2) Required 1 pc. of the Command Hi, Comfort T100 (cod. 20193352)
(3) Combined boilers only
(4) Need 3 pcs. of the Hi Control, Comfort T100 (cod. 20193352) with 1 pc. of the external temperature probe kit with connector (COD. 1220559)
(5) Maximum development in length of the intubation (maximum value with Beretta smoke Ø50 class H1 or Ø60 class H1). The length is in addition to a split smoke and air line at the boiler outlet. Smoke: 4.5 m Ø80 + 1 curve Ø80 at 90°; Air: 4.5 m Ø80 + 1 curve Ø80 at 90°
(6) The system achieves class A+ in combination with T300 or T100.

# PRODUCT MATRIX OF BERETTA CONDENSING WALL-HUNG BOILERS

| | | | | MAXIMUM LENGTH (m) | | |
|---|---|---|---|---|---|---|
| **PRODOTTO** | | **TYPE B23 INSTALLATION 80 mm Exhaust Air intake in the environment** | **DOUBLE 80 mm Exhaust Air intake 80 mm** | **COAXIAL 60/100 VERTICAL** | **COAXIAL 60/100 HORIZZONTAL** | **COAXIAL 80/125** |
| **Exclusive Evo X** | | 120 (25 kW) 60 (30 kW) 60 (35 kW) | 69 + 69 (25 kW) 36 + 36 (30 kW) 36 + 36 (35 kW) | 11 (25 kW) 9 (30 kW) 9 (35 kW) | 10 (25 kW) 8 (30 kW) 8 (35 kW) | 25 (25 kW) 20 (30 kW) 20 (35 kW) |
| **Exclusive Boiler Green HE** | | 60 | 40 + 40 | 8,85 | 7,85 | 14,85 |
| **Mynute Evo X** | | 120 (20 kW) 120 (25 kW) 60 (30 kW) 60 (35 kW) | 69 + 69 (20 kW) 69 + 69 (25 kW) 36 + 36 (30 kW) 36 + 36 (35 kW) | 11 (20 kW) 11 (25 kW) 9 (30 kW) 9 (35 kW) | 10 (20 kW) 10 (25 kW) 8 (30 kW) 8 (35 kW) | 25 (20 kW) 25 (25 kW) 20 (30 kW) 20 (35 kW) |
| **Mynute X Box** | HYBRID READY | 48 (25 kW) 40 (30 kW) | 33 + 33 (25kW) 27 + 27 (30 kW) | 6,85 (25 kW) 5,85 (30 kW) | 5,85 (25 kW) 4,85 (30 kW) | 14 (25 kW) 12 (30 kW) |
| **Mynute Boiler Green** | | 60 (25 kW) 57 (32 kW) | 36 + 36 (25 kW) 35 + 35 (32 kW) | 8,85 | 7,85 | 14,85 |
| **Ciao X** | | 48 (15/25 kW) 40 (30 kW) | 33 + 33 (15/25 kW) 27 + 27 (30 kW) | 6,85 (15/25 kW) 5,85 (30 kW) | 5,85 (15/25 kW) 4,85 (30 kW) | 14 (15/25 kW) 12 (30 kW) |
| **Meteo X** | HYBRID READY | 48 (25 kW) 40 (30 kW) | 52 + 52 (25 kW) 45 + 45 (30 kW) | 11 (25 kW) 5,85 (30 kW) | 10 (25 kW) 4,85 (30 kW) | 25 (25 kW) 12 (30 kW) |

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HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

**Beretta**

# HEAD CURVES OF STANDARD AND HIGH HEAD CIRCULATING PUMPS

## EXCLUSIVE EVO X
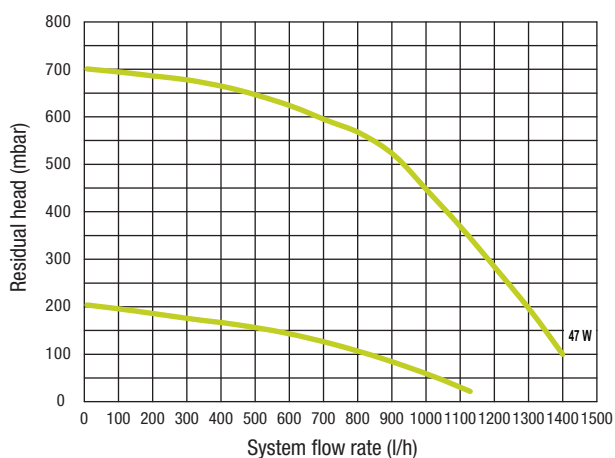


## EXCLUSIVE BOILER GREEN HE

Modulating circulator curve 6 meters standard
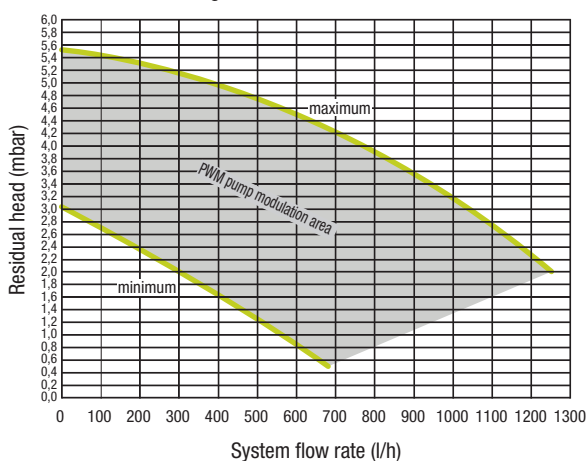


Modulating high head curve 7 meters (optional)
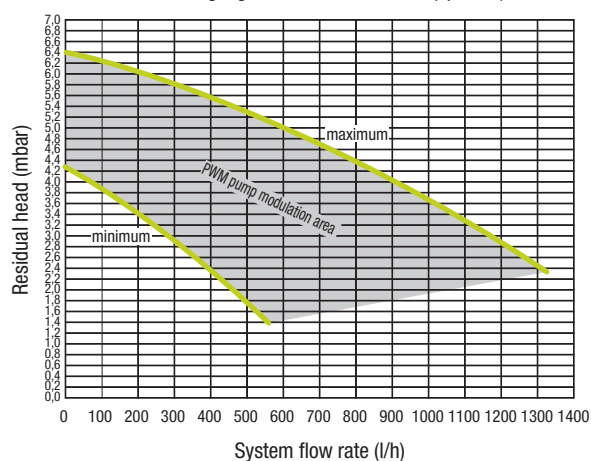


## MYNUTE EVO X
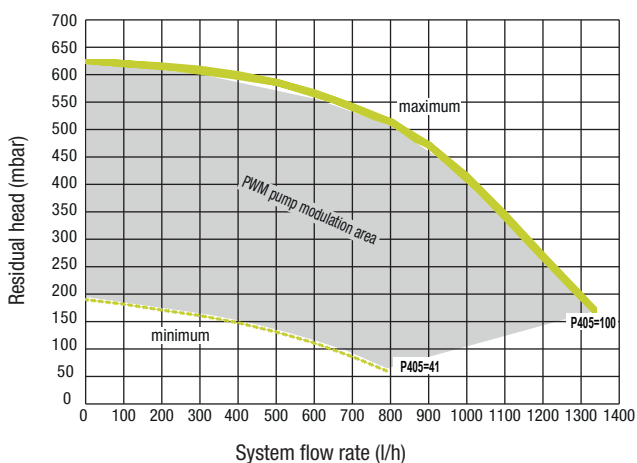
# HEAD CURVES OF STANDARD AND HIGH HEAD CIRCULATING PUMPS

## MYNUTE X BOX

### Head 6 meters

Residual head (mbar) vs System flow rate (l/h)

Maximum
PWM pump modulation area
Default 85
Minimum

### Head 7 meters (optional)

Residual head (mbar) vs System flow rate (l/h)

Maximum
PWM pump modulation area
Default 85
Minimum

## MYNUTE BOILER GREEN E (*)

### Head 6 meters

Residual head (mbar) vs System flow rate (l/h)

PWM pump modulation area

### Head 7 meters (optional)

Residual head (mbar) vs System flow rate (l/h)

PWM pump modulation area

## CIAO X

### Head 6 meters

Residual head (mbar) vs System flow rate (l/h)

### Head 7 meters (optional)

Residual head (mbar) vs System flow rate (l/h)

(*) According to the project requirements, it is possible to set curves with 4-5-7 m head.
Note: for the ranges of boilers not mentioned in the graphs above refer to the corporate website to download the instructions manuals.
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

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# HEAD CURVES OF STANDARD AND HIGH HEAD CIRCULATING PUMPS

**Beretta**

## BLR

### Head 6 meters

Residual head (mbar) vs System flow rate (l/h)

### Head 7 meters (optional)

Residual head (mbar) vs System flow rate (l/h)

# EXCLUSIVE EVO X

Beretta

**INTERAXES AND HYDRAULIC**

**COMBI BOILERS**

Supply Heating system | Gas | Return Heating system

M | U | G | E | R
65 | 65 | 68 | 65

DHW Out | DHM In

**HEATING ONLY BOILER**

Supply Heating system | Gas | Return Heating system

M | U | G | E | R
65 | 65 | 68 | 65

Tank Out | Tank In

- **High efficiency thanks to new-generation adaptive combustion control, extensive modulation and renewed exchangers**
- Excellent DHW comfort, quick set-point and temperature stability
- **Very high 1:13 modulation**
- IoT READY
- New advanced, full-colour and full-touch interface with guided user tour
- Elegant and compact design for easy integration into domestic environments
- **Hydraulic unit with standard DIN sequence connections for universal installation and replacement**
- Low noise level of up to 45 dB
- High-efficiency increased sanitary heat exchanger
- Prepared for integration into Beretta Hybrid Ready systems
- 9 litre expansion tank
- Designed to operate with mixtures of NATURAL GAS and HYDROGEN, up to a maximum of 20%.
- Low polluting emissions CLASS 6 (UNI EN 15502)

**HYBRID READY**  **ACC COMBUSTION**  **HYDROGEN READY 20%**

## Premix condensing

| CODE | GAS [1] | MODEL | DIMENSIONS H x W x D (mm) | CH INPUT DHW INPUT MIN - MAX (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) | ENERGY CLASS | |
|------|---------|-------|---------------------------|-----------------------------------|-------------------------------------|--------------|--------|
| **INSTANTANEOUS COMBI BOILERS** | | | | | | | |
| 20206141 | MTN/GPL | EXCLUSIVE EVO X 25C | 740 x 420 x 275 | 1,90 - 20,00 1,90 - 25,00 | 14,3 | A | A |
| 20206142 | MTN/GPL | EXCLUSIVE EVO X 30C | 740 x 420 x 275 | 2,70 - 25,00 2,70 - 30,00 | 17,2 | A | A |
| 20206143 | MTN/GPL | EXCLUSIVE EVO X 35C | 740 x 420 x 275 | 2,70 - 32,00 2,70 - 34,90 | 20,0 | A | A |
| **HEATING ONLY BOILERS** | | | | | | | |
| 20206144 | MTN/GPL | EXCLUSIVE EVO X 25R | 740 x 420 x 275 | 1,90 - 20,00 1,90 - 25,00 | - | A | - |
| 20206145 | MTN/GPL | EXCLUSIVE EVO X 35R | 740 x 420 x 275 | 2,70 - 32,00 2,70 - 34,90 | - | A | - |
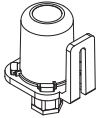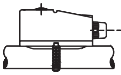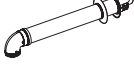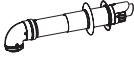
The "heating only" models are supplied with a three-ways valve. Filling tap not available.
(1) The LPG trasfornation kit is not necessary. Thanks to the new ACC combustion system, the gas commutation is via electronic setting.

■ ≫ NEW

| CODE | IMAGE | DESCRIPTION |
|------|-------|-------------|
| **IN- WALL INSTALLATION** | | |
| 20161604 | | In-wall installation unit [1] |
| 20191887 | | Crossbar for in-wall installation |
| **MECHANICAL ACCESSORIES** | | |
| 20190324 | | Air Filter [2] |
| 20191519 | | Hydraulic low fittings cover |
| 20209808 | | **Dummy boiler EXCLUSIVE EVO X 25 C** Dummy boiler for demonstration purposes (not working). Life size: 740 x 420 x 275 mm. Comes with Beretta screen-printed door casing, flue gas outlet, user interface display and boiler label. |
| **HYDRAULIC ACCESSORIES** | | |
| 20191518 | | Compact polyphosphate doser kit |
| 20191517 | | Compact magnetic filter |
| 20192808 | | Board BE09 with double multi-function relay [3] |
| 20097192 | | Condensate booster pump kit |
| 20210993 | | High residual pump 7,5 m |
| 20035644 | | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | | Well probe for remote heater (for heating only version) |
| 20133516 | | **Connection kit with heating system, domestic water and gas cocks (for combi models)** Kit containing: 2 cocks (flow and return), 1 gas cock, 1 DHW cock, 2 copper pipes (DHW inlet and outlet), 2 copper pipes (heating flow and return), 2 x 1/2" compression fittings, 2 x 3/4" compression fittings, 2 x 1/2" hexagonal nuts and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20133517 | | **Connection kit with heating system and gas cocks (for heating only models)** Kit containing: 2 cocks (flow and return), 1 gas cock, 2 copper pipes (heating flow and return), 2 x 3/4" compression fittings and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20132005 | | **Connection kit with domestic water and gas cocks (for combi models)** Kit containing: 1 gas cock, 1 DHW cock, 2 copper pipes (DHW inlet and outlet), 2 copper pipes (heating flow and return), 2 x 1/2" compression fittings, 2 x 3/4" compression fittings, 2 x 1/2" hexagonal nuts and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20133386 | | Connection kit with gas cock (for heating only models) |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| CODE | IMAGE | DESCRIPTION |
|------|-------|-------------|
| 20192806 |  | Flexible fittings for boiler replacement |
| **COMPLEMENTARY ACCESSORIES** | | |
| 20191888 |  | Antifreeze heaters -15 °C [4] |
| 1220559 |  | **External probe kit**<br>The external probe kit detects the outside temperature and activates the climate control programme. Wall mount and connect directly to the boiler board. External probe not required if the boiler is used with a Hi, Comfort T100 Wi-Fi thermostat |
| 1220639 |  | Limit thermostat for low temperature installations |
| **SPECIFIC FLUES** | | |
| 20203534 |  | Split connection system kit Ø80 mm |
| 20164664 |  | Ø80 mm clapet kit for pressurized collective flues |
| 20164662 |  | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 |  | Wall-hung collector Ø60/100 mm |
| 20129176 |  | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 |  | Vertical collector Ø60/100 mm |
| 20129174 |  | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 |  | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 |  | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 |  | Adaptor kit B23 Ø80 mm |

# EXCLUSIVE EVO X

Beretta

| CODE | IMAGE | DESCRIPTION |
|------|-------|-------------|
| 20129768 | | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |
| **ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS** | | |
| 20168672 | | Solar interface kit [7] |
| 20132795 | | First zone management kit (MIX or DIR zone) [7][8] |
| 20132796 | | Additional zone management kit (MIX or DIR zone) [7][8][9] |
| **DISTRIBUTION MODULES WITHOUT SEPARATOR** | | |
| 20130801 | | CONNECT HYBRID 1D MODULE [10][11] |
| 20130802 | | CONNECT HYBRID 2D MODULE [10][11] |
| 20130803 | | CONNECT HYBRID 1D+1M MODULE [10][12] |
| 20130808 | | IN- WALL INSTALLATION BOX [13] |
| 20131752 | | Taps kit for BAG3 HYBRID system side and heat pump |

(1) Unit supplied with door.
(2) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(3) Ideal board for managing additional circulator, alarm remote kit and zone valve.
(4) The antifreeze heater kit protects the DHW circuit from freezing where temperatures fall below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible)
(5) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(6)Code necessary for horizontal exhaust with flue system Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(7) Pair with Hi, Comfort T300
(8) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary if the Connect Hybrid kit is purchased.
(9) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.
(10) Supplied without built-in Box.
(11) Equipped as standard with limit thermostat for low temperature systems.
(12) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(13) Recessed wall box in galvanised sheet metal (can be painted white). Mandatory with CONNECT HYBRID.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Hi, Comfort controls for domestic comfort (*)

| CODE | IMAGE | DESCRIPTION |
|---|---|---|
| 20205322 | | Hi, Comfort T300 (1)(2)(3)(4) |
| 20134478 | | Alimentatore T300 - REC 10H |
| 20211852 | | Hi, Comfort T200 (5)(6) |
| 20193354 | | Hi, Comfort T100 Wi-Fi (7) |
| 20193352 | | Hi, Comfort T100 (8) |
| 20193355 | | Hi, Comfort G100-W |
| 20193356 | | Hi, Comfort G100-R |
| 20168501 | | Hi, Comfort K100 |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) Wi-fi as standard
(2) Compatible with heat pumps HYDRO UNIT M
(3) For lengths longer than 30m, add code 20134478
(4) Device provided with gateway
(5) Room thermostat for multi-room applications. Pair with Hi, Comfort T300
(6) Hi, Comfort T200 paired with Hi, Comfort T300 in RF. enables zone management.
(7) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(8) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

■ ≫ NEW

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi wall-hung boilers with built-in DHW tank

# EXCLUSIVE BOILER GREEN HE

**Beretta**

**WHILE STOCKS LAST**

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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## Premix condensing

| CODE | GAS | MODEL | DIMENSIONS H x W x 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 x 600 x 450 | 2,50 - 25,00 | 60 | A | A |
| 20031609 | NG | EXCLUSIVE BOILER GREEN HE 35 B.S.I. | 940 x 600 x 450 | 3,50 - 34,60 | 60 | A | A |

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi (1) |
| 20193352 | Thermostat Hi, Comfort T100 (2) |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## 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 |
| **Hydraulic accessories** | |
| 1101999 | Heating taps with filter |
| 1103479 | DHW recirculation kit |
| 20097192 | Condensate pump |
| **Special accessories** | |
| 1220639 | Limit thermostat for low temperature applications |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Wall-hung condensing boilers
# MYNUTE EVO X

**Beretta**

**INTERAXES AND HYDRAULIC**

COMBI BOILERS

Supply **Heating system** — **Gas** — Return **Heating system**

(M) (U) (G) (E) (R)

65 — 65 — 68 — 65

**DHW** Out — **DHM** In

HEATING ONLY BOILER

Supply **Heating system** — **Gas** — Return **Heating system**

(M) (U) (G) (E) (R)

65 — 65 — 68 — 65

**Tank** Out — **Tank** In

HYBRID READY

ACC COMBUSTION

HYDROGEN READY 20%

- **Stainless steel primary heat exchanger, robust and high efficiency**
- Combined and heating-only models, indoor, built-in and in partially protected locations
- **High modulation 1:10**
- Internet connection via the Hi, Comfort platform
- **Hydraulic unit** with sequence standard **DIN connections**
- Digital HMI: touch display, icons and multilingual texts
- Low noise up to 45 dB
- Increased DHW production with high performance sanitary heat exchanger
- Next-generation self-adaptive combustion control
- Compatible with Beretta Hybrid Ready systems
- **Gas transformation (Propane Air, LPG) selectable with electronic parameter**
- 9 litre expansion tank
- It has been designed to work with mixtures of NATURAL GAS and HYDROGEN, up to a maximum of 20%
- Low polluting emissions CLASS 6 (UNI EN 15502)
- Flues can be ducted with PP pipes (Ø60 and Ø50)
- Template supplied

## Premix condensing

| CODE | GAS [1] | MODEL | DIMENSIONS H x W x D (mm) | CH INPUT DHW INPUT MIN - MAX (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) | ENERGY CLASS |||
|---|---|---|---|---|---|---|---|
| | | | | | | ▯▯▯▯ | XL |
| **INSTANTANEOUS COMBI BOILERS** ||||||||
| 20205312 | NG/LPG | MYNUTE EVO X 25 C | 740 x 420 x 275 | 2,50 - 20,00 2,50 - 25,00 | 14,3 | A | A |
| 20205313 | NG/LPG | MYNUTE EVO X 30 C | 740 x 420 x 275 | 3,00 - 25,00 3,00 - 30,00 | 17,2 | A | A |
| 20205314 | NG/LPG | MYNUTE EVO X 35 C | 740 x 420 x 275 | 3,50 - 30,00 3,50 - 34,90 | 20,0 | A | A |
| **HEATING ONLY BOILERS** ||||||||
| 20205315 | NG/LPG | MYNUTE EVO X 20 R (2) | 740 x 420 x 275 | 2,50 - 20,00 2,50 - 20,00 | - | A | - |
| 20205316 | NG/LPG | MYNUTE EVO X 30 R (2) | 740 x 420 x 275 | 3,50 - 30,00 3,50 - 34,90 | - | A | - |
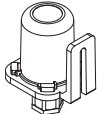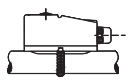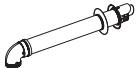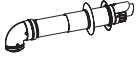
The "heating only" models are supplied with a three-ways valve. Filling tap not available.
(1) The LPG trasfornation kit is not necessary. Thanks to the new ACC combustion system, the gas commutation is via electronic setting.
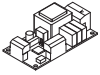
| CODE | IMAGE | DESCRIPTION |
|------|-------|-------------|
| **IN- WALL INSTALLATION** | | |
| 20161604 | | In-wall installation unit [1] |
| 20191887 | | Crossbar for in-wall installation |
| **MECHANICAL ACCESSORIES** | | |
| 20190324 | | Air Filter [2] |
| 20191519 | | Hydraulic low fittings cover |
| 20209805 | | **Dummy boiler MYNUTE EVO X**<br>Dummy boiler for demonstration purposes (not working). Life size: 740 x 420 x 275 mm. Comes with Beretta screen-printed door casing, flue gas outlet, user interface display and boiler label. |
| **HYDRAULIC ACCESSORIES** | | |
| 20191518 | | Compact polyphosphate doser kit |
| 20191517 | | Compact magnetic filter |
| 20192808 | | Board BE09 with double multi-function relay [3] |
| 20097192 | | Condensate booster pump kit |
| 20210993 | | High residual pump 7,5 m |
| 20035644 | | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | | Well probe for remote heater (for heating only version) |
| 20133516 | | **Connection kit with heating system, domestic water and gas cocks (for combi models)**<br>Kit containing: 2 cocks (flow and return), 1 gas cock, 1 DHW cock, 2 copper pipes (DHW inlet and outlet), 2 copper pipes (heating flow and return), 2 x 1/2" compression fittings, 2 x 3/4" compression fittings, 2 x 1/2" hexagonal nuts and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20133517 | | **Connection kit with heating system and gas cocks (for heating only models)**<br>Kit containing: 2 cocks (flow and return), 1 gas cock, 2 copper pipes (heating flow and return), 2 x 3/4" compression fittings and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20132005 | | **Connection kit with domestic water and gas cocks (for combi models)**<br>Kit containing: 1 gas cock, 1 DHW cock, 2 copper pipes (DHW inlet and outlet), 2 copper pipes (heating flow and return), 2 x 1/2" compression fittings, 2 x 3/4" compression fittings, 2 x 1/2" hexagonal nuts and 2 x 3/4" hexagonal nuts. Complete with a set of flat gaskets. |
| 20133386 | | Connection kit with gas cock (for heating only models) |

# MYNUTE EVO X

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| CODE | IMAGE | DESCRIPTION |
|---|---|---|
| 20192806 |  | Flexible fittings for boiler replacement |

**COMPLEMENTARY ACCESSORIES**

| CODE | IMAGE | DESCRIPTION |
|---|---|---|
| 20191888 |  | Antifreeze heaters -15 °C [4] |
| 1220559 |  | **External probe kit**<br>The external probe kit detects the outside temperature and activates the climate control programme. Wall mount and connect directly to the boiler board. External probe not required if the boiler is used with a Hi, Comfort T100 Wi-Fi thermostat |
| 1220639 |  | Limit thermostat for low temperature installations |

**SPECIFIC FLUES**

| CODE | IMAGE | DESCRIPTION |
|---|---|---|
| 20203534 |  | Split connection system kit Ø80 mm |
| 20164664 |  | Ø80 mm clapet kit for pressurized collective flues |
| 20164662 |  | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 |  | Wall-hung collector Ø60/100 mm |
| 20129176 |  | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 |  | Vertical collector Ø60/100 mm |
| 20129174 |  | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 |  | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 |  | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 |  | Adaptor kit B23 Ø80 mm |

| CODE | IMAGE | DESCRIPTION |
|------|-------|-------------|
| 20129768 | | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |
| **ADVANCED ENVIRONMENT CONTROL EXPANSION BOARDS** | | |
| 20168672 | | Solar interface kit [7] |
| 20132795 | | First zone management kit (MIX or DIR zone) [7][8] |
| 20132796 | | Additional zone management kit (MIX or DIR zone) [7][8][9] |
| **DISTRIBUTION MODULES WITHOUT SEPARATOR** | | |
| 20130801 | | CONNECT HYBRID 1D MODULE [10][11] |
| 20130802 | | CONNECT HYBRID 2D MODULE [10][11] |
| 20130803 | | CONNECT HYBRID 1D+1M MODULE [10][12] |
| 20130808 | | IN- WALL INSTALLATION BOX [13] |
| 20131752 | | Taps kit for BAG3 HYBRID system side and heat pump |

(1) Unit supplied with door.
(2) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(3) Ideal board for managing additional circulator, alarm remote kit and zone valve.
(4) The antifreeze heater kit protects the DHW circuit from freezing where temperatures fall below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible)
(5) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(6)Code necessary for horizontal exhaust with flue system Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(7) Pair with Hi, Comfort T300
(8) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary if the Connect Hybrid kit is purchased.
(9) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.
(10) Supplied without built-in Box.
(11) Equipped as standard with limit thermostat for low temperature systems.
(12) Mixed zone equipped as standard with limit thermostat for low temperature systems.
(13) Recessed wall box in galvanised sheet metal (can be painted white). Mandatory with CONNECT HYBRID.

| | | |
|---|---|---|

## Hi, Comfort controls for domestic comfort (*)

| CODE | IMAGE | DESCRIPTION |
|---|---|---|
| 20205322 | | Hi, Comfort T300 (1)(2)(3)(4) |
| 20134478 | | T300 - REC 10H Power supply unit |
| 20211852 | | Hi, Comfort T200 (5)(6) |
| 20193354 | | Hi, Comfort T100 Wi-Fi (7) |
| 20193352 | | Hi, Comfort T100 (8) |
| 20193355 | | Hi, Comfort G100-W |
| 20193356 | | Hi, Comfort G100-R |
| 20168501 | | Hi, Comfort K100 |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) Wi-fi as standard.
(2) Compatible with heat pumps HYDRO UNIT M.
(3) For lengths longer than 30m, add code 20134478.
(4) Device provided with gateway.
(5) Room thermostat for multi-room applications. Pair with Hi, Comfort T300.
(6) Hi, Comfort T200 paired with Hi, Comfort T300 in RF. enables zone management.
(7) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(8) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

■ ≫ NEW

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- **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** (EEI ≤ 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 Hi, Comfort 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.

**INTERAXES AND HYDRAULIC FITTINGS POSITIONING**

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

## Premix condensing

| CODE | GAS (1) | MODEL | DIMENSIONS H x W x D (mm) | CH INPUT DHW INPUT MIN - MAX (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) | ENERGY CLASS | XL |
|---|---|---|---|---|---|---|---|
| **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 | 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".

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi (1) |
| 20193352 | Thermostat Hi, Comfort T100 (2) |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## 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 |
| 20191517 | Kit magnetic filter (compact) |
| 20191518 | Kit polyphosphates dispenser (compact) |
| **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"

■ ≫ NEW

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# MYNUTE BOILER GREEN

WHILE STOCKS LAST

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

| Central heating | | Gas | | Domestic water | | |
|---|---|---|---|---|---|---|
| R | F | G | O | RC | I | |
| 65 | 85 | 108 | 90 | 90 | | |
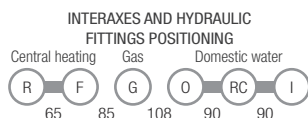
■ **Built-in stainless steel DHW tank with magnesium anode** (capacity: 45 lt. on 25 B.S.I. E; 60 lt. on 35 B.S.I. E)

■ **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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## Premix condensing

| CODE | GAS | MODEL | DIMENSIONS H x W x 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 x 600 x 450 | 6,00 - 25,00 6,00 - 25,00 | 45 | A | A |
| 20142457 | NG | MYNUTE BOILER GREEN 35 B.S.I. E | 940 x 600 x 450 | 3,50 - 34,60 3,50 - 34,60 | 60 | A | A |

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|---|---|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

**(*)** Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
**(1)** With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
**(2)** For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).
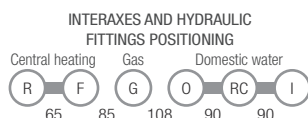
■ **›› NEW**

## 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 |
| 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# Combi and 'heating-only' wall-hung boilers condensing boilers
## CIAO X

<span style="float:right">⌾ **Beretta**</span>

- New **stainless steel primary heat exchanger**, compact and robust, and **high-efficiency sanitary exchanger** developed by Beretta
- Easy installation, easy integration even in small spaces and easy replacement, thanks to a **wide range of accessories** optionally available
- Modern and intuitive **touchscreen HMI**, with representative icons and capacitive buttons with acoustic "buzzer" to confirm
- **Modulation ratio 1:8** and **93% seasonal efficiency**
- 8 litre lateral expansion tank
- **Hydraulic unit** with sequence standard **DIN connections**
- Compact dimensions **700x400x275 mm** and **low lifting weight**
- New flue flange with dedicated flue system
- Temperature control as standard in combination with the external probe, available as an accessory
- Designed to operate with mixtures of **natural gas and hydrogen**, up to a maximum of **20%**.
- **Natural gas** operation as standard with possibility of **conversion to LPG** (G31) and propane air through accessories. This modification must be carried out by the installer or by the technical assistance service
- Easy maintenance and cleaning of the combustion chamber thanks to **frontal access to the exchanger**
- IPX5D electrical protection
- Class 6 Nox

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating | Gas | Domestic water

F — O | G | I — R
65 | 65 | 68 | 65

HYDROGEN READY 20%

## Premix condensing

| CODE | GAS | MODEL | DIMENSIONS H x W x D (mm) | CH INPUT DHW INPUT MIN - MAX (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) | ENERGY CLASS 🔥 | ENERGY CLASS 🚿 XL |
|---|---|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | | | |
| 20187761 | NG | CIAO X 25C | 700 x 400 x 275 | 3.10 - 20.00 3.10 - 25.00 | 14.3 | A | A |
| 20187764 | LPG | CIAO X 25C | 700 x 400 x 275 | 3.10 - 20.00 3.10 - 25.00 | 14.3 | A | A |
| 20187765 | NG | CIAO X 30C | 700 x 400 x 275 | 3.95 - 25.00 3.95 - 30.00 | 17.2 | A | A |
| **HEATING ONLY BOILERS** | | | | | | | |
| 20187766 | NG | CIAO X 15R | 700 x 400 x 275 | 3.10 - 15.00 3.10 - 25.00 | - | A | - |
| 20187767 | NG | CIAO X 25R | 700 x 400 x 275 | 5.00 - 20.00 5.00 - 25.00 | - | A | - |

## Specific accessories for IN-WALL installation

| CODE | DESCRIPTION | DIMENSIONS H x W x D (mm) |
|---|---|---|
| 20161604 | IN-WALL installation unit (A) | 1223 x 654 x 255 (A) |
| 20191887 | Crossbar for IN-WALL installation | - |

(A) Unit supplied with door.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Combi and 'heating-only' wall-hung boilers condensing boilers
# CIAO X

🔲 **Beretta**

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| **Hydraulic accessories** | |
| 20191518 | Compact polyphosphate doser kit |
| 20191517 | Compact magnetic filter |
| 20189142 | High residual pump 7M |
| 20192808 | Board BE09 with double multi-function relay [1] |
| 20097192 | Condensate booster pump kit |
| 20035644 | Solar diverter valve kit for instant wall-hung combined boilers |
| 1220599 | Well probe for remote heater (for heating only version) |
| 20133516 | Connection kit with heating system, domestic water and gas cocks (for combi models) |
| 20133517 | Connection kit with heating system and gas cocks (for heating only models) |
| 20132005 | Connection kit with domestic water and gas cocks (for combi models) |
| 20133386 | Connection kit with gas cock (for heating only models) |
| 20192806 | Flexible fittings for boiler replacement |
| **Mechanical accessories** | |
| 20190324 | Air Filter [2] |
| 20191519 | Hydraulic low fittings cover |
| 20191884 | Dummy boiler Ciao X 25C |
| 20191891 | Wall mounting frame 1 pc. |
| 20191892 | Wall mounting frame 5 pcs. |
| **Complementary accessories** | |
| 20191888 | Antifreeze heaters -15 °C [3] |
| 1220559 | External probe kit |
| 1220639 | Limit thermostat for low temperature installations |
| 20191520 | Building site kit with analogue hydrometer [4] |
| **Flues** | |
| 20164664 | Ø80 mm clapet kit for pressurized collective flues |
| 20164662 | Ø80/125 mm concentric clapet kit for pressurized collective flues |
| 20129175 | Wall-hung collector Ø60/100 mm |
| 20129176 | Telescopic wall-hung collector Ø60/100 mm |
| 20129177 | Vertical collector Ø60/100 mm |
| 20129174 | Vertical connection stub pipe kit Ø60/100 mm [5] |
| 20129172 | 90° bend kit Ø60/100 mm for boiler start [6] |
| 20134830 | Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20129769 | Adaptor kit B23 Ø80 mm |
| 20129768 | Splitter device kit B23 Ø80 mm for in-wall installation box |
| 20190475 | Compact adjustable splitter device kit from 60/100 mm to 80/80 mm |

| CODE | DESCRIPTION |
|------|-------------|
| 20129765 | Fixed split system kit Ø80 mm |
| 20194628 | Ø60/100 mm PP/PPu - Short flue terminal kit [7] |

(1) Ideal board for managing additional circulator, alarm remote kit and zone valve.
(2) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(3) The antifreeze heater kit protects the DHW circuit from freezing where temperatures fall below 0°C (down to -15°C), using the copper fitting accessory kits (not flexible)
(4) Code necessary for horizontal exhaust with flue system Ø60/100 mm.
(5) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.
(6)Code necessary for horizontal exhaust with flue system Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(7) Minimum order quantity 50 pcs

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |
| 20168501 | Smart key Hi, Comfort K100 |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

Combi wall-hung boilers condensing boilers
# BLR

**Beretta**

HYDROGEN
READY
20%

**INTERAXES AND HYDRAULIC**

COMBI BOILERS

| System | | Gas | DHW | |
| M | U | G | E | R |
| 65 | 65 | 68 | 65 | |

HEATING ONLY BOILER

| System | Tank | Gas | Tank | System |
| M | U | G | E | R |
| 65 | 65 | 68 | 65 | |

- New stainless steel primary heat exchanger, compact and robust
- Easy installation, easy integration even in small spaces and easy replacement, thanks to a wide range of accessories optionally available
- Hydraulic unit with sequence standard DIN connections
- Designed to operate with mixtures of natural gas and hydrogen, up to a maximum of 20%.
- New flue flange with dedicated flue system
- Temperature control as standard in combination with the external probe, available as an accessory
- Natural gas operation as standard with possibility of conversion to LPG (G31) and propane air through accessories. This modification must be carried out by the installer or by the technical assistance service
- Easy maintenance and cleaning of the combustion chamber thanks to frontal access to the exchanger
- IPX5D electrical protection
- Class 6 Nox

## Premix condensing

| CODE | GAS | MODEL | DIMENSIONS H x L x P (mm) | CH INPUT DHW INPUT MIN - MAX (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) | ENERGY CLASS | XL |
|------|-----|-------|---------------------------|-----------------------------------|-------------------------------------|--------------|-----|
| **COMBINATE ISTANTANEE** | | | | | | | |
| 20213289 | NG | BLR 25C | 700 x 400 x 275 | 3,1-20,0 / 3,1-25,0 | 14,3 | A | A |
| 20213290 | LPG | BLR 25C | 700 x 400 x 275 | 3,1-20,0 / 3,1-25,0 | 14,3 | A | A |
| 20216034 | NG | BLR 30C | 700 x 400 x 275 | 3,95-25 / 3,95-30 | 17,2 | A | A |

Pallet: 6 pieces

## Specific accessories for IN-WALL installation

| CODE | DESCRIPTION | DIMENSIONS H x W x D (mm) |
|------|-------------|---------------------------|
| 20161604 | IN-WALL installation unit (*) | 1223 x 654 x 255 (+26) |
| 20191887 | Crossbar for IN-WALL installation | |

(*) Unit supplied with door.

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| **Hydraulic accessories** | |
| 20191518 | Compact polyphosphate doser kit |
| 20191517 | Compact magnetic filter |
| 20189142 | High residual pump 7M |
| 20192806 | Crossover kit DIN vs Beretta [2] |
| 20133516 | Wall-mounted hydraulic connections and heating, gas and DHW taps kit for combi boilers [3] |
| 20132005 | Wall-mounted hydraulic connections and gas tap kit for combi boilers [5] |
| 20097192 | Condensate pump |
| 20035644 | Solar diverter mixing valve |
| **Mechanical accessories** | |
| 20190324 | Air filter [7] |
| 20191519 | Hydraulic low fittings cover |
| 20191891 | Wall mounting frame 1 pc. |
| 20191892 | Wall mounting frame 5 pcs. |
| **Complementary accessories** | |
| 1220559 | Outdoor probe with connector |
| 20191888 | Antifreeze heaters -15°C |
| 20192808 | Board BE09 with double multi-function relay [8] |
| 20191520 | Building site kit with analogue hydrometer [9] |
| 1220639 | Limit thermostat for low temperature applications |
| 20191883 | MODBUS control Kit |
| **Flues** | |
| 20164664 | Ø80 mm clapet with condensate trap |
| 20164662 | Ø80/125 mm clapet with condensate trap |
| 20129175 | Ø60/100 mm horizontal flue terminal kit with 90° reduced concentric bend |
| 20129176 | Ø60/100 mm telescopic horizontal flue terminal kit with 90° reduced concentric bend |
| 20129177 | Ø60/100 mm vertical flue terminal kit with vertical adapter |
| 20129174 | Ø60/100 mm vertical adapter kit [10] |
| 20129172 | Ø60/100 mm - 90° reduced concentric bend kit [9] |
| 20134830 | Flue adapter kit from Ø60/100 mm to Ø80+80 mm (air inlet swelling position) |
| 20129768 | Flue adapter kit from Ø60/100 mm to Ø80 mm (for type B23 installation) and air inlet |
| 20129769 | Vertical flue adapter kit from Ø60/100 mm to Ø80 mm (for type B23 installation) for outdoor |
| 20190475 | Compact swelling kit Ø60/100 mm - Ø80/80 mm |

(1) Minimum order quantity 50 pcs.
(2) Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Ciao X boilers with previous boilers with Beretta standard hydraulic connection sequence.
(3) Kit consists of n.2 taps (flow and return), n.1 gas tap, n.1 domestic water tap, n.2 copper ramps (DHW inlet and outlet), n.2 copper ramps (flow and return), n.2 1/2" compression fittings, n.2 3/4" compression fittings, n.2 1/2" hexagonal nuts, n.2 3/4" hexagonal nuts, set of seals.
(4) Kit consists of n.2 taps (flow and return), n.1 gas tap, n.2 copper ramps (flow and return), n.2 3/4" compression fittings, n.2, n.2 3/4" hexagonal nuts, set of seals.
(5) Kit consists of n.1 gas tap, n.1 domestic water tap, n.2 copper ramps (DHW inlet and outlet), n.2 copper ramps (flow and return), n.2 1/2" compression fittings, n.2 3/4" compression fittings, n.2 1/2" hexagonal nuts, n.2 3/4" hexagonal nuts, set of seals.
(6) Kit consists of n.1 gas tap, n.2 copper ramps (flow and return), n.2 3/4" compression fittings, n.2 3/4" hexagonal nuts, set of seals.
(7) Ideal to avoid introducing impurities from the intake air into the exchanger and burner.
(8) Ideal board for managing additional circulator, alarm remote kit and zone valve.
(9) Code necessary for horizontal exhaust with flue system Ø60/100 mm.
(10) Code necessary for vertical exhaust with flue system. Accessory already included in kit 20129177.

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |
| 20168501 | Smart key Hi, Comfort K100 |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

**BLUEDGE**

**HYBRID READY**

**HYDROGEN READY 20%**

INTERAXES AND FITTINGS POSITIONING
COMBINED BOILERS

Heating system    Gas    Domestic water

| R | M | G | U | E |
| 65 | 120 | 60 | 55 |

- **Layout with electro-galvanized and zinc-magnesium finishes specifically for outdoor installation, top and bottom covers provided as standard**
- **Frost protection up to -15°C as standard, electrical protection rating IPX5D**
- Stainless steel primary condensing heat exchanger with front accessibility, smooth tube with high section and geometry with a single coil wound
- Native Hybrid Ready system with color REC10 MH remote control panel supplied as standard
- **Low consumption modulating circulator (EEI ≤ 0,20) with 7m head curve**
- **9 liter side expansion tank**
- 1:8 modulation ratio
- Arranged to operate with mixtures of natural gas and hydrogen, up to a maximum 20% (in line with environmental sustainability goals and the decarbonization pathway initiated by the European Union)
- **C10 certification: possibility of installation in pressurized collective flues via optionally available clapet non-return valve [1]**
- Easy plant loading system
- Hydraulic group with Beretta connection sequence, ideal for replacement
- 93% seasonal efficiency
- LPG and Propane or Propane Air conversion kits available. For gas conversion, contact authorized Beretta Technical Service Centers

(1) METEO X is C10 certified in case of natural gas operation

## Premixed condensing boiler

| CODE | MODEL | DIMENSION H x L x P (mm) | CH INPUT DHW INPUT Min - Max (kW) | DHW PRODUCTION (l/min-Δt 25°C) | CLASS | |
|---|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | | |
| 20191298 | METEO X 25C | 740 x 420 x 275 | 3,1-20/3,1-25 | 14,3 | A | A |
| 20191299 | METEO X 30C | 740 x 420 x 275 | 3,95-25/3,95-30 | 17,2 | A | A |

# METEO X

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

## Accessories

| CODE | DESCRIPTION |
|---|---|
| **MECHANICAL ACCESSORIES** | |
| 20190324 | **Air filter** |
| **HYDRAULIC ACCESSORIES(*)** | |
| 20132005 | **Wall-mounted hydraulic connections and gas tap kit for combi boilers**<br>Kit consists of n.1 gas tap, n.1 domestic water tap, n.2 copper ramps (DHW inlet and outlet), n.2 copper ramps (flow and return), n.2 1/2" compression fittings, n.2 3/4" compression fittings, n.2 1/2" hexagonal nuts, n.2 3/4" hexagonal nuts. A set of seals completes the kit. |
| 20133516 | **Wall-mounted hydraulic connections and heating, gas and DHW taps kit for combi boilers**<br>Kit consists of n.2 taps (flow and return), n.1 gas tap, n.1 domestic water tap, n.2 copper ramps (DHW inlet and outlet), n.2 copper ramps (flow and return), n.2 1/2" compression fittings, n.2 3/4" compression fittings, n.2 1/2" hexagonal nuts, n.2 3/4" hexagonal nuts. A set of seals completes the kit. |
| 20035644 | Solar diverter mixing valve kit |
| 20192806 | Flexible fittings kit for conversion DIN vs Beretta[1] |
| 20191517 | Compact magnetic water filter kit |
| 20191518 | Compact polyphosphate doser kit |
| **FLUE GAS DISCHARGE ACCESSORIES** | |
| 20164662 | Concentric clapet kit Ø80 mm for pressurized collective flues |
| 20164664 | Clapet kit Ø80 mm for pressurized collective flues |
| 20134830 | Split system kit with variable position air inlet |
| 20129172 | 90° lowered bend kit Ø60/100 mm for boiler start [2] |
| 20129174 | Ø60/100 mm vertical adapter kit [3] |
| 20129175 | Ø60/100 mm horizontal flue terminal kit [3] |
| 20129176 | Ø60/100 mm telescopic terminal kit |
| 20129177 | Ø60/100 mm vertical terminal kit |
| 20129765 | Split system kit Ø80 mm [4] |
| 20129768 | B23 split flue discharge adapter Ø80 mm with air inlet [4] |
| 20129769 | B23 flue discharge adapter from Ø60/100 to Ø80 mm with air intake |

| CODE | DESCRIPTION |
|------|-------------|
| **COMPLEMENTARY ACCESSORIES** | |
| 1220559 | **Outdoor temperature probe kit with connector**<br>The outdoor probe kit allows the outdoor temperature to be detected and the climatic modulation program to be activated. It can be installed on the wall and connected directly into the board present in the boiler. External probe not required if the boiler is combined with Hi, Comfort T100 control (class A+ system). Necessarily to be provided in the case of hybrid systems with the boiler for the management of energy sources operating methods. |
| 1220639 | Limit thermostat for low temperature applications |
| 20192808 | Board BE09 with double multi-function relay |
| 20097192 | **Condensate booster pump kit**<br>Piston pump with integrated tank (0.37 liters) specifically designed to evacuate acidic condensates. Kit consisting of n. 1 piston pump, n. 1 integrated detection block, n. 1 connecting cable L=1.5m, n. 2 wires for power supply, n. 2 wires for safety alarm counter, wall mounting support |
| 20132795 | Control of first DIR/MIX zone [C] |
| 20132796 | Control of second/third DIR/MIX zone [C][D] |

(1) Flexible connections (sanitary, gas and heating) kit required to facilitate the replacement of Meteo X boilers with previous boilers with DIN standard hydraulic connection sequence.
(2) Code necessary for horizontal exhaust with flue system Ø60/100 mm. Accessory already included in kits 20129175 and 20129176.
(3) Code required in case of vertical exhaust with flue. Accessory already included in kit 20129177.
(4) Compatible flue accessories in case of removing the top cover and installing the boiler not in the open.
(C ) Allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary if the Connect Hybrid kit is purchased.
(D) The first zone management kit must always be present. The boiler can manage up to 3 zones in total.
(*) Note: accessories not supplied with boilers

## Hi, Comfort controls for managing domestic comfort

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) With connection via BUS.
(**) In on/off management.

Combi and 'heating only' wall-hung boilers

# EXCLUSIVE MIX

**Beretta**

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

Central heating | Gas | Domestic water

R  F  G  O  I
65  120  60  55
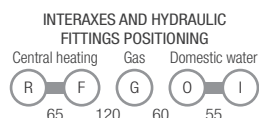
- Air/gas electronic combustion control = constant efficiency.
- Automatic room-temperature adjustment system (S.A.R.A. Booster).
- User-friendly and intuitive digital back-lit display.
- Easy filling system directly from the panel.
- "Comfort" functions.
- IPX5D electrical protection.
- Built-in thermoregulation (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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 1150343 | NG | EXCLUSIVE MIX 26 C.S.I. | 805 x 400 x 332 | 26.00 | 15,0 |
| 1150673 (*) | NG | EXCLUSIVE MIX 30 C.S.I. | 805 x 450 x 332 | 30.00 | 17,4 |
| 1150383 (*) | NG | EXCLUSIVE MIX 35 C.S.I. | 805 x 500 x 332 | 35.00 | 20,2 |
| **HEATING ONLY BOILERS** | | | | | |
| 1150353 (*) | NG | EXCLUSIVE MIX 30 R.S.I. | 805 x 450 x 332 | 30.00 | - |
| 20029161 (*) | NG | EXCLUSIVE MIX 35 R.S.I. | 805 x 500 x 332 | 35.00 | - |

(*) While stocks last

The "heating only" models is supplied with a three-ways valve. Filling tap not available.
Note: models available only for RUSSIA & CIS Countries.

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

**(*)** Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
**(1)** With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
**(2)** For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## Other accessories

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|------|-------------|------|-------------|
| **Comfort accessories** | | **Hydraulic accessories** | |
| 20059641 | ALPHA DGT WIRELESS digital room thermostat | 1101989 | Heating taps |
| 20059639 | ALPHA DGT digital room thermostat | 1101999 | Heating taps with filter (for combi models) |
| 20101748 | ALPHA 7D WIRELESS 7-day digital room thermostat | 1220599 | Socket probe for DHW tank - 3m wire (for R.S.I. models) |
| 20063872 | ALPHA 7D 7-day digital room thermostat | 20025113 | Solar diverter mixing valve (including flexible stainless steel connection pipes) |
| 20164477 | OTBus interface board | | |
| 1220559 | Outdoor probe with connector | 1101979 | High head pump (6 metres ) - (for 26/30 C.S.I. models) |
| | | **Special accessories** | |
| | | 20071580 | Dummy Exclusive MIX for POS |

■ ≫ **NEW**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

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

# MYNUTE Lx - MYNUTE S

**Beretta**

**LOW NOx**

### INTERAXES AND HYDRAULIC FITTINGS POSITIONING

| Central heating | Gas | Domestic water |
|---|---|---|
| R    F | G | O    I |
| 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.
- 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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## Conventional flue

ErP

| CODE | GAS | MODEL | DIMENSIONS H x W x 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 x 400 x 338 | 24,06 | 13,8 | C | B |
| 20151438 | NG | MYNUTE 28 C.A.I. LX | 740 x 452 x 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20074588 | NG | MYNUTE S 24 C.A.I. E | 740 x 400 x 336 | 24,00 | 13,7 |
| 20069390 (*) | NG | MYNUTE S 28 C.A.I. E | 740 x 452 x 336 | 28,00 | 16,5 |

(*) While stocks last

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20069385 | NG | MYNUTE S 24 C.S.I. | 740 x 400 x 336 | 24,00 | 13,9 |

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20069387 | NG | MYNUTE S 28 C.S.I. | 740 x 400 x 336 | 28,00 | 16,0 |
| 20069389 | LPG | MYNUTE S 28 C.S.I. | 740 x 400 x 336 | 28,00 | 16,0 |
| 20069392 (*) | NG | MYNUTE S 35 C.S.I. | 780 x 505 x 336 | 35,00 | 20,0 |
| **HEATING ONLY BOILERS** | | | | | |
| 20069391 | NG | MYNUTE S 28 R.S.I. | 740 x 400 x 336 | 28,00 | - |
| 20069395 (*) | NG | MYNUTE S 35 R.S.I. | 780 x 505 x 336 | 35,00 | - |

(*) While stocks last

The "heating only" models is supplied with a three-ways valve. Filling tap not available.
Note: models available only for RUSSIA & CIS Countries.

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|---|---|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

**(*)** Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
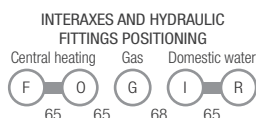**(1)** With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
**(2)** For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

■ ≫ NEW

## 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- 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 Hi, Comfort 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20068208 | NG | CIAO S 20 C.S.I. | 715 x 405 x 248 | 20,00 | 11,8 |
| 20068204 | NG | CIAO S 24 C.S.I. | 715 x 405 x 248 | 24,00 | 13,7 |
| 20068228 | LPG | CIAO S 24 C.S.I. | 715 x 405 x 248 | 24,00 | 13,7 |
| **HEATING ONLY BOILERS *** | | | | | |
| 20068207 | NG | CIAO S 24 R.S.I. | 715 x 405 x 248 | 24,00 | - |

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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|---|---|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## Other accessories

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|---|---|---|---|
| **Comfort accessories** | | 20008794 | Hydraulic connections kit (for welding) |
| 20059641 | ALPHA DGT WIRELESS digital room thermostat | 20008795 | Hydraulic connections kit (with brass nipples) |
| 20059639 | ALPHA DGT digital room thermostat | 20025113 | Solar diverter mixing valve kit (including flexible stainless steel connection pipes) |
| 20101748 | ALPHA 7D WIRELESS 7- day digital room thermostat | 1101979 | High head pump (6 metres) |
| 20063872 | ALPHA 7D 7- day digital room thermostat | 1220599 | Socket probe for DHW tank - 3m wire (only R.S.I. models) |
| 1220559 | Outdoor probe with connector | **Special accessories** | |
| **Hydraulic accessories** | | 20012594 | Lower cover |
| 1101989 | Heating taps | 20012595 | Upper cover |
| 1101999 | Heating taps with filter | 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).

Single-circuit (R.S.I.) and double-circuit (C.S.I.) CITY wall-hung gas boiler with room-sealed combustion chamber and double-circuit (C.A.I.) CITY wall-hung gas boiler with open combustion chamber, designed for space heating and the supply of DHW for various purposes. These models are ideal for use in flat heating systems.

- **Separate heat exchangers for heating and domestic hot water (for C.S.I. and C.A.I.).**
- **Control panel LCD display.**
- **Two holes for air duct connection in case of separate chimney and air intake (for R.S.I. and C.S.I.).**
- **Ability of receiving a lockout signal for remote transmission (using an optional accessory).**
- **Possibility of connecting a separate boiler - domestic hot water storage tank (for 24-28 R.S.I.).**
- Built-in weather compensation function (when an outdoor temperature sensor is installed).
- Three-speed circulation pump.
- Built-in three-way valve for DHW (for CITY R.S.I.).
- Burner with continuous modulating power control.
- Built-in automatic refrigerant temperature control system.
- Built-in wiring and safety systems.
- Protection against freezing and locking of the pump and three-way valve.
- Priority to hot water.
- Capacity to operate with liquefied gas.
- Fault self-diagnosis system with information output on LCD display.
- Option to connect a remote control.

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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20087846 | NG | CITY 24 C.S.I. | 715 x 405 x 248 | 23.90 | 13.7 |
| 20087848 | NG | CITY 28 C.S.I. | 740 x 400 x 332 | 28.00 | 16.1 |
| 20049747 (*) | NG | CITY 35 C.S.I. | 780 x 505 x 332 | 34.90 | 20.0 |
| **HEATING ONLY BOILERS** | | | | | |
| 20087845 | NG | CITY 24 C.A.I. | 715 x 405 x 248 | 24.10 | - |
| 20087847 (*) | NG | CITY 28 C.A.I. | 740 x 400 x 332 | 29.00 | - |

(*) While stocks last

The "heating only" models is supplied with a three-ways valve. Filling tap not available.
Note: models available only for RUSSIA & CIS Countries.

Combi and 'heating only' wall-hung gas boilers

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# CITY

**Beretta**

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20087845 | NG | CITY 24 C.A.I. | 740 x 400 x 332 | 24.10 | 13.8 |
| 20087847 | NG | CITY 28 C.A.I. | 740 x 450 x 332 | 29.00 | 16.6 |

Note: models available only for RUSSIA & CIS Countries.

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|---|---|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

**(*)** Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
**(1)** With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
**(2)** For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## Other accessories

| CODE | DESCRIPTION | | CODE | DESCRIPTION |
|---|---|---|---|---|
| **Comfort accessories** | | | 20008794 | Hydraulic connections kit (for welding) |
| 20059641 | ALPHA DGT WIRELESS digital room thermostat | | 20008795 | Hydraulic connections kit (with brass nipples) |
| 20059639 | ALPHA DGT digital room thermostat | | 20025113 | Solar diverter mixing valve kit (including flexible stainless steel connection pipes) |
| 20101748 | ALPHA 7D WIRELESS 7- day digital room thermostat | | 1101979 | High head pump (6 metres) |
| 20063872 | ALPHA 7D 7- day digital room thermostat | | 1220599 | Socket probe for DHW tank - 3m wire (only R.S.I. models) |
| 1220559 | Outdoor probe with connector | | **Special accessories** | |
| **Hydraulic accessories** | | | 20012594 | Lower cover |
| 1101989 | Heating taps | | 20012595 | Upper cover |
| 1101999 | Heating taps with filter | | 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).

**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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## Conventional flue

ErP

| CODE | GAS | MODEL | DIMENSIONS H x W x 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 x 400 x 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|------|-----|-------|--------------------------|-------------|-----------------------------------|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20084087 | NG | QUADRA II 24 C.S.I. | 715 x 405 x 250 | 24,00 | 13,7 |
| 20097272 | NG | QUADRA II 28 C.S.I. | 740 x 400 x 328 | 28,00 | 16,3 |

# QUADRA II Lx - QUADRA II

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## 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 |
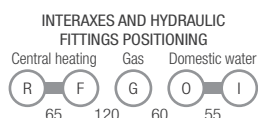
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# CIAO Lx - CIAO

**Beretta**

**LOW NOx**

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

| Central heating | Gas | Domestic water |
|---|---|---|
| R    F | G | O    I |
| 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.**

- 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 Hi, Comfort Control working as WiFi thermostat in OTBus communication, allowing extensive TOP advantages.**

## Conventional flue

ErP

| CODE | GAS | MODEL | DIMENSIONS H x W x 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 x 400 x 340 | 24,06 | 13,8 | C | B |
| 20151437 | LPG | CIAO 24 C.A.I. LX | 740 x 400 x 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20070518 (*) | NG | CIAO 24 C.A.I. E | 740 x 400 x 332 | 24,00 | 13,6 |
| 20070520 (*) | NG | CIAO 28 C.A.I. E | 740 x 400 x 332 | 28,00 | 16,3 |

(*) While stocks last

# CIAO Lx - CIAO

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|------|-----|-------|---------------------------|-------------|-----------------------------------|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20070516 (*) | NG | CIAO 24 C.S.I. e | 715 x 405 x 248 | 24,00 | 13,7 |
| 20070517 (*) | NG | CIAO 28 C.S.I. e | 740 x 450 x 332 | 28,00 | 16,2 |
| 20070522 (*) | LPG | CIAO 28 C.S.I. e | 740 x 450 x 332 | 28,00 | 16,2 |

(*) While stocks last

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
|------|-------------|
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

**(*)** Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
**(1)** With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
**(2)** For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).
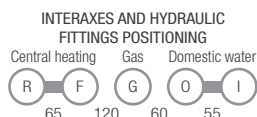
## Other accessories

| 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

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Double-circuit CIAO wall-hung gas boiler with room-sealed (C.S.I.) and open (C.A.I.) combustion chambers designed for heating and hot water production in spaces of various uses. These models are optimal for use in flat heating systems.

- **Coaxial heat exchangers for heating and domestic hot water.**
- **Control panel LCD display.**
- **Two holes for air duct connection in case of separate flue gas discharge and air intake (for C.S.I.).**
- **Ability to receive a lockout signal for remote transmission (using an optional accessory).**
- **Built-in weather-compensated function (when an outdoor temperature sensor is installed).**
- Three-speed circulation pump.
- Automatic electric ignition and flame presence monitoring function.
- Burner with continuous power modulation.
- Built-in automatic coolant temperature control system.
- Built-in wiring and safety systems.
- Frost protection and pump lock.
- Hot water priority.
- Operating capability with liquefied gas.
- Fault self-diagnosis system with information output on LCD display.
- Possibility of connecting a remote control.

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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20068314 (*) | NG | CIAO 16 C.S.I. | 715 x 405 x 248 | 16.00 | 11.8 |
| 20048923 (*) | NG | CIAO 24 C.S.I. | 715 x 405 x 248 | 23.90 | 13.7 |
| 20049343 (*) | NG | CIAO 28 C.S.I. | 740 x 400 x 332 | 28.20 | 16.2 |

(*) While stocks last
Note: models available only for RUSSIA & CIS Countries.

## 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 x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 25 °C) |
|---|---|---|---|---|---|
| **INSTANTANEOUS COMBI BOILERS** | | | | | |
| 20049246 (*) | NG | CIAO 24 C.A.I. | 740 x 400 x 332 | 23.80 | 13.6 |
| 20049702 (*) | NG | CIAO 28 C.A.I. | 740 x 400 x 332 | 28.50 | 16.3 |

(*) While stocks last

The "heating only" models is supplied with a three-ways valve. Filling tap not available.
Note: models available only for RUSSIA & CIS Countries.

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Hi, Comfort controls for domestic comfort (*)

| CODE | DESCRIPTION |
| --- | --- |
| 20193354 | Thermostat Hi, Comfort T100 Wi-fi [1] |
| 20193352 | Thermostat Hi, Comfort T100 [2] |
| 20193355 | Wi-Fi box Hi, Comfort G100-W for internet connection via home ADSL router |
| 20193356 | RF - Wireless boiler receiver Hi, Comfort G100-R |

(*) Possibility of ON/OFF connection: for further details, refer to the pages dedicated to the Hi, Comfort Control in the THERMOREGULATION section of the Price List Catalogue.
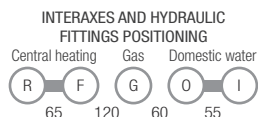(1) With Wi-Fi Box Hi, Comfort G100-W included for Internet connection via home ADSL Wi-Fi router.
(2) For cable connection to the boiler. Compatible for radio frequency connection with Hi, Comfort G100-W code 20193355 (accessory not included and necessary for Internet connection via home ADSL router).

## 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 |

| CODE | DESCRIPTION |
| --- | --- |
| 1101999 | Heating taps with filter |
| 20025113 | Solar diverter valve (including flexible stainless steel connection pipes) |
| 20008794 | Kit hydraulic connections (for welding) |
| 20008795 | Kit hydraulic connections (with brass nipples) |
| **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)* |

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

**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

| 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**
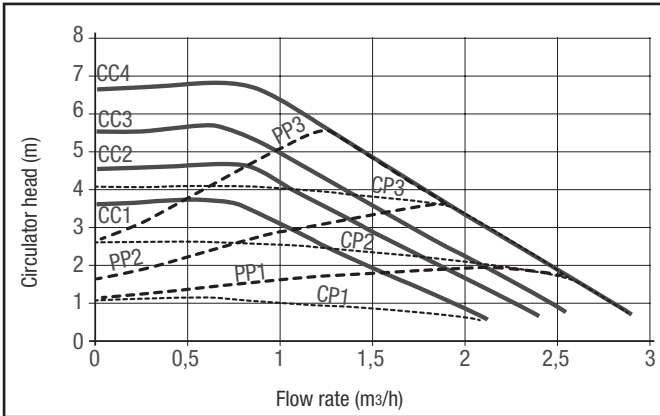
**Residual head available to the LOW TEMPERATURE system**



| PP1 | LOW proportional head curve | | CC1 | Curve 1 = 4 metres |
|-----|------------------------------|---|-----|--------------------|
| PP2 | AVERAGE proportional head curve | | CC2 | Curve 2 = 5 metres |
| PP3 | HIGH proportional head curve | | CC3 | Curve 3 = 6 metres |
| | | | CC4 | Curve 4 MAX = 7 metres |
| CP1 | LOW constant head curve | | | |
| CP2 | AVERAGE constant head curve | | | |
| CP3 | HIGH constant head curve | | | |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Connect LE with direct zones

**Residual head available to the system for CONNECT 1D LE**
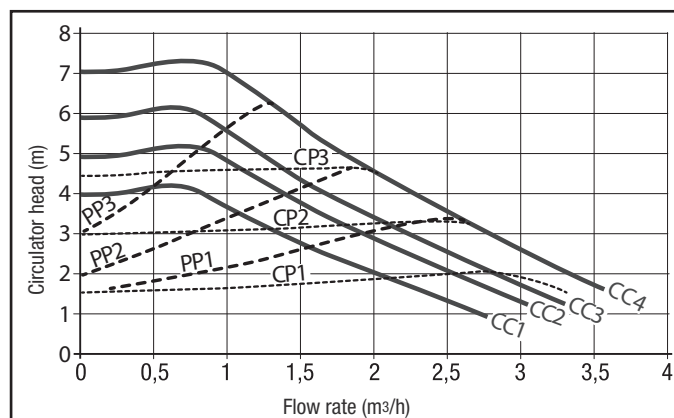


**Residual head available to the system for CONNECT 3D LE / CONNECT 2D LE**
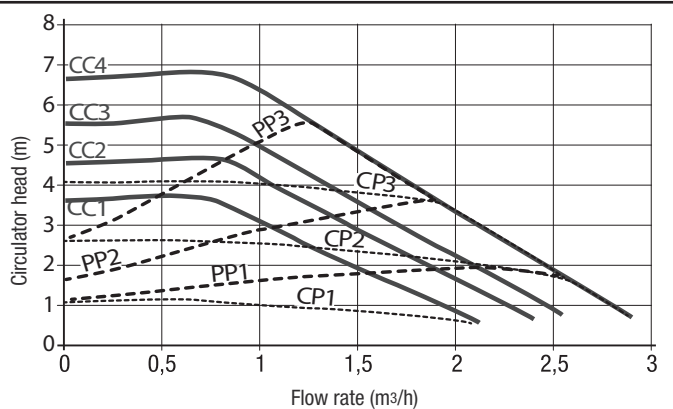


| | |
|---|---|
| **PP1** | LOW proportional head curve |
| **PP2** | AVERAGE proportional head curve |
| **PP3** | HIGH proportional head curve |
| **CP1** | LOW constant head curve |
| **CP2** | AVERAGE constant head curve |
| **CP3** | HIGH constant head curve |

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

- 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

| 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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Connect LE with mixed zones

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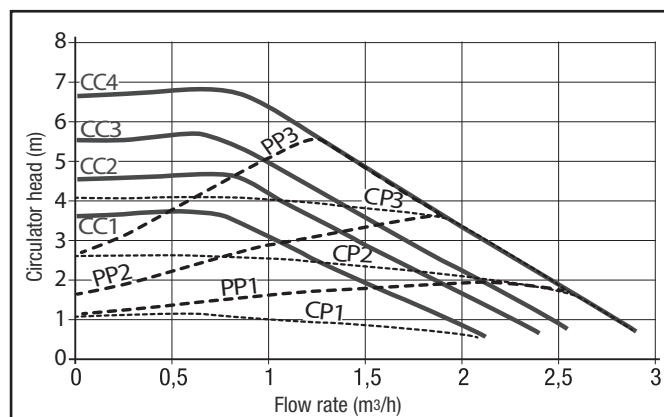
**Residual head available at LOW TEMPERATURE system**



| | |
|---|---|
| **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 |
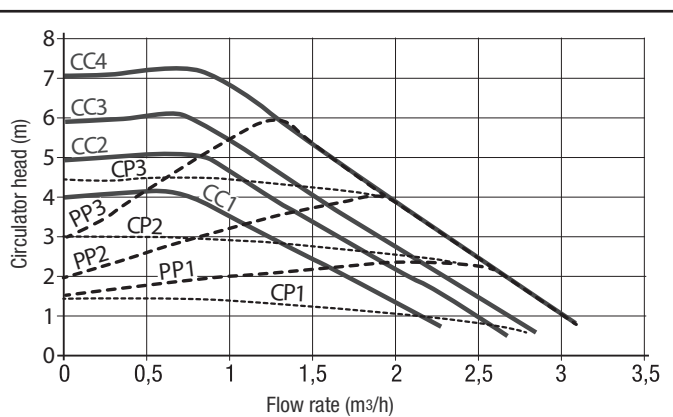
- Can be matched with all Beretta condensing and standard-efficiency wall-hung and floor-standing boilers.
- Thermostatic mixing valve on BT zones.
- **Low Energy auto-modulating pumps (EEI≤0,20).**
- Limit thermostat for low temperature installations supplied as standard.
- Specifically designed only for in-box installations (INDOOR and OUTOOR).
- IPX4D electrical protection.

## Connect BASE LE - Low Energy with thermostatic BT zones

| 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

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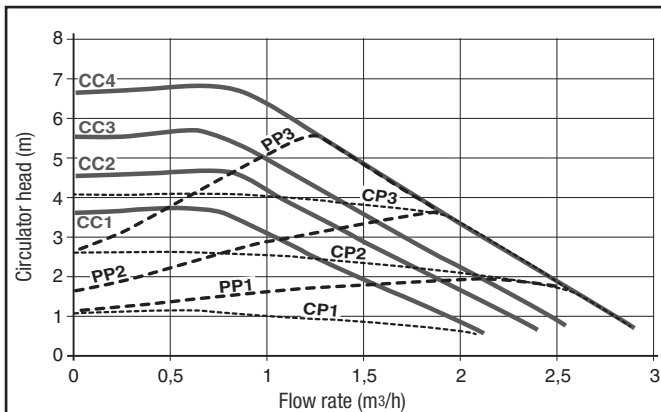
**Residual head available at LOW TEMPERATURE system**



| | | |
|---|---|---|
| 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 | |
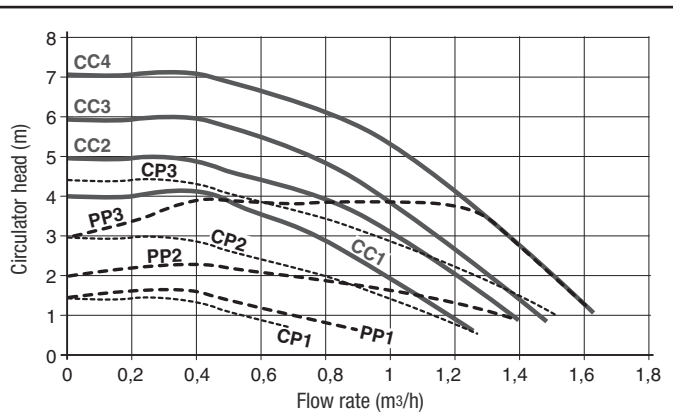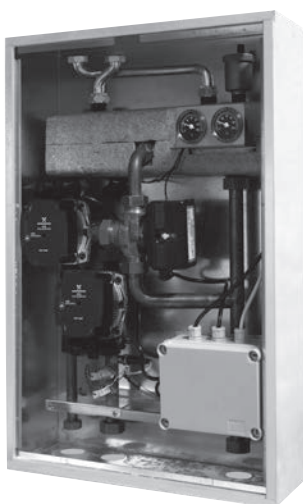
- **To be matched only with Beretta condensing boilers Exclusive Green e and Exclusive Boiler Green He.**
- 3-ways motorized mixing valve.
- **Low Energy auto-modulating pumps (EEI≤0,20).**
- Independent climatic bends setting for each zone.
- Electronic management board supplied as standard.
- Limit 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

| CODE | MODEL | DIMENSIONS H x W x D (mm) |
|------|-------|---------------------------|
| 20094267 | CONNECT AT/BT LE (BT WITH MOTORIZED MIXING VALVE) | 616 x 440 x 155 |

Condensing
FLUE OPTIONS

Beretta

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG 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 | IMAGE | Exclusive EVO X - Mynute EVO X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN | Meteo X |
|---|---|---|---|---|---|---|---|---|
| 20134830 | Flue adapter kit from Ø60/100 to twin Ø80-80 swelling position |  | | | ■ | ■ | | |
| 20190475 | Kit sdoppiatore orientabile compatto da Ø60/100 mm a Ø80-80 mm |  | | | | | | |
| 20137501 | Kit collegamento sistema sdoppiato |  | | | | | | |
| 20129765 | Flue adapter kit from Ø60/100 to twin Ø80-80 |  | | | ■ | ■ | | |
| 20217921 | Kit sistema collegamento sdoppiato Ø80 mm |  | | | | | | |
| 20137523 | Ø80 twin system kit |  | ■ | | | | ■ | |
| 20137503 | Ø80 45°bend |  | | ■ | ■ | ■ | ■ | |
| 20137506 | Ø80 90°bend |  | | ■ | ■ | ■ | ■ | |
| 20137508 | Ø80 extension 500 mm |  | | ■ | ■ | ■ | ■ | |
| 20137509 | Ø80 extension 1000 mm |  | | ■ | ■ | ■ | ■ | |
| 20137511 | Ø80 extension 2000 mm |  | | ■ | ■ | ■ | ■ | |
| 20137517 | Ø80 horizontal flue terminal 985 mm |  | | ■ | ■ | ■ | ■ | |
| 20137515 | Ø80 air inlet horizontal terminal 662 mm |  | | ■ | ■ | ■ | ■ | |
| 20129769 | Flue adapter from Ø60/100 to Ø80 for B23 installation with air inlet |  | | | ■ | ■ | | |
| 20137521 | Flue adapter from Ø60/100 to Ø80 for B23 installation with air inlet |  | | | | | | ■ |
| 20129768 | Ø60-80 flue adapter for installation type B23 and air inlet |  | | | ■ | ■ | | |
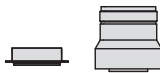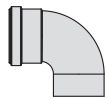
## Ø80 twin flue system in plastic (PP) for condensing boilers - H1 Class (*)

| CODE | DESCRIPTION | IMAGE | Exclusive EVO X - Mynute EVO X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN | Meteo X |
|------|-------------|-------|------|------|------|------|------|------|
| 20137527 | Ø60-80 flue adapter for installation type b23 and air inlet | | | | | | ■ | |
| 20137532 | Ø80 spacers for pipe (4 pcs. Pack) | | | ■ | ■ | ■ | ■ | |
| 20164664 | Kit clapet per sdoppiato Ø80 per canne fumarie collettive in pressione (3) | | | ■ | ■ | ■ | ■ | |
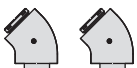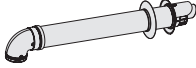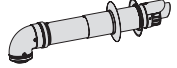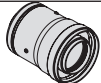
Due to exposition to sunlight, the colour of the material (PP) may be altered.
(*)         Class H1 - High positive pressure (max. 5,000 Pa).

## Ø80 twin flue system in aluminium for condensing boilers
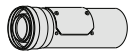
| CODE | DESCRIPTION | IMAGE | Exclusive X (1) | Exclusive BOILER GREEN HE | Mynute X (1) | Ciao X (1) | Mynute BOILER GREEN |
|---|---|---|---|---|---|---|---|
| 20162456 | Ø80 TWIN SYSTEM KIT | | ■ | ■ | ■ | ■ | ■ |
| 20162295 | Ø80 45°BEND | | ■ | ■ | ■ | ■ | ■ |
| 20162296 | Ø80 90°BEND | | ■ | ■ | ■ | ■ | ■ |
| 20162298 | Ø80 EXTENSION 500 mm | | ■ | ■ | ■ | ■ | ■ |
| 20162299 | Ø80 EXTENSION 1000 mm | | ■ | ■ | ■ | ■ | ■ |
| 20162300 | Ø80 EXTENSION 2000 mm | | ■ | ■ | ■ | ■ | ■ |
| 20162442 | Ø80 HORIZONTAL FLUE TERMINAL | | ■ | ■ | ■ | ■ | ■ |
| 20162665 | Ø80 AIR INLET HORIZONTAL TERMINAL | | ■ | ■ | ■ | ■ | ■ |
| 20162448 | Ø80 FLUE ADAPTER with AIR INLET | | ■ | | ■ | ■ | ■ |
| 20014659 | Ø80 FLUE ADAPTER with AIR INLET | | ■ | ■ | ■ | ■ | ■ |
| 20137532 | Ø80 SPACERS FOR PIPE (4 pcs. pack) | | ■ | ■ | ■ | ■ | ■ |

(1)   For boiler start-up, see the section on flue Ø60/100 and only afterwards switch to Ø80/125.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Mynute X | Ciao X | Exclusive BOILER GREEN HE | Mynute BOILER GREEN |
|------|-------------|-------|-------------|----------|--------|---------------------------|---------------------|
| 20132012 | Ø60/100 45°CONCENTRIC BEND | | | | | ■ | ■ |
| 20132040 | Ø60/100 45°CONCENTRIC BEND (2 pcs.) | | | | | ■ | ■ |
| 20132013 | Ø60/100 90°CONCENTRIC BEND | | | | | ■ | ■ |
| 20129172 | Ø60/100 90° reduced concentric bend kit (A) | | ■ | ■ | ■ | | |
| 20132043 | Ø60/100 CONCENTRIC EXTENSION 500 mm | | | | | ■ | ■ |
| 20132044 | Ø60/100 CONCENTRIC EXTENSION 1000 mm | | | | | ■ | ■ |
| 20132045 | Ø60/100 CONCENTRIC EXTENSION 2000 mm | | | | | ■ | ■ |
| 20132020 | Ø60/100 VERTICAL FLUE TERMINAL Ø125 EXTERNAL STRAIGHT PIPE | | | | | ■ | ■ |
| 20132018 | Ø60/100 HORIZONTAL FLUE TERMINAL | | | | | ■ | ■ |
| 20129175 | Ø60/100 HORIZONTAL FLUE TERMINAL KIT with 90° REDUCED CONCENTRIC BEND | | ■ | ■ | ■ | | |
| 20129176 | Ø60/100 TELESCOPIC HORIZONTAL FLUE TERMINAL KIT with 90° REDUCED CONCENTRIC BEND | | ■ | ■ | ■ | | |
| 20129177 | Ø60/100 VERTICAL FLUE TERMINAL KIT with VERTICAL ADAPTER | | ■ | ■ | ■ | | |
| 20132050 | Ø125 PITCHED ROOF TILE for VERTICAL FLUE | | | | | ■ | ■ |
| 20135579 | Ø125 FLAT ROOF TILE for VERTICAL FLUE | | | | | ■ | ■ |
| 20135584 | Ø100 SPACERS for PIPE (4 pcs. pack) | | | | | ■ | ■ |
| 20129174 | Ø60/100 Vertical adapter kit (A) | | ■ | ■ | ■ | | |

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Mynute X | Ciao X | Exclusive BOILER GREEN HE | Mynute BOILER GREEN |
|---|---|---|---|---|---|---|---|
| 20132015 | Ø60/100 EXTENTION with INSPECTION DOOR |  | | | | ■ | |
| 20163032 | Ø100 PIPE CLIPS KIT (5 pcs) (**) |  | | | | ■ | ■ |
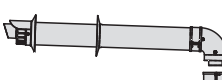
Due to exposition to sunlight, the colour of the material (PP) may be altered.
(*)        Class H1 - High positive pressure (max. 5,000 Pa).
(A)        The straight low curve adapter codes are used to use flue Ø 60/100 available in the catalogue with Exclusive/Mynute X and Ciao AT boilers.
(**)       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.
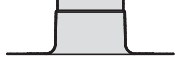
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN |
|------|-------------|-------|-------------|---------------------------|----------|--------|---------------------|
| 20142823 | Ø60/100 45°CONCENTRIC BEND | | | ■ | | | ■ |
| 20142825 | Ø60/100 90°CONCENTRIC BEND | | | ■ | | | ■ |
| 20142828 | Ø60/100 90°CONCENTRIC BEND with inspection | | | ■ | | | ■ |
| 20142829 | Ø60/100 CONCENTRIC EXTENSION 500 mm | | | ■ | | | ■ |
| 20142830 | Ø60/100 CONCENTRIC EXTENSION 1000 mm | | | ■ | | | ■ |
| 20142831 | Ø60/100 CONCENTRIC EXTENSION 2000 mm | | | ■ | | | ■ |
| 20142835 | Ø60/100 CONCENTRIC EXTENSION with inspection | | | ■ | | | ■ |
| 20142839 | Ø60/100 VERTICAL FLUE TERMINAL Ø125 EXTERNAL STRAIGHT PIPE | | | ■ | | | ■ |
| 20142836 | Ø60/100 HORIZONTAL FLUE TERMINAL | | | ■ | | | ■ |
| 20132050 | Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE | | | ■ | | | ■ |
| 20135579 | Ø125 FLAT ROOF TILE FOR VERTICAL FLUE | | | ■ | | | ■ |
| 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).
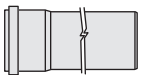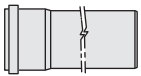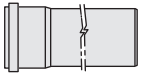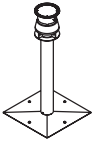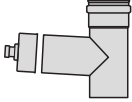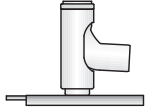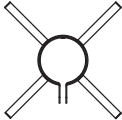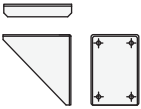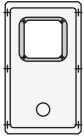
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Ø80/125 concentric flue system in PP/Met for condensing boilers
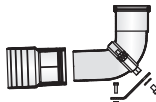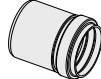
| CODE | DESCRIPTION | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN |
|------|-------------|-------|-------------|---------------------------|----------|--------|---------------------|
| 20164651 | Ø80/125 45°CONCENTRIC BEND | | | ■ | | | ■ |
| 20164653 | Ø80/125 90°CONCENTRIC BEND | | | ■ | | | ■ |
| 20164655 | Ø80/125 90°CONCENTRIC BEND with INSPECTION DOOR | | | ■ | | | ■ |
| 20164657 | Ø80/125 CONCENTRIC EXTENSION 500 mm | | | ■ | | | ■ |
| 20164659 | Ø80/125 CONCENTRIC EXTENSION 1000 mm | | | ■ | | | ■ |
| 20164660 | Ø80/125 CONCENTRIC EXTENSION 2000 mm | | | ■ | | | ■ |
| 20164661 | Ø80/125 CONCENTRIC EXTENSION with INSPECTION DOOR | | | ■ | | | ■ |
| 20131113 | Ø80/125 VERTICAL FLUE TERMINAL (in PP/PPu); Ø125 EXTERNAL STRAIGHT PIPE | | | ■ | | | ■ |
| 20164673 | Ø80/125 HORIZONTAL FLUE TERMINAL (in PP/PPu) | | | ■ | | | ■ |
| 20164665 | Ø80/125 SPACERS (5 pcs. pack) | | | ■ | | | ■ |
| 20132050 | Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE | | | ■ | | | ■ |
| 20135579 | Ø125 FLAT ROOF TILE FOR VERTICAL FLUE | | | ■ | | | ■ |
| 20164666 | FLUE ADAPTER from Ø60/100 to Ø80/125 | | | ■ | | | ■ |
| 20164662 | Kit clapet concentrico Ø80-125 per canne fumarie collettive in pressione (2) | | | | | | |

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

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X (1) | Ciao X (1) | Mynute BOILER GREEN |
|------|-------------|-------|:-:|:-:|:-:|:-:|:-:|
| 20145877 | Ø60 45°BEND |  | ■ | ■ | ■ | ■ | ■ |
| 20145876 | Ø60 90°BEND |  | ■ | ■ | ■ | ■ | ■ |
| 20145879 | Ø60 EXTENSION 500 mm |  | ■ | ■ | ■ | ■ | ■ |
| 20145882 | Ø60 EXTENSION 1000 mm |  | ■ | ■ | ■ | ■ | ■ |
| 20145883 | Ø60 EXTENSION 2000 mm |  | ■ | ■ | ■ | ■ | ■ |
| 20145884 | Ø60/100 VERTICAL FLUE TERMINAL PP/PPu Ø100 EXTERNAL STRAIGHT PIPE |  | ■ | ■ | ■ | ■ | ■ |
| 20145894 | Ø60 T-CONNECTION with CONDENSATE TRAP CAP |  | ■ | ■ | ■ | ■ | ■ |
| 20164584 | Ø60 T-CONNECTION |  | ■ | ■ | ■ | ■ | ■ |
| 20145886 | Ø60 3 SPACERS KIT for INSIDE-CHIMNEY |  | ■ | ■ | ■ | ■ | ■ |
| 20145888 | SHELF SUPPORT KIT for INSIDE-CHIMNEY |  | ■ | ■ | ■ | ■ | ■ |
| 20145889 | CHIMNEY FRONT COVER KIT |  | ■ | ■ | ■ | ■ | ■ |
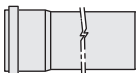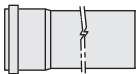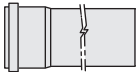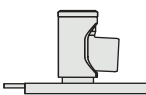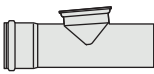
Condensing
# FLUE OPTIONS

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG 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 | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X (1) | Ciao X (1) | Mynute BOILER GREEN |
|---|---|---|---|---|---|---|---|
| 20145890 | Ø60 5 HOSE CLAMPS KIT | | ■ | ■ | ■ | ■ | ■ |
| 20145892 | Ø80-60 CHIMNEY CONNECTION KIT with Ø60 90°BEND | | ■ | ■ | ■ | ■ | ■ |
| 20046782 | CONDENSATE SIPHON KIT | | ■ | ■ | ■ | ■ | ■ |
| 20144194 | Ø60-50 FLUE ADAPTER | | ■ | ■ | ■ | ■ | ■ |
| 20145897 | Ø80-60 FLUE ADAPTER | | ■ | ■ | ■ | ■ | ■ |
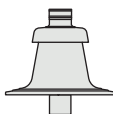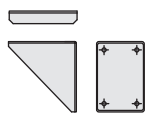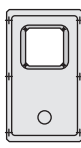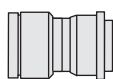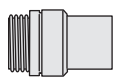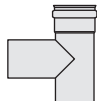
Due to exposition to sunlight, the colour of the material (PP) may be altered.
(1)        For Mynute X series connect to the boiler with codes 20129174 or 20129172 in Ø60/100 section and then use the Ø80/125 adapter 20164666.

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN |
|------|-------------|-------|-------------|---------------------------|----------|--------|---------------------|
| 20164570 | Ø80 45°BEND |  | | ■ | | | ■ |
| 20164572 | Ø80 90°BEND |  | | ■ | | | ■ |
| 20164574 | Ø80 EXTENSION 500 mm |  | | ■ | | | ■ |
| 20164577 | Ø80 EXTENSION 1000 mm |  | | ■ | | | ■ |
| 20164578 | Ø80 EXTENSION 2000 mm |  | | ■ | | | ■ |
| 20132509 | Ø80 FLEXIBLE EXTENSION (12.5 m) with 8 SPACERS |  | | ■ | | | ■ |
| 20164585 | Ø60/80 ADAPTER |  | | ■ | | | ■ |
| 20164582 | Ø60/100 CHIMNEY ADAPTER |  | | ■ | | | ■ |
| 20132520 | Ø80/125 CHIMNEY ADAPTER |  | | ■ | | | ■ |
| 20132504 | Ø80 CHIMNEY SUPPORT KIT |  | | ■ | | | ■ |
| 20132505 | PIPE SPACERS |  | | ■ | | | ■ |
| 20132506 | Ø80 INSPECTION EXTENSION |  | | ■ | | | ■ |

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

| CODE | DESCRIPTION | IMAGE | Exclusive X | Exclusive BOILER GREEN HE | Mynute X | Ciao X | Mynute BOILER GREEN |
|---|---|---|---|---|---|---|---|
| 20132508 | Ø80 ROOF TILE | | | ■ | | | ■ |
| 20145888 | SHELF SUPPORT KIT FOR CONDENSATE TRAP | | | ■ | | | ■ |
| 20145889 | CHIMNEY FRONT COVER KIT | | | ■ | | | ■ |
| 20132511 | Ø80 FLEXIBLE/FLEXIBLE CONNECTION F/F | | | ■ | | | ■ |
| 20132512 | Ø80 FLEXIBLE/RIGID CONNECTION F | | | ■ | | | ■ |
| 20132510 | Ø80 RIGID/FLEXIBLE CONNECTION M | | | ■ | | | ■ |
| 20046782 | CONDENSATE SIPHON KIT | | | ■ | | | ■ |
| 20163019 | Ø80 CONDENSATE TRAP CAP FOR T-CONNECTION (IN ALUMINIUM) | | | ■ | | | ■ |
| 20163018 | Ø80 T-CONNECTION (IN ALUMINIUM) | | | ■ | | | ■ |
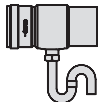
Due to exposition to sunlight, the colour of the material (PP) may be altered.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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
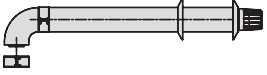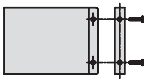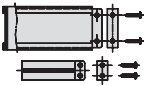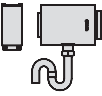
| CODE | DESCRIPTION | IMAGE | Exclusive MIX C.S.I./R.S.I. | Mynute S 24-28 C.S.I./R.S.I. | Mynute S 35 C.S.I./R.S.I. | Ciao S C.S.I./R.S.I. | City C.S.I./R.S.I. | Quadra II C.S.I. | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20162668 | Ø80 TWIN SYSTEM KIT | | | | | ■ | ■ | ■ | | |
| 20162667 | Ø80 TWIN SYSTEM KIT | | ■ | ■ | | | | | ■ | ■ |
| 20162666 | FLUE ADAPTER KIT from Ø60/100 to Ø80/80 | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162665 | Ø80 AIR INLET HORIZONTAL TERMINAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162664 | Ø80 HORIZONTAL FLUE TERMINAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162295 | Ø80 90° BEND WITH GASKET | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162296 | Ø80 45° BEND WITH GASKET | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162455 | FLUE ADAPTER Ø60/100 TO Ø80 FOR B23/B22 INSTALLATION WITH AIR INLET | | | ■ | | | ■ | ■ | ■ | |
| 20162298 | Ø80 EXTENSION (500 mm) with GASKET | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162299 | Ø80 EXTENSION (1000 mm) with GASKET | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162300 | Ø80 EXTENSION (1950 mm) with GASKET | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162835 | Ø80 AIR REGULATION FLANGE KIT | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

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

| CODE | DESCRIPTION | IMAGE | Exclusive MIX 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. | City C.S.I./R.S.I. | Quadra II C.S.I. | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20162662 | Ø80 CONDENSATE TRAP HORIZONTAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162663 | Ø80 CONDENSATE TRAP VERTICAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20137532 | Ø80 SPACERS FOR PIPE (4 pcs. pack) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 | IMAGE | Exclusive MIX 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. | City C.S.I./R.S.I. | Quadra II C.S.I. | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20163422 | Ø60/100 VERTICAL TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163408 | Ø60/100 HORIZONTAL TERMINAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163410 | Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 TO 800 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163391 | Ø60/100 CONCENTRIC EXTENSION (750 mm) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163393 | Ø60/100 CONCENTRIC EXTENSION (1470 mm) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163388 | Ø60/100 90° ADAPTER BEND KIT for REPLACEMENT* | | | | | ■* | ■* | ■ | | |
| 20163333 | Ø60/100 90° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163327 | Ø60/100 45° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163429 | Ø100 CONNECTION CLIP KIT H 80 mm (4 pcs.) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163425 | Ø60/100 CONNECTION CLIP KIT BOILER-FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20132050 | Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20135579 | Ø125 FLAT ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163400 | Ø60/100 CONDENSATE TRAP HORIZONTAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
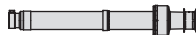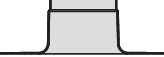
Standard-efficiency
# FLUE OPTIONS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 | IMAGE | Exclusive MIX 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. | City C.S.I./R.S.I. | Quadra II C.S.I. | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20163403 | Ø60/100 CONDENSATE TRAP VERTICAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20135584 | Ø100 SPACERS FOR PIPE (4 pcs. pack) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20163430 | Ø14 FLANGED SOCKET FOR INSPECTION FOR CONCENTRIC PIPE (2 pcs.) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
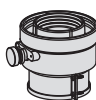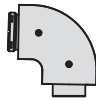
(*)        To be used in case of replacement of old Mynute 24 C.S.I with CIAO S range and with CIAO 24 C.S.I. E, only in case of concentric flue through wall.

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

| CODE | DESCRIPTION | IMAGE | Exclusive MIX 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. | City C.S.I./R.S.I. | Quadra II | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20162797 | Ø60/100 VERTICAL FLUE TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162798 | Ø60/100 CONCENTRIC HORIZONTAL TERMINAL | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162799 | Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 mm TO 800 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162793 | Ø60/100 CONCENTRIC EXTENSION 500 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162795 | Ø60/100 CONCENTRIC EXTENSION 1000 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162796 | Ø60/100 CONCENTRIC EXTENSION 2000 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162786 | Ø60/100 90° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162785 | Ø60/100 45° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20162790 | Ø60/100 90° CONCENTRIC BEND WITH INSPECTION DOOR | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20132050 | Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20135579 | Ø125 FLAT ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20135584 | Ø100 SPACERS FOR PIPE (4 pcs. pack) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

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

| CODE | DESCRIPTION | IMAGE | Exclusive MIX 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. | City C.S.I./R.S.I. | Quadra II | Ciao 28 C.S.I. e | Ciao 16-20-24 C.S.I. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20164216 | FLUE ADAPTER FROM Ø60/100 TO Ø80/125 WITH FLUE ANALYSIS POINT | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164202 | Ø80/125 45° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164206 | Ø80/125 90° CONCENTRIC BEND | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164213 | Ø80/125 HORIZONTAL TERMINAL WITH Ø60/100 ADAPTER | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164215 | Ø80/125 VERTICAL TERMINAL WITH Ø60/100 ADAPTER | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164207 | Ø80/125 CONCENTRIC EXTENSION 500 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164208 | Ø80/125 CONCENTRIC EXTENSION 1000 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164211 | Ø80/125 CONCENTRIC EXTENSION 2000 mm | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164217 | SIPHON FOR VERTICAL ADAPTER | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20135579 | Ø125 FLAT ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20132050 | Ø125 PITCHED ROOF TILE FOR VERTICAL FLUE | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 20164665 | Ø80/125 SPACERS (5 pcs.) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

# WATER-HEATERS »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 x 506 x 533 | 2.35 | 3.10 | A⁺ |
| 20075568 | ACQUAZENIT 120 | 1497 x 506 x 533 | 2.35 | 3.10 | A⁺ |
| 20075569 | ACQUAZENIT E 80 | 1197 x 506 x 533 | 2.35 | 3.10 | A⁺ |
| 20075571 | ACQUAZENIT E 120 | 1497 x 506 x 533 | 2.35 | 3.10 | A⁺ |

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

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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

DHW wall-hung heat pumps
# ACQUAZENIT

**Beretta**



| | | **80** | **120** | |
|---|---|---|---|---|
| A | | 1197 | 1497 | mm |
| B | | 345 | 645 | mm |
| Net weight | | 58 | 65 | kg |
| Weight with water | | 138 | 188 | kg |
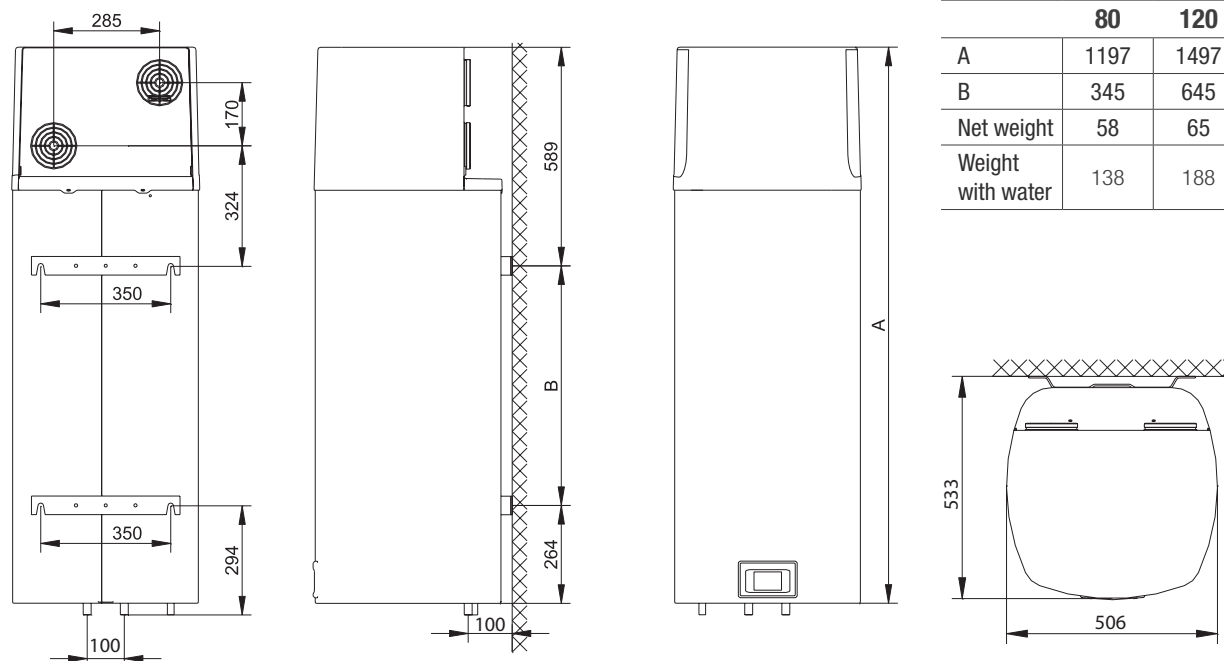
## Technical specifications

| 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 | |
| COP$_{DHW}$ 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 | |
| COP$_{DHW}$ 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] T$_{air}$ 15 °C; T$_{water}$ 10 - 55°C (EN 16147)

[2] T$_{air}$ 7 °C; T$_{water}$ 10 - 55°C (EN 16147)

159

- 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 x 660 | 1.95 | 2.92 | A+ |
| 20125647 | HP-E 260 ACS S (A)(B)(C) | 1845 x 660 | 1.95 | 2.92 | A+ |
| 20125648 | HP-E 260 ACS SC (A)(C) | 1845 x 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 | CODE | DESCRIPTION |
|------|-------------|------|-------------|
| 20001492 | Thermostatic mixing valve 1" with 3/4" adapter | 20120499 | Solar control box EVOSOL with probes |
| 20035644 | Solar diverter valve | 4383052 | 18L expansion vessel* |

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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## DHW floor-standing heat pumps
# HP-E 260 ACS

**⊕ Beretta**
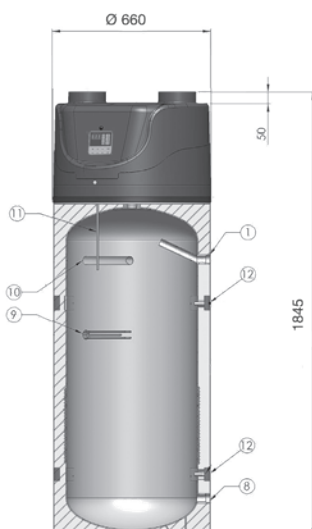
**HP- E 260 ACS**
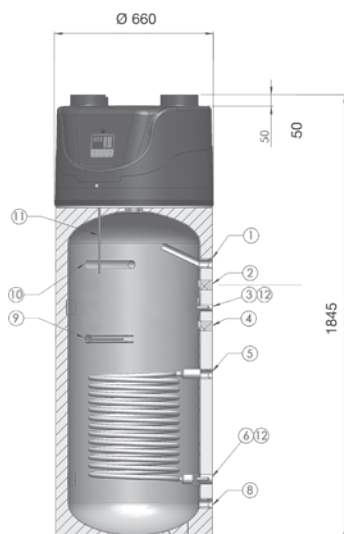


**HP- E 260 ACS S**



**HP-E 260 ACS SC**
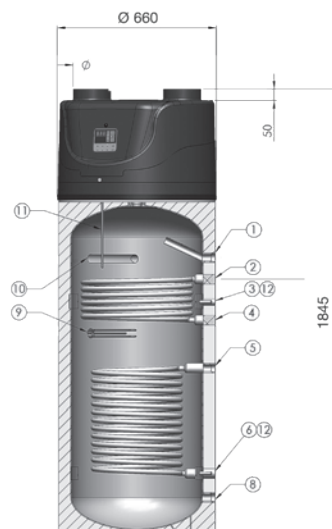


## Technical specifications

|  |  | 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 | |

161

**LOW NOx**

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING

DHW      Gas      DCW

O        G        I

A        B
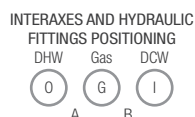
|      | A     | B     |
|------|-------|-------|
| 11   | 90    | 90    |
| 14   | 123,5 | 123,5 |

- 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.

## Conventional flue

ErP

| CODE | GAS | MODEL | DIMENSIONS [1] H x W x D (mm) | OUTPUT (kW) | DHW PRODUCTION (l/min. - Δt 30 °C) | ENERGY CLASS |
|------|-----|-------|------------------------------|-------------|------------------------------------|--------------|
| **IONISATION FLAME - BATTERY IGNITION** | | | | | | |
| 20149819 | NG | FONTE LX 11 | 675 x 350 x 230 | 19,43 | 9,3 | A ⟩ M* |
| 20149820 | LPG | FONTE LX 11 | 675 x 350 x 230 | 19,43 | 9,3 | A ⟩ M* |
| 20149825 | NG | FONTE LX 14 | 675 x 400 x 230 | 24,36 | 11,6 | A ⟩ L* |
| 20149826 | LPG | FONTE LX 14 | 675 x 400 x 230 | 24,36 | 11,6 | A ⟩ L* |

* Load profile.
(1) Dimensions without flues.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Instantaneous gas water-heaters
# IDRABAGNO Lx

**Beretta**

LOW NOx

INTERAXES AND HYDRAULIC
FITTINGS POSITIONING
DHW    Gas    DCW

O    G    I

74    74
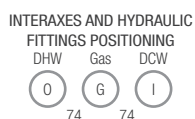
- **Gas water heaters for indoor installation.**
- **Low Nox** range according to EN 814-2013.
  Low Nox value < 56 mg/kWh, via cooled burner.
- Air-gas combustion, with 3:1 modulation ratio.
- A wide range of models of 11, 13 and 17 lt,
  available both as NG and LPG versions.
- New back-lit display 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 x W x 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.
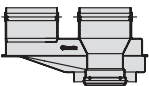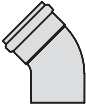
## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| **SPECIFIC ACCESSORIES** | |
| 1100499 | Hydraulic taps |
| 1100509 | Gas tap 3/4" right-angle |
| 20148036 | Frost protection resistances kit |
| 20162668 | Ø80 twin system kit (for 11-13 models) |
| 20162667 | Ø80 twin system kit (for 17 model) |
| 20162666 | Flue adapter kit from Ø60/100 to Ø80-80 |

| CODE | DESCRIPTION |
|------|-------------|
| 20122792 | Ø60/100 Adapter bend kit for replacement (for 11-13 model) |
| 20162798 | Ø60/100 concentric horizontal terminal |
| 20155911 | Dummy for Idrabagno Lx 11 |
| 20155581 | LPG gas transformation kit for Idrabagno Lx 11 |
| 20155583 | LPG gas transformation kit for Idrabagno Lx 13 |
| 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).

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

| CODE | DESCRIPTION | IMAGE | Idrabagno Lx 11-13 | Idrabagno Lx 17 |
|------|-------------|-------|--------------------|-----------------|
| 20162668 | Ø80 TWIN SYSTEM KIT | | ■ | |
| 20162667 | Ø80 TWIN SYSTEM KIT | | | ■ |
| 20162666 | FLUE ADAPTER KIT from Ø60/100 to Ø80-80 | | ■ | ■ |
| 20162665 | Ø80 AIR INLET HORIZONTAL TERMINAL | | ■ | ■ |
| 20162664 | Ø80 HORIZONTAL FLUE TERMINAL | | ■ | ■ |
| 20162295 | Ø80 90° BEND WITH GASKET | | ■ | ■ |
| 20162296 | Ø80 45° BEND WITH GASKET | | ■ | ■ |
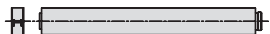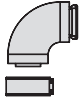
Water-Heaters
# FLUE OPTION FOR STANDARD EFFICIENCY

**⌀80 twin flue system in aluminium for standard-efficiency boilers and water-heaters**

| CODE | DESCRIPTION | IMAGE | Idrabagno Lx 11-13 | Idrabagno Lx 17 |
|---|---|---|---|---|
| 20162298 | Ø80 EXTENSION (500 mm) with GASKET | | ■ | ■ |
| 20162299 | Ø80 EXTENSION (1000 mm) with GASKET | | ■ | ■ |
| 20162300 | Ø80 EXTENSION (1950 mm) with GASKET | | ■ | ■ |
| 20162835 | Ø80 AIR REGULATION FLANGE KIT | | ■ | ■ |
| 20137532 | Ø80 SPACERS FOR PIPE (4 pcs. pack) | | ■ | ■ |

# FLUE OPTION FOR STANDARD EFFICIENCY
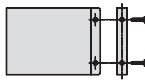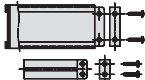
## Ø60/100 concentric flue system in Al/Met for standard-efficiency boilers and water-heaters

| CODE | DESCRIPTION | IMAGE | Idrabagno Lx 11-13 |
|------|-------------|-------|--------------------|
| 20163422 | Ø60/100 VERTICAL TERMINAL; Ø125 EXTERNAL STRAIGHT PIPE | | ■ |
| 20163408 | Ø60/100 HORIZONTAL TERMINAL | | ■ |
| 20163410 | Ø60/100 TELESCOPIC HORIZONTAL TERMINAL EXTENSIBLE FROM 500 TO 800 mm | | ■ |
| 20163391 | Ø60/100 CONCENTRIC EXTENSION (750 mm) | | ■ |
| 20163393 | Ø60/100 CONCENTRIC EXTENSION (1470 mm) | | ■ |
| 20122792 | Ø60/100 90°adapter bend kit for REPLACEMENT * | | ■ |
| 20163333 | Ø60/100 90° CONCENTRIC BEND | | ■ |
| 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.

# FLUE OPTION FOR STANDARD EFFICIENCY

Beretta

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

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

HYBRID SYSTEMS

HEAT PUMPS

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

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

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

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# SOLAR THERMAL AND CYLINDERS »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

SOLAR KEYMARK
Certification

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

## Systems for flat and pitched roof - Brackets not included

**SYSTEMS WITH DOUBLE-COIL HEATER**

| CODE | MODEL | NUMBER OF COLLECTORS | CYLINDER CAPACITY (l) | COLLECTORS DIMENSIONS H x L (mm) | COLLECTORS TOTAL AREA (m²) |
|---|---|---|---|---|---|
| 20207663 | SCF-25/4B A 200/1 | 1 | 208 double coil [1] | 2004 x 1195 | 2,5 |
| 20207664 | SCF-25/4B A 300/2 | 2 | 301 double coil [1] | 2004 x 2390 | 5 |
| 20207657 | SCF-25/4B A 400/3 | 3 | 430 double coil [1] | 2004 x 3585 | 7,5 |

(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.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| CODE | MODEL |
|---|---|
| **ACCESSORIES FOR FLAT ROOF (FR 30-45°)** | |
| 20201443 | Brackets 1 solar collector 2,5m$^2$ "A" FR 30-45° |
| 20201444 | Extension brackets for 1 additional solar collector 2,5m$^2$ "A" FR 30-45° |
| **ACCESSORIES FOR PITCHED ROOF (PR)** | |
| 20201446 | Brackets 1 solar collector 2-2,5m$^2$ "A" undertile PR |
| 20201447 | Brackets 2 solar collectors 2-2,5m$^2$ "A" undertile PR |
| 20201611 | Extension brackets for 1 additional solar collector 2-2,5m$^2$ "A" undertile PR [1] |
| 20201445 | Kit 4 brackets hooks for PR - "A" solar collector |
| 20202639 | Kit 6 brackets hooks for PR - "A" solar collector |
| **HYDRAULIC KIT FOR SOLAR COLLECTOR "A"** | |
| 20201448 | Hydraulic kit for 1 "A" solar collector |
| 20201449 | Hydraulic kit for 2 "A" solar collectors |
| 20201450 | Hydraulic kit for 3 "A" solar collectors |
| 20201451 | Hydraulic kit for 4 "A" solar collectors |
| 20201453 | Hydraulic kit for 5 "A" solar collectors |
| 20201454 | Hydraulic kit for 6 "A" solar collectors |
| 20201455 | Hydraulic kit for 7 "A" solar collectors |
| 20201457 | Hydraulic kit for 8 "A" solar collectors |
| 20201458 | Hydraulic kit for 9 "A" solar collectors |
| 20201459 | Hydraulic kit for 10 "A" solar collectors |

(1) Add this extension brackets only to the code 20201447 (Brackets 2 solar collectors 2-2,5m2 "A" undertile PR)
Note: The above accessories do not include the collector probe, which is included in the EVOSOL accessory (code 20120499) or it can be purchased separately through the SOLAR COLLECTOR PROBE KIT (code 20008787).
For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the Product Catalogue.

**Beretta**

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

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-25/4B A SOLAR COLLECTORS**

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

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-20/4B A AND SCF-25/4B A SOLAR COLLECTORS**

| | BRACKETS 1 COLL. 2-2,5 "A" under tile IR | BRACKETS 2 COLL. 2-2,5 "A" under tile IR | EXTENSION +1 COLL. 2-2,5 A under tile IR | KIT 4 HOOKS FOR IR - COLL. A | KIT 6 HOOKS FOR IR - COLL. A | Hydraulic kit for 1 collector A | Hydraulic kit for 2 collector A | Hydraulic kit for 3 collector A | Hydraulic kit for 4 collector A | Hydraulic kit for 5 collector A | Hydraulic kit for 6 collector A | Hydraulic kit for 7 collector A | Hydraulic kit for 8 collector A | Hydraulic kit for 9 collector A | Hydraulic kit for 10 collector A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201446 | 20201447 | 20201611 | 20201445 | 20202639 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 coll 2-2,5m² TI | 1 | | 1 | 1 | | 1 | | | | | | | | | |
| Kit per 2 coll 2-2,5m² TI | | 1 | | 1 | | | 1 | | | | | | | | |
| Kit per 3 coll 2-2,5m² TI | 1 | 1 | 1 | 1 | | | | 1 | | | | | | | |
| Kit per 4 coll 2-2,5m² TI | 1 | 2 | 2 | 1 | | | | | 1 | | | | | | |
| Kit per 5 coll 2-2,5m² TI | 1 | 3 | 3 | 1 | | | | | | 1 | | | | | |
| Kit per 6 coll 2-2,5m² TI | 1 | 4 | 4 | 1 | | | | | | | 1 | | | | |
| Kit per 7 coll 2-2,5m² TI | 1 | 5 | 5 | 1 | | | | | | | | 1 | | | |
| Kit per 8 coll 2-2,5m² TI | 1 | 6 | 6 | 1 | | | | | | | | | 1 | | |
| Kit per 9 coll 2-2,5m² TI | 1 | 7 | 7 | 1 | | | | | | | | | | 1 | |
| Kit per 10 coll 2-2,5m² TI | 1 | 8 | 8 | 1 | | | | | | | | | | | 1 |

# SCF-25/4B A SYSTEM - SYSTEM COMPOSITION

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## SCF-25/4B A 200/1 (cod. 20207663) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201328 | SCF-25/4B A |
| 1 | 20119552 | IDRA DS 200 FI |
| 1 | 4383059 | 10 kg glycol |
| 1 | 4383052 | 18 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201448 | Hydraulic kit for 1 "A" solar collector |

## SCF-25/4B A 300/2 (cod. 20207664) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201329 | SCF-25/4B A x 2 |
| 1 | 20119553 | IDRA DS 300 FI |
| 1 | 4383059 | 10 kg glycol |
| 1 | 4383052 | 18 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201449 | Hydraulic kit for 2 "A" solar collector |

## SCF-25/4B A 400/3 (cod. 20207657) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201328 | SCF-25/4B A |
| 1 | 20201329 | SCF-25/4B A x 2 |
| 1 | 20119554 | IDRA DS 430 FI (B class) cylinder |
| 1 | 4383085 | 5 kg glycol |
| 1 | 4383059 | 10 kg glycol |
| 1 | 4383053 | 24 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201450 | Hydraulic kit for 3 "A" solar collector |

(1) To complete the installation it is necessary to purchase the complete bracket kits

SOLAR KEYMARK
Certification

**A** Sealed collector with prepainted galvanized steel profile - 2 sq.m
**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

**SYSTEMS WITH DOUBLE-COIL HEATER**

| CODE | MODEL | NUMBER OF COLLECTORS | CYLINDER CAPACITY (l) | COLLECTORS DIMENSIONS H x L (mm) | COLLECTORS TOTAL AREA (m²) |
|---|---|---|---|---|---|
| 20207644 | SCF-20/4B A 200/1 | 1 | 208 double coil | 1818 x 1097 | 1,91 |
| 20207652 | SCF-20/4B A 300/2 | 2 | 301 double coil | 1818 x 2194 | 3,82 |
| 20207654 | SCF-20/4B A 400/3 | 3 | 430 double coil | 1818 x 3291 | 5,73 |
| 20207656 | SCF-20/4B A 500/4 | 4 | 551 double coil | 1818 x 4388 | 7,64 |

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.

# SCF-20/4B A SYSTEM - COMPLETE BRACKET KITS

| CODE | MODEL |
|------|-------|
| **ACCESSORIES FOR FLAT ROOF (FR 30-45°)** | |
| 20201441 | Brackets 1 solar collector 2m² "A" FR 30-45° |
| 20201442 | Extension brackets for 1 additional solar collector  2m² "A" FR 30-45° |
| **ACCESSORIES FOR PITCHED ROOF (PR)** | |
| 20201446 | Brackets 1 solar collector 2-2,5m² "A" undertile PR |
| 20201447 | Brackets 2 solar collectors 2-2,5m² "A" undertile PR |
| 20201611 | Extension brackets for 1 additional solar collector 2-2,5m² "A" undertile PR [1] |
| 20201445 | Kit 4 brackets hooks for PR - "A" solar collector |
| 20202639 | Kit 6 brackets hooks for PR - "A" solar collector |
| **HYDRAULIC KIT FOR SOLAR COLLECTOR "A"** | |
| 20201448 | Hydraulic kit for 1 "A" solar collector |
| 20201449 | Hydraulic kit for 2 "A" solar collectors |
| 20201450 | Hydraulic kit for 3 "A" solar collectors |
| 20201451 | Hydraulic kit for 4 "A" solar collectors |
| 20201453 | Hydraulic kit for 5 "A" solar collectors |
| 20201454 | Hydraulic kit for 6 "A" solar collectors |
| 20201455 | Hydraulic kit for 7 "A" solar collectors |
| 20201457 | Hydraulic kit for 8 "A" solar collectors |
| 20201458 | Hydraulic kit for 9 "A" solar collectors |
| 20201459 | Hydraulic kit for 10 "A" solar collectors |

(1) Add this extension brackets only to the code 20201447 (Brackets 2 solar collectors 2-2,5m2 "A" undertile PR)
Note: The above accessories do not include the collector probe, which is included in the EVOSOL accessory (code 20120499) or it can be purchased separately through the SOLAR COLLECTOR PROBE KIT (code 20008787).
For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the Product Catalogue.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# SCF-20/4B A SYSTEM - COMPLETE BRACKET KITS

Beretta

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-25/4B A SOLAR COLLECTORS**

| | Brackets 1 coll. 2m² "A" FR 30-45 | Extension +1 coll. 2m² "A" FR 30-45 | Hydraulic kit for 1 collector A | Hydraulic kit for 2 collectors A | Hydraulic kit for 3 collectors A | Hydraulic kit for 4 collectors A | Hydraulic kit for 5 collectors A | Hydraulic kit for 6 collectors A | Hydraulic kit for 7 collectors A | Hydraulic kit for 8 collectors A | Hydraulic kit for 9 collectors A | Hydraulic kit for 10 collectors A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201441 | 20201442 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 coll 2m² TP 30-45° | 1 | | 1 | | | | | | | | | |
| Kit for 2 coll 2m² TP 30-45° | 1 | 1 | | 1 | | | | | | | | |
| Kit for3 coll 2m² TP 30-45° | 1 | 2 | | | 1 | | | | | | | |
| Kit for 4 coll 2m² TP 30-45° | 1 | 3 | | | | 1 | | | | | | |
| Kit for 5 coll 2m² TP 30-45° | 1 | 4 | | | | | 1 | | | | | |
| Kit for 6 coll 2m² TP 30-45° | 1 | 5 | | | | | | 1 | | | | |
| Kit for 7 coll 2m² TP 30-45° | 1 | 6 | | | | | | | 1 | | | |
| Kit for 8 coll 2m² TP 30-45° | 1 | 7 | | | | | | | | 1 | | |
| Kit for 9 coll 2m² TP 30-45° | 1 | 8 | | | | | | | | | 1 | |
| Kit for 10 coll 2m² TP 30-45° | 1 | 9 | | | | | | | | | | 1 |

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-20/4B A AND SCF-25/4B A SOLAR COLLECTORS**

| | BRACKETS 1 COLL. 2-2,5 "A" under tile IR | BRACKETS 2 COLL. 2-2,5 "A" under tile IR | EXTENSION +1 COLL. 2-2,5 A under tile IR | KIT 4 HOOKS FOR IR - COLL. A | KIT 6 HOOKS FOR IR - COLL. A | Hydraulic kit for 1 collector A | Hydraulic kit for 2 collector A | Hydraulic kit for 3 collector A | Hydraulic kit for 4 collector A | Hydraulic kit for 5 collector A | Hydraulic kit for 6 collector A | Hydraulic kit for 7 collector A | Hydraulic kit for 8 collector A | Hydraulic kit for 9 collector A | Hydraulic kit for 10 collector A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201446 | 20201447 | 20201611 | 20201445 | 20202639 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 coll 2-2,5m² TI | 1 | | | 1 | | 1 | | | | | | | | | |
| Kit for 2 coll 2-2,5m² TI | | 1 | | | 1 | | 1 | | | | | | | | |
| Kit for3 coll 2-2,5m² TI | | 1 | 1 | 1 | 1 | | | 1 | | | | | | | |
| Kit for4 coll 2-2,5m² TI | | 1 | 2 | 2 | 1 | | | | 1 | | | | | | |
| Kit for 5 coll 2-2,5m² TI | | 1 | 3 | 3 | 1 | | | | | 1 | | | | | |
| Kit for 6 coll 2-2,5m² TI | | 1 | 4 | 4 | 1 | | | | | | 1 | | | | |
| Kit for 7 coll 2-2,5m² TI | | 1 | 5 | 5 | 1 | | | | | | | 1 | | | |
| Kit for 8 coll 2-2,5m² TI | | 1 | 6 | 6 | 1 | | | | | | | | 1 | | |
| Kit for 9 coll 2-2,5m² TI | | 1 | 7 | 7 | 1 | | | | | | | | | 1 | |
| Kit for 10 coll 2-2,5m² TI | | 1 | 8 | 8 | 1 | | | | | | | | | | 1 |

# SCF-20/4B A SYSTEM - SYSTEM COMPOSITION

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## SCF-20/4B A 200/1 (cod. 20207644) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201335 | SCF-20/4B A |
| 1 | 20120499 | Solar control box EVOSOL with probes |
| 1 | 20117881 | IDRA DS 200 (B class) cylinder |
| 1 | 20116162 | 7,5 m CONNECT SOLAR R - only return hydraulic group |
| 1 | 4383085 | 5 kg glycol |
| 1 | 4383052 | 18 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201448 | Hydraulic kit for 1 "A" solar collector |

(1) To complete the installation it is necessary to purchase the complete bracket kits

## SCF-20/4B A 300/2 (cod. 20207652) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201336 | SCF-20/4B A x 2 |
| 1 | 20120499 | Solar control box EVOSOL with probes |
| 1 | 20117882 | IDRA DS 300 (B class) cylinder |
| 1 | 20116162 | 7,5 m CONNECT SOLAR R - only return hydraulic group |
| 1 | 4383085 | 5 kg glycol |
| 1 | 4383052 | 18 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201449 | Hydraulic kit for 2 "A" solar collector |

(1) To complete the installation it is necessary to purchase the complete bracket kits

## SCF-20/4B A 400/3 (cod.20207654) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 1 | 20201335 | SCF-20/4B A |
| 1 | 20201336 | SCF 20/4B A x 2 |
| 1 | 20120499 | Solar control box EVOSOL with probes |
| 1 | 20117883 | IDRA DS 430 (B class) cylinder |
| 1 | 20116162 | 7,5 m CONNECT SOLAR R - only return hydraulic group |
| 1 | 20009190 | 2,5 kg glycol |
| 1 | 4383059 | 10 kg glycol |
| 1 | 4383053 | 24 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201450 | Hydraulic kit for 3 "A" solar collector |

(1) To complete the installation it is necessary to purchase the complete bracket kits

## SCF-20/4B A 500/4 (cod.20207656) [1]

| QUANTITY | CODE | DESCRIPTION |
|---|---|---|
| 2 | 20201336 | SCF 20/4B A x 2 |
| 1 | 20120499 | Solar control box EVOSOL with probes |
| 1 | 20117884 | IDRA DS 550 (B class) cylinder |
| 1 | 20116162 | 7,5 m CONNECT SOLAR R - only return hydraulic group |
| 1 | 4383085 | 5 kg glycol |
| 1 | 4383059 | 10 kg glycol |
| 1 | 4383053 | 24 lt expansion vessel |
| 1 | 20020778 | 1" mixing valve |
| 1 | 20201451 | Hydraulic kit for 4 "A" solar collector |

(1) To complete the installation it is necessary to purchase the complete bracket kits

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Natural circulation system
# NB-SOL-A SYSTEM

**Beretta**

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, brackets, fittings and glycol.
- Hight selective absorber surface.
- Ease of functioning: no need of any additional components such as a circulator or an electronic controller.
- Collector stagnation temperature: 180 °C.
- Magnesium anode and electrical resistance included with the standard equipment.
- DHW and solar safety valves (10 bar and 2.5 bar).
- Enamelled double-walled steel cylinder with polyurethane insulation.
- NB-SOL-A system can be matched with combi wall-hung boilers.
- Solar panels with Solar Keymark certification.
- Solar systems with Solar Keymark certification.
- Systems conform to the EN12975 and EN12976 standards.

## Kit for FLAT ROOF with 45° of inclination

| CODE | MODEL | NUMBER OF COLLECTORS | CYLINDER CAPACITY (litres) | COLLECTORS DIMENSIONS H x L (mm) | COLLECTORS TOTAL AREA (m²) |
|---|---|---|---|---|---|
| 20202410 | NB-SOL-A 160/2,5 TP | 1 | 151 | 2020 x 1235 x 85 | 2,49 |
| 20202411 | NB-SOL-A 200/2,5 TP | 1 | 192 | 2020 x 1235 x 85 | 2,49 |
| 20202412 | NB-SOL-A 200/4 TP | 2 | 192 | 1625 x 1235 x 85 | 4 |
| 20202414 | NB-SOL-A 300/4 TP | 2 | 295 | 1625 x 1235 x 85 | 4 |
| 20202415 | NB-SOL-A 300/5 TP | 2 | 295 | 2020 x 1235 x 85 | 4,98 |

## Kit for INCLINED ROOF

| CODE | MODEL | NUMBER OF COLLECTORS | CYLINDER CAPACITY (litres) | COLLECTORS DIMENSIONS H x L (mm) | COLLECTORS TOTAL AREA (m²) |
|---|---|---|---|---|---|
| 20202229 | NB-SOL-A 160/2,5 TI | 1 | 151 | 2020 x 1235 x 85 | 2,49 |
| 20202231 | NB-SOL-A 200/2,5 TI | 1 | 192 | 2020 x 1235 x 85 | 2,49 |
| 20202233 | NB-SOL-A 200/4 TI | 2 | 192 | 1625 x 1235 x 85 | 4 |
| 20202238 | NB-SOL-A 300/4 TI | 2 | 295 | 1625 x 1235 x 85 | 4 |
| 20202240 | NB-SOL-A 300/5 TI | 2 | 295 | 2020 x 1235 x 85 | 4,98 |

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20020778 | 3/4" thermostatic mixing valve |
| 4383052 | 18 lt expansion vessel with bracket |
| 4383053 | 24 lt expansion vessel |

**NB-SOL - TP**
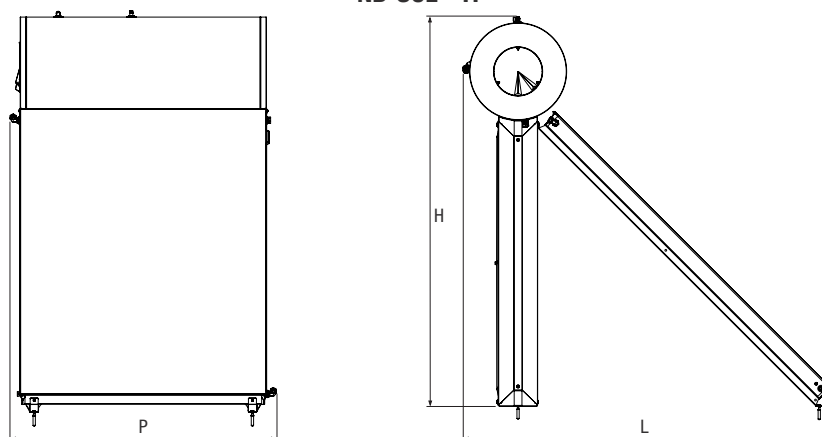


**NB-SOL - TI**
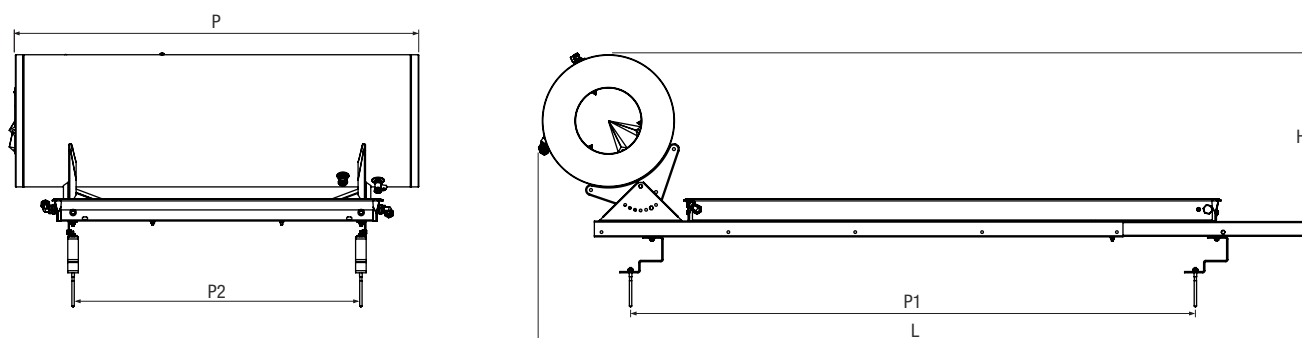


| DESCRIPTION | 160/2,5 TP | 200/2,5 TP | 200/4 TP | 300/4 TP | 300/5 TP | 160/2,5 TI | 200/2,5 TI | 200/4 TI | 300/4 TI | 300/5 TI |
|-------------|------------|------------|----------|----------|----------|------------|------------|----------|----------|----------|
| L (mm) | 1903 | 1903 | 1626 | 1626 | 1903 | 2936 | 2936 | 2948 | 2948 | 2948 |
| P (mm) | 1314 | 1526 | 2578 | 2578 | 2524 | 1314 | 1526 | 2498 | 2498 | 2498 |
| H (mm) | 2006 | 2006 | 1727 | 1727 | 2006 | 689 | 689 | 689 | 689 | 689 |
| P1 (mm) | | | | | | 2137 | 2137 | 2137 | 2137 | 2137 |
| P2 (mm) | | | | | | 1089 | 1089 | 1089 | 1089 | 1089 |
| Liquid (l) | 2 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 4 |

# NATURAL CIRCULATION SYSTEM FOR DHW PRODUCTION WITH COMBINED BOILER INTEGRATION

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
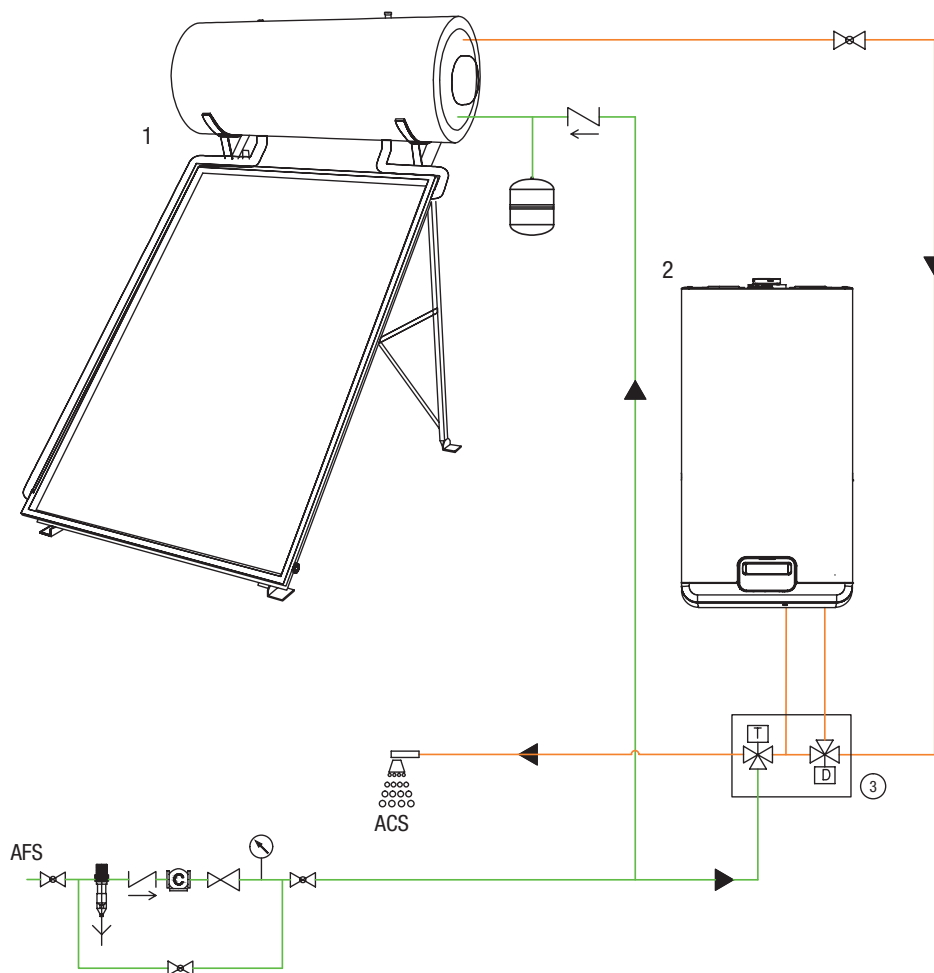
Basic layout purely for illustrative purposes

## Key:

**01**  NB-SOL A natural circulation system with SCF-25/4B A and SCF-20/4B Aprofiled collectors
**02**  EXCLUSIVE C condensing boiler
**03**  Domestic water diverting/mixing valve

# NATURAL CIRCULATION SYSTEM FOR DHW PRODUCTION
# WITH COMBINED BOILER INTEGRATION
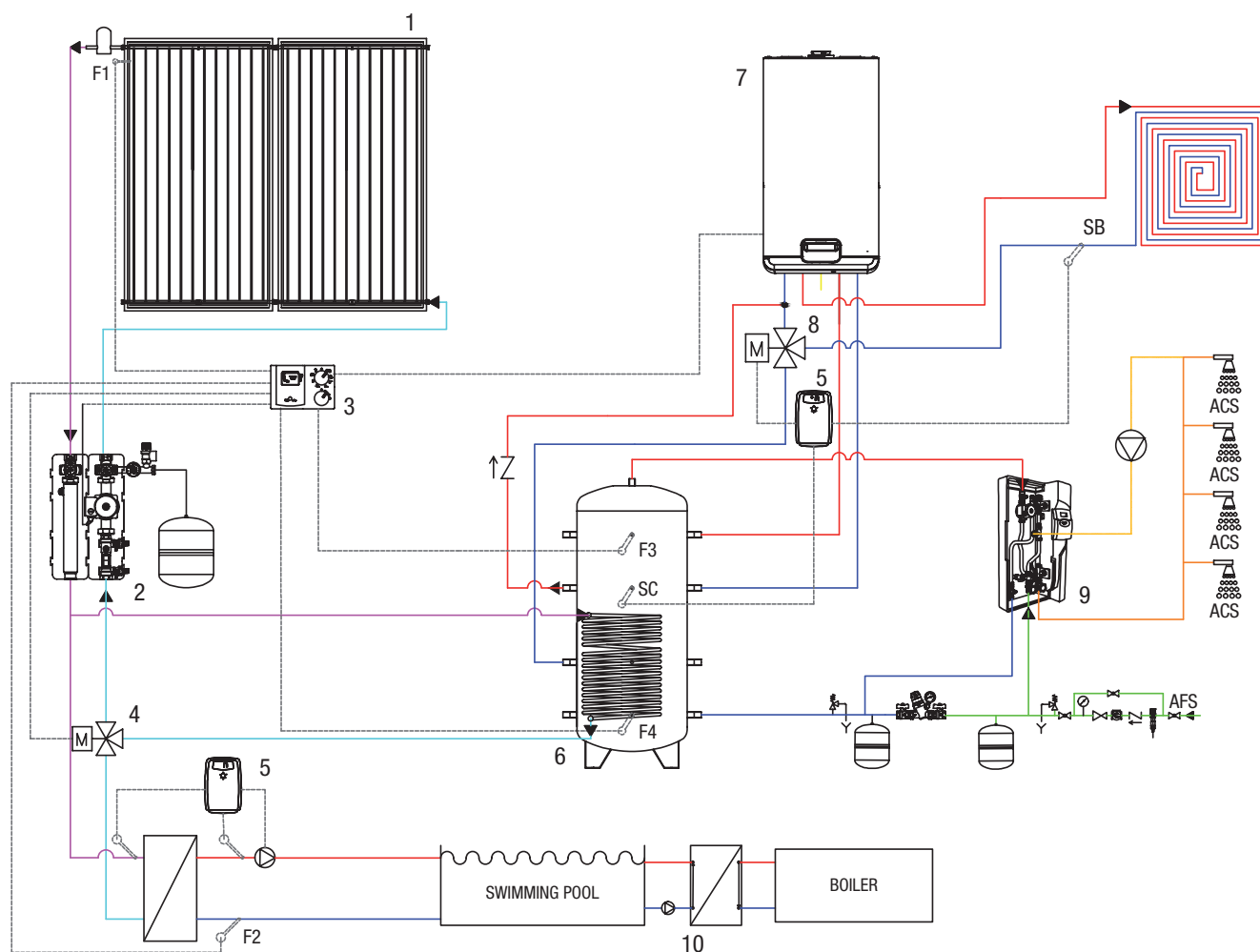
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Solar collectors for forced circulation systems
## SCF-25/4B A

**Beretta**

SOLAR KEYMARK
certification

- Sealed solar collector with pre-painted galvanized steel frame - 2,5m²
- Connection between solar collectors with 4 tightening fittings
- Highly-selective absorber area with TiNOx treatment
- Insulation in glass wool (30mm)
- Collector absorption: 95%
- Collector stagnation temperature: 180°C
- Possibility to connect up to 10 vertical solar collectors
- This solar collector conforms to the EN 12975
- Solar Keymark Certification

## Sealed solar collector with pre-painted galvanized steel frame - 2,5 m²

| CODE | MODEL | DIMENSION H x L x D (mm) | COLLECTOR TOTAL AREA (m²) |
|---|---|---|---|
| 20201328 | SCF 25/4B A | 2020 x 1235 x 85 | 2,49 |

## Packages

| CODE | MODEL |
|---|---|
| 20201329 | SCF-25/4B A x 2 |
| 20201330 | SCF-25/4B A x 5 |
| 20201805 | SCF-25/4B A x 7 |

Collector Flow

1235

2020

85

Glass thickness 3,2 mm

Ventilation hole

Connection Ø 22 mm

Collector Return
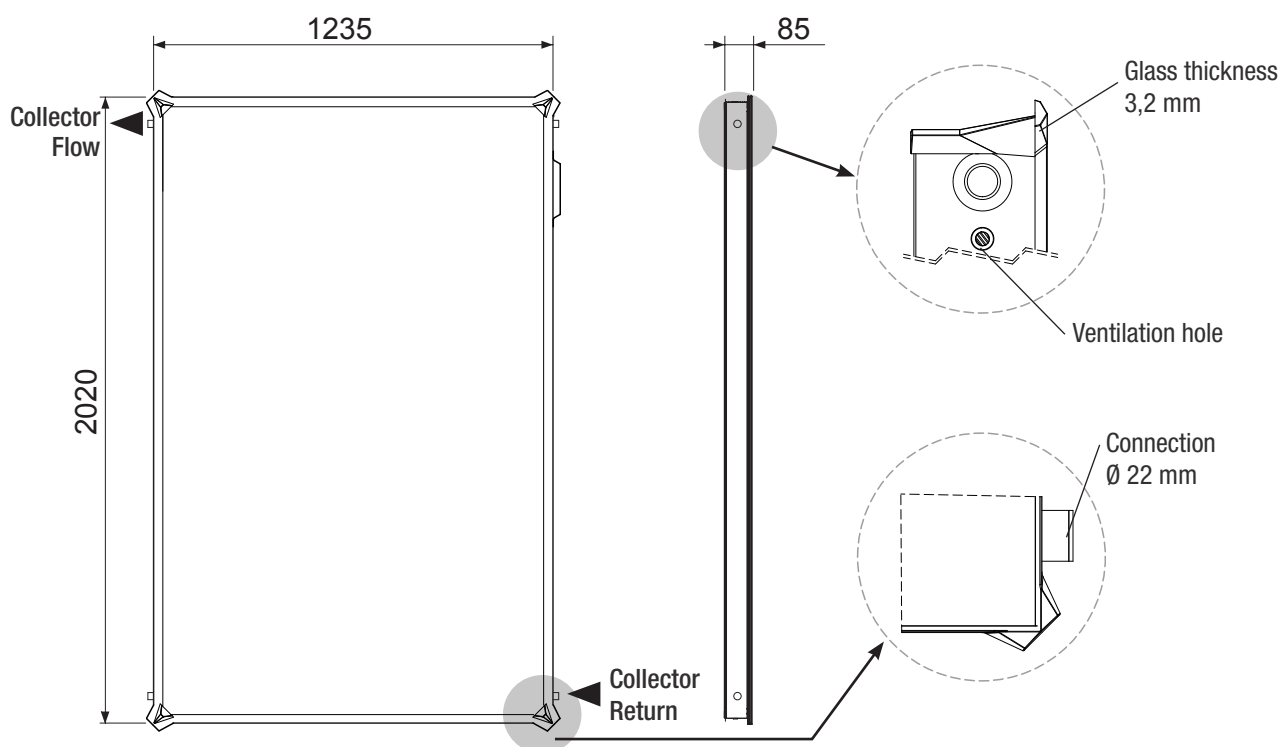
| DESCRIPTION | SOLAR COLLECTOR SCF-25/4B A | U.D.M. |
|---|---|---|
| Total area | 2,49 | m² |
| Exposed area | 2,38 | m² |
| Effective absorption area | 2,37 | m² |
| Connections | G 1 | - |
| Weight (empty) | 35 | kg |
| Liquid content | 1,55 | l |
| Glass thickness | 3,2 | mm |
| Absorption ($\alpha$) | 95 | % |
| Emissions ($\varepsilon$) | 5 | % |
| IAM (50°) | 0,91 | - |
| $\eta$ coll. (a 1000 W/m²) | 60 | % |
| Maximum permitted pressure | 10 | bar |

Solar collectors for forced circulation systems
## SCF-25/4B A

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories for vertical installations of the SCF - 25/4B A solar collector

| CODE | MODEL |
|---|---|
| **ACCESSORIES FOR FLAT ROOF (FR 30-45°)** | |
| 20201443 | Brackets 1 solar collector 2,5 m² "A" FR 30-45° |
| 20201444 | Extension brackets for 1 additional solar collector 2,5 m² "A" FR 30-45° |
| **ACCESSORIES FOR PITCHED ROOF (PR)** | |
| 20201446 | Brackets 1 solar collector 2-2,5 m² "A" undertile PR |
| 20201447 | Brackets 2 solar collectors 2-2,5 m² "A" undertile PR |
| 20201611 | Extension brackets for 1 additional solar collector 2-2,5 m² "A" undertile PR [1] |
| 20201445 | Kit 4 brackets hooks for PR - "A" solar collector |
| 20202639 | Kit 6 brackets hooks for PR - "A" solar collector |
| **HYDRAULIC KIT FOR SOLAR COLLECTOR "A"** | |
| 20201448 | Hydraulic kit for 1 "A" solar collector |
| 20201449 | Hydraulic kit for 2 "A" solar collectors |
| 20201450 | Hydraulic kit for 3 "A" solar collectors |
| 20201451 | Hydraulic kit for 4 "A" solar collectors |
| 20201453 | Hydraulic kit for 5 "A" solar collectors |
| 20201454 | Hydraulic kit for 6 "A" solar collectors |
| 20201455 | Hydraulic kit for 7 "A" solar collectors |
| 20201457 | Hydraulic kit for 8 "A" solar collectors |
| 20201458 | Hydraulic kit for 9 "A" solar collectors |
| 20201459 | Hydraulic kit for 10 "A" solar collectors |

[1] Add this extension brackets only to the code 20201447 (Brackets 2 solar collectors 2-2,5m2 "A" undertile PR)
Note: The above accessories do not include the collector probe, which is included in the EVOSOL accessory (code 20120499) or it can be purchased separately through the SOLAR COLLECTOR PROBE KIT (code 20008787).
For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the Product Catalogue.

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-25/4B A SOLAR COLLECTORS**

| | Brackets 1 collector 2,5 m² "A" FR 30-45° | Ext. brackets for 1 add. solar collector 2,5 m² "A" FR 30-45° | Hydraulic kit for 1 "A" solar collector | Hydraulic kit for 2 "A" solar collector | Hydraulic kit for 3 "A" solar collector | Hydraulic kit for 4 "A" solar collector | Hydraulic kit for 5 "A" solar collector | Hydraulic kit for 6 "A" solar collector | Hydraulic kit for 7 "A" solar collector | Hydraulic kit for 8 "A" solar collector | Hydraulic kit for 9 "A" solar collector | Hydraulic kit for 10 "A" solar collector |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201443 | 20201444 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 solar collector 2,5 m² (TP 30-45°) | 1 | | 1 | | | | | | | | | |
| Kit for 2 solar collectors 2,5 m² (TP 30-45°) | 1 | 1 | | 1 | | | | | | | | |
| Kit for 3 solar collectors 2,5 m² (TP 30-45°) | 1 | 2 | | | 1 | | | | | | | |
| Kit for 4 solar collectors 2,5 m² (TP 30-45°) | 1 | 3 | | | | 1 | | | | | | |
| Kit for 5 solar collectors 2,5 m² (TP 30-45°) | 1 | 4 | | | | | 1 | | | | | |
| Kit for 6 solar collectors 2,5 m² (TP 30-45°) | 1 | 5 | | | | | | 1 | | | | |
| Kit for 7 solar collectors 2,5 m² (TP 30-45°) | 1 | 6 | | | | | | | 1 | | | |
| Kit for 8 solar collectors 2,5 m² (TP 30-45°) | 1 | 7 | | | | | | | | 1 | | |
| Kit for 9 solar collectors 2,5 m² (TP 30-45°) | 1 | 8 | | | | | | | | | 1 | |
| Kit for 10 solar collectors 2,5 m² (TP 30-45°) | 1 | 9 | | | | | | | | | | 1 |

**COMPONENTS FOR VERTICAL INSALLATIONS ON PITCHED ROOF WITH UNDERTILE BRACKET FOR SCF-20/4B A AND SCF-25/4B A SOLAR COLLECTORS**

| | Brackets 1 solar collector 2-2,5 m² "A" undertile PR | Brackets 2 solar collectors 2-2,5 m² "A" undertile PR | Ext. brackets for 1 add. solar coll. 2-2,5 m² "A" undertile PR [1] | Kit 4 brackets hooks for PR - "A" solar collector | Kit 6 brackets hooks for PR - "A" solar collector | Hydraulic kit for 1 "A" solar collector | Hydraulic kit for 2 "A" solar collector | Hydraulic kit for 3 "A" solar collector | Hydraulic kit for 4 "A" solar collector | Hydraulic kit for 5 "A" solar collector | Hydraulic kit for 6 "A" solar collector | Hydraulic kit for 7 "A" solar collector | Hydraulic kit for 8 "A" solar collector | Hydraulic kit for 9 "A" solar collector | Hydraulic kit for 10 "A" solar collector |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201446 | 20201447 | 20201611 | 20201445 | 20202639 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 solar coll. 2-2,5 m² (PR) | 1 | | | 1 | | 1 | | | | | | | | | |
| Kit for 2 solar coll. 2-2,5 m² (PR) | | 1 | | 1 | | | 1 | | | | | | | | |
| Kit for 3 solar coll. 2-2,5 m² (PR) | | 1 | 1 | 1 | | | | 1 | | | | | | | |
| Kit for 4 solar coll. 2-2,5 m² (PR) | | 1 | 2 | 2 | | | | | 1 | | | | | | |
| Kit for 5 solar coll. 2-2,5 m² (PR) | | 1 | 3 | 3 | | | | | | 1 | | | | | |
| Kit for 6 solar coll. 2-2,5 m² (PR) | | 1 | 4 | 4 | | | | | | | 1 | | | | |
| Kit for 7 solar coll. 2-2,5 m² (PR) | | 1 | 5 | 5 | | | | | | | | 1 | | | |
| Kit for 8 solar coll. 2-2,5 m² (PR) | | 1 | 6 | 6 | | | | | | | | | 1 | | |
| Kit for 9 solar coll. 2-2,5 m² (PR) | | 1 | 7 | 7 | | | | | | | | | | 1 | |
| Kit for 10 solar coll. 2-2,5 m² (PR) | | 1 | 8 | 8 | | | | | | | | | | | 1 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

Solar collectors for forced circulation systems

# SCF-20/4B A

**Beretta**

SOLAR KEYMARK
certification

- Sealed solar collector with pre-painted galvanized steel frame - 2m²
- Connection between solar collectors with 4 tightening fittings
- Highly-selective absorber area with TiNOx treatment
- Insulation in glass wool (30mm)
- Collector absorption: 95%
- Collector stagnation temperature: 180°C
- Possibility to connect up to 10 vertical solar collectors
- This solar collector conforms to the EN 12975
- Solar Keymark Certification

## Sealed solar collector with pre-painted galvanized steel frame - 2 m²

| CODE | MODEL | DIMENSION H x L x D (mm) | COLLECTOR TOTAL AREA (m²) |
|---|---|---|---|
| 20201335 | SCF 20/4B A | 1625 x 1235 x 85 | 2 |

## Packages

| CODE | MODEL |
|---|---|
| 20201336 | SCF-20/4B A x 2 |
| 20201337 | SCF-20/4B A x 7 |

# SCF-20/4B A

Collector
Flow

1235

1625

85

Glass thickness
3,2 mm

Ventilation hole

Connection
Ø 22 mm
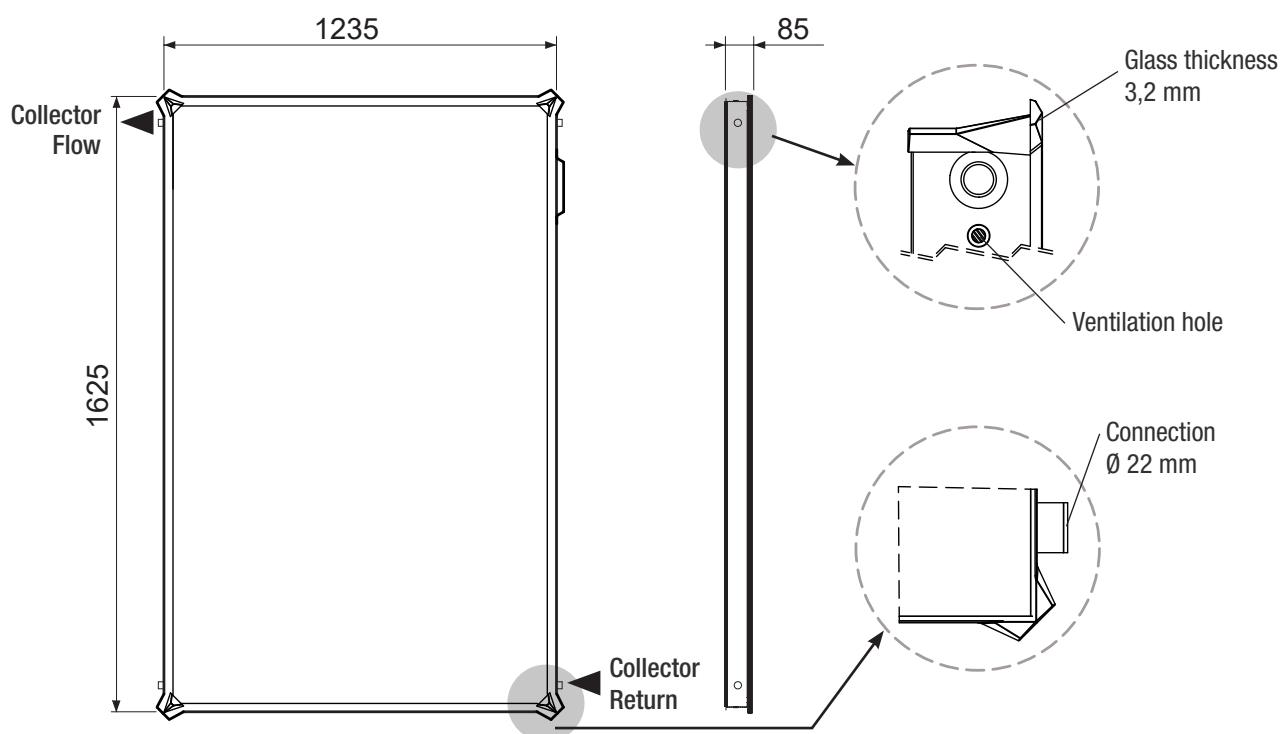
Collector
Return

| DESCRIPTION | SOLAR COLLECTOR SCF-25/4B A | U.D.M. |
|---|---|---|
| Total area | 2 | m$^2$ |
| Exposed area | 1,9 | m$^2$ |
| Effective absorption area | 1,9 | m$^2$ |
| Connections | G 1 | - |
| Weight (empty) | 29 | kg |
| Liquid content | 1,3 | l |
| Glass thickness | 3,2 | mm |
| Absorption ($\alpha$) | 95 | % |
| Emissions ($\varepsilon$) | 5 | % |
| IAM (50°) | 0,91 | - |
| $\eta$ coll. (a 1000 W/m$^2$) | 60 | % |
| Maximum permitted pressure | 10 | bar |

Solar collectors for forced circulation systems
# SCF-20/4B A

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories for vertical installations of the SCF - 20/4B A solar collector

| CODE | MODEL |
|---|---|
| **ACCESSORIES FOR FLAT ROOF (FR 30-45°)** | |
| 20201441 | Brackets 1 solar collector 2 m² "A" FR 30-45° |
| 20201442 | Extension brackets for 1 additional solar collector 2 m² "A" FR 30-45° |
| **ACCESSORIES FOR PITCHED ROOF (PR)** | |
| 20201446 | Brackets 1 solar collector 2-2,5 m² "A" undertile PR |
| 20201447 | Brackets 2 solar collectors 2-2,5 m² "A" undertile PR |
| 20201611 | Extension brackets for 1 additional solar collector 2-2,5 m² "A" undertile PR [1] |
| 20201445 | Kit 4 brackets hooks for PR - "A" solar collector |
| 20202639 | Kit 6 brackets hooks for PR - "A" solar collector |
| **HYDRAULIC KIT FOR SOLAR COLLECTOR "A"** | |
| 20201448 | Hydraulic kit for 1 "A" solar collector |
| 20201449 | Hydraulic kit for 2 "A" solar collectors |
| 20201450 | Hydraulic kit for 3 "A" solar collectors |
| 20201451 | Hydraulic kit for 4 "A" solar collectors |
| 20201453 | Hydraulic kit for 5 "A" solar collectors |
| 20201454 | Hydraulic kit for 6 "A" solar collectors |
| 20201455 | Hydraulic kit for 7 "A" solar collectors |
| 20201457 | Hydraulic kit for 8 "A" solar collectors |
| 20201458 | Hydraulic kit for 9 "A" solar collectors |
| 20201459 | Hydraulic kit for 10 "A" solar collectors |

(1) Add this extension brackets only to the code 20201447 (Brackets 2 solar collectors 2-2,5m2 "A" undertile PR)
Note: The above accessories do not include the collector probe, which is included in the EVOSOL accessory (code 20120499) or it can be purchased separately through the SOLAR COLLECTOR PROBE KIT (code 20008787).
For other accessories, refer to the SOLAR THERMAL ACCESSORIES section of the Product Catalogue.

**COMPONENTS FOR VERTICAL INSTALLATIONS AT 30 OR 45° ON FLAT ROOF FOR SCF-20/4B A SOLAR COLLECTORS**

| | Brackets 1 collector 2 m² "A" FR 30-45° | Ext. brackets for 1 add. solar collector 2 m² "A" FR 30-45° | Hydraulic kit for 1 "A" solar collector | Hydraulic kit for 2 "A" solar collector | Hydraulic kit for 3 "A" solar collector | Hydraulic kit for 4 "A" solar collector | Hydraulic kit for 5 "A" solar collector | Hydraulic kit for 6 "A" solar collector | Hydraulic kit for 7 "A" solar collector | Hydraulic kit for 8 "A" solar collector | Hydraulic kit for 9 "A" solar collector | Hydraulic kit for 10 "A" solar collector |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201441 | 20201442 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 solar collector 2 m² (TP 30-45°) | 1 | | 1 | | | | | | | | | |
| Kit for 2 solar collectors 2 m² (TP 30-45°) | 1 | 1 | | 1 | | | | | | | | |
| Kit for 3 solar collectors 2 m² (TP 30-45°) | 1 | 2 | | | 1 | | | | | | | |
| Kit for 4 solar collectors 2 m² (TP 30-45°) | 1 | 3 | | | | 1 | | | | | | |
| Kit for 5 solar collectors 2 m² (TP 30-45°) | 1 | 4 | | | | | 1 | | | | | |
| Kit for 6 solar collectors 2 m² (TP 30-45°) | 1 | 5 | | | | | | 1 | | | | |
| Kit for 7 solar collectors 2 m² (TP 30-45°) | 1 | 6 | | | | | | | 1 | | | |
| Kit for 8 solar collectors 2 m² (TP 30-45°) | 1 | 7 | | | | | | | | 1 | | |
| Kit for 9 solar collectors 2 m² (TP 30-45°) | 1 | 8 | | | | | | | | | 1 | |
| Kit for 10 solar collectors 2 m² (TP 30-45°) | 1 | 9 | | | | | | | | | | 1 |

**COMPONENTS FOR VERTICAL INSALLATIONS ON PITCHED ROOF WITH UNDERTILE BRACKET FOR SCF-20/4B A AND SCF-25/4B A SOLAR COLLECTORS**

| | Brackets 1 solar collector 2-2,5 m² "A" undertile PR | Brackets 2 solar collectors 2-2,5 m² "A" undertile PR | Ext. brackets for 1 add. solar coll. 2-2,5 m² "A" undertile PR [1] | Kit 4 brackets hooks for PR - "A" solar collector | Kit 6 brackets hooks for PR - "A" solar collector | Hydraulic kit for 1 "A" solar collector | Hydraulic kit for 2 "A" solar collector | Hydraulic kit for 3 "A" solar collector | Hydraulic kit for 4 "A" solar collector | Hydraulic kit for 5 "A" solar collector | Hydraulic kit for 6 "A" solar collector | Hydraulic kit for 7 "A" solar collector | Hydraulic kit for 8 "A" solar collector | Hydraulic kit for 9 "A" solar collector | Hydraulic kit for 10 "A" solar collector |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20201446 | 20201447 | 20201611 | 20201445 | 20202639 | 20201448 | 20201449 | 20201450 | 20201451 | 20201453 | 20201454 | 20201455 | 20201457 | 20201458 | 20201459 |
| Kit for 1 solar coll. 2-2,5 m² (PR) | 1 | | | 1 | | 1 | | | | | | | | | |
| Kit for 2 solar coll. 2-2,5 m² (PR) | | 1 | | 1 | | | 1 | | | | | | | | |
| Kit for 3 solar coll. 2-2,5 m² (PR) | | 1 | 1 | 1 | | | | 1 | | | | | | | |
| Kit for 4 solar coll. 2-2,5 m² (PR) | | 1 | 2 | 2 | 1 | | | | 1 | | | | | | |
| Kit for 5 solar coll. 2-2,5 m² (PR) | | 1 | 3 | 3 | 1 | | | | | 1 | | | | | |
| Kit for 6 solar coll. 2-2,5 m² (PR) | | 1 | 4 | 4 | 1 | | | | | | 1 | | | | |
| Kit for 7 solar coll. 2-2,5 m² (PR) | | 1 | 5 | 5 | 1 | | | | | | | 1 | | | |
| Kit for 8 solar coll. 2-2,5 m² (PR) | | 1 | 6 | 6 | 1 | | | | | | | | 1 | | |
| Kit for 9 solar coll. 2-2,5 m² (PR) | | 1 | 7 | 7 | 1 | | | | | | | | | 1 | |
| Kit for 10 solar coll. 2-2,5 m² (PR) | | 1 | 8 | 8 | 1 | | | | | | | | | | 1 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Solar cylinders

# IDRA DS FI - WITH LOW ENERGY HYDRAULIC GROUP AND SOLAR CONTROL BOX

**Beretta**

- 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 COIL CYLINDERS** | | | | | |
| 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 |
|---|---|---|---|
| 20020778 | 1" thermostatic mixing valve with 3/4" adapter | 20123853 | Electrical anode kit (1) |
| 20119911 | 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.

# IDRA DS FI - WITH LOW ENERGY HYDRAULIC GROUP AND SOLAR CONTROL BOX

**⍟ Beretta**



| Label | Description | Group |
|---|---|---|
| M | - Flow | Solar |
| R | - Return | Solar |
| MC | - Flow | Boiler |
| RC | - Return | Boiler |

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
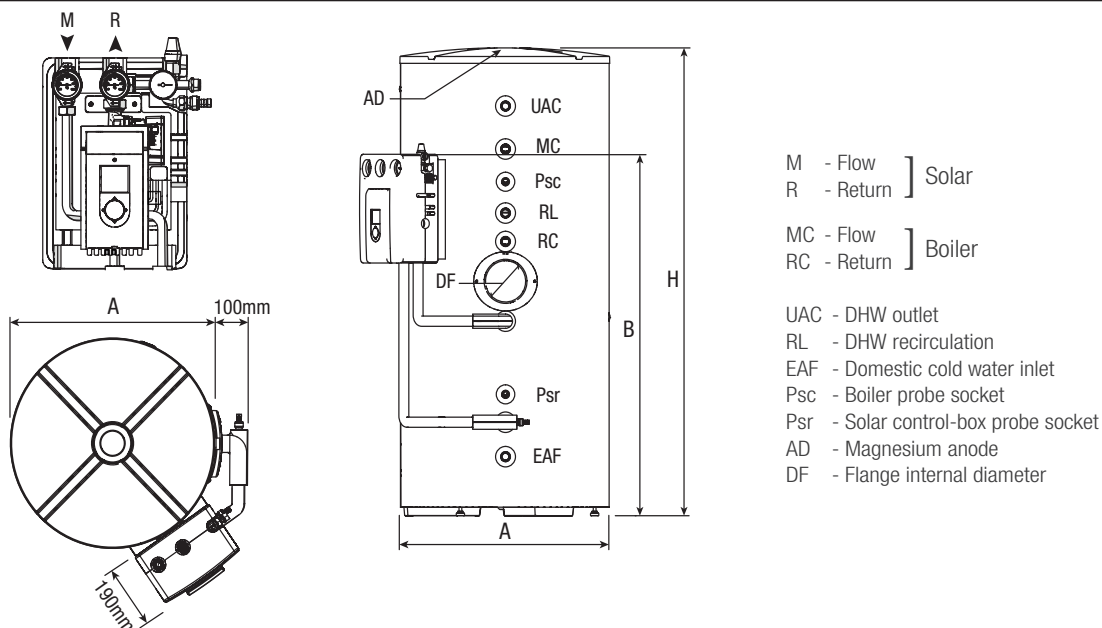
## Technical specifications

| 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 | m$^2$ |
| Upper coil exchange surface | 0.7 | 0.8 | 1.0 | m$^2$ |
| Maximum operating temperature | | 99 | | °C |
| Net weight | 100 | 122 | 145 | kg |
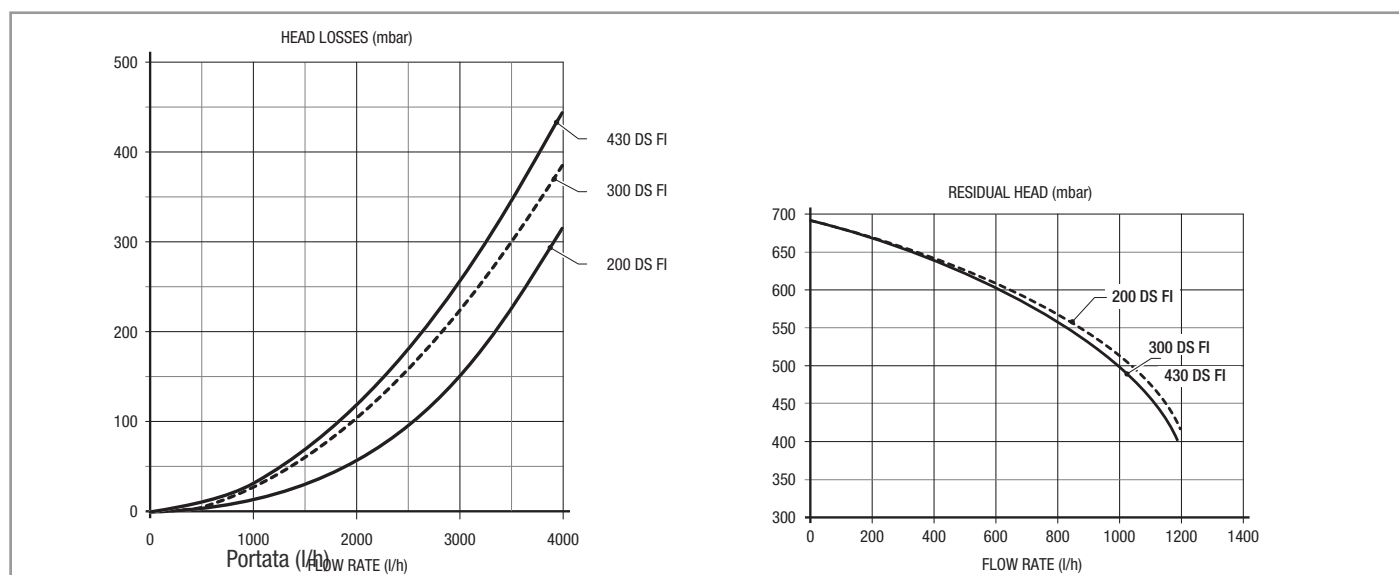
- Enamelled (double layer) steel solar cylinder
- Double coil heat-exchanger
- Maximum working temperature: 99°C
- High heat exchange capacity of the coils
- Suitable for flanged electrical resistance
- Coils and cylinders maximum working pressure: 10 bar (only Idra DS 200 - 550)
- Coils and cylinders 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 | DIMENSIONS 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 | - |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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) |
| 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.

# 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
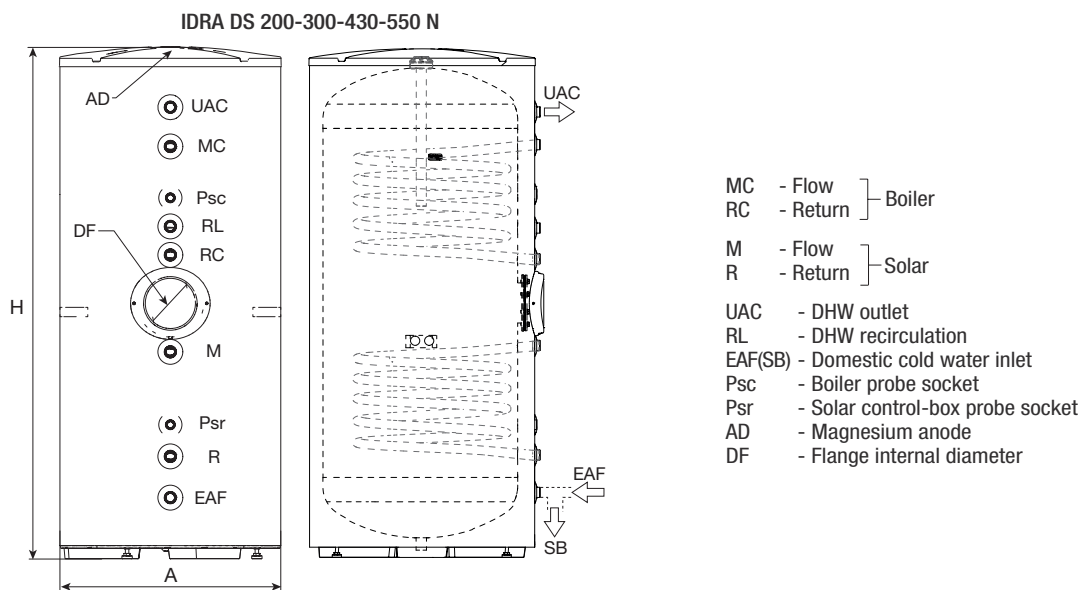
## Technical specifications

| 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 | m² |
| Upper coil exchange surface | 0.7 | 0.8 | 1.0 | 1.0 | m² |
| Net weight | 86 | 108 | 146 | 171 | kg |

Heat losses
UPPER COIL

430 DS
550 DS
300 DS
200 DS

Heat losses
LOWER COIL

550 DS
430 DS
300 DS
200 DS

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

# 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 | ⎫ | Boiler |
| RC | - Return | ⎭ | |
| M | - Flow | ⎫ | Solar |
| R | - Return | ⎭ | |

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 | $m^2$ |
| Upper coil exchange surface | 1.6 | | $m^2$ |
| 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)
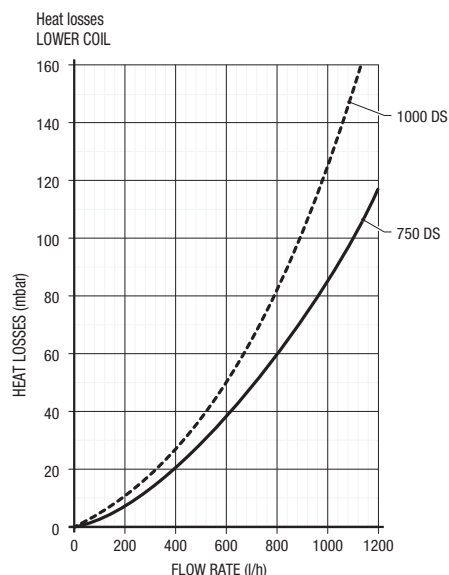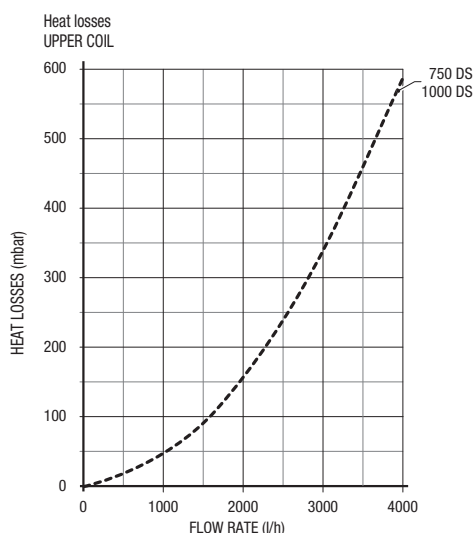
# IDRA PLUS DS - FLANGED WITH HIGH STORAGE CAPACITY

- 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.

| CODE | MODEL | DIMENSIONS with insulation H x Ø (mm) | CYLINDER CAPACITY (litres) | HEAT LOSS (W) |
|---|---|---|---|---|
| 20136280 | IDRA PLUS DS 1000 | 2205 x 990 | 955 three flanges | 142 |
| 20136282 | IDRA PLUS DS 1500 | 2185 x 1200 | 1430 three flanges | 162 |
| 20136285 | IDRA PLUS DS 2000 | 2470 x 1300 | 1990 three flanges | 186 |
| 20052796 | IDRA PLUS DS 3000 | 2680 x 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 |
|---|---|
| 20055205 | Tin coated copper coil kit 2.63 m$^2$ - 53kW - 1.74L - 10bar |
| 4383089 | Tin coated copper coil kit 4.54 m$^2$ - 91kW - 3.56L - 10bar |
| 4383087 | Tin coated copper coil kit 6.34 m$^2$ - 127kW - 5.10L - 10bar* |
| 4383272 | Single-phase electrical resistance 3 kW, 1" 1/2 |
| 20079908 | Single-phase electrical resistance 6.0 kW, 1" 1/2 |

| CODE | DESCRIPTION |
|---|---|
| 20020707 | Three-phase electrical resistance 3.8 kW, 1" 1/2 |
| 20055206 | Electrical anode kit 1/2"** |
| 20120499 | Solar control box EVOSOL with probes |
| 20099595 | Solar control box SUN 5 PRO 5 RS with probes |
| 20020778 | 1" thermostatic mixing valve 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
HEAT PUMPS
WALL HUNG BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

# IDRA PLUS DS - FLANGED WITH HIGH STORAGE CAPACITY

**Beretta**

UAC

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

AD 1
AE - S
Tr
RE
S
AD 2
AE - S
S
EAF
SB
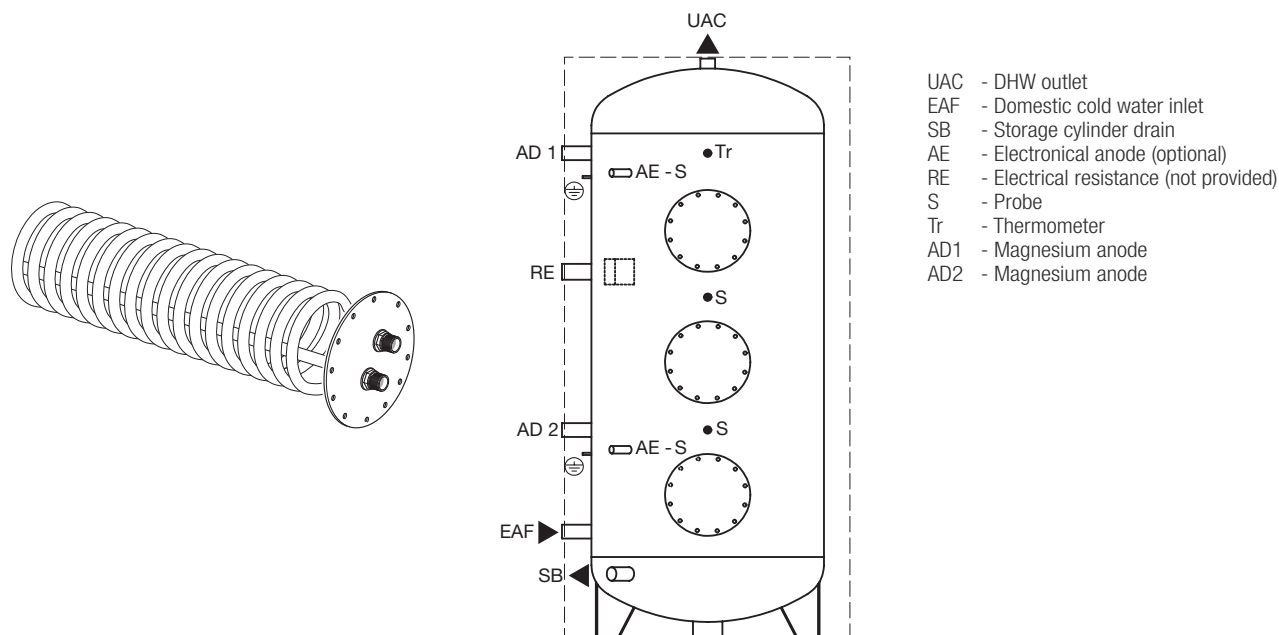
## Technical specifications

| | 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



head losses (mbar)

2,63 m²
4,54 m²
6,34 m²

flow rate (m³/h)

# IDRA N DS - WITH HIGH STORAGE CAPACITY

**Beretta**
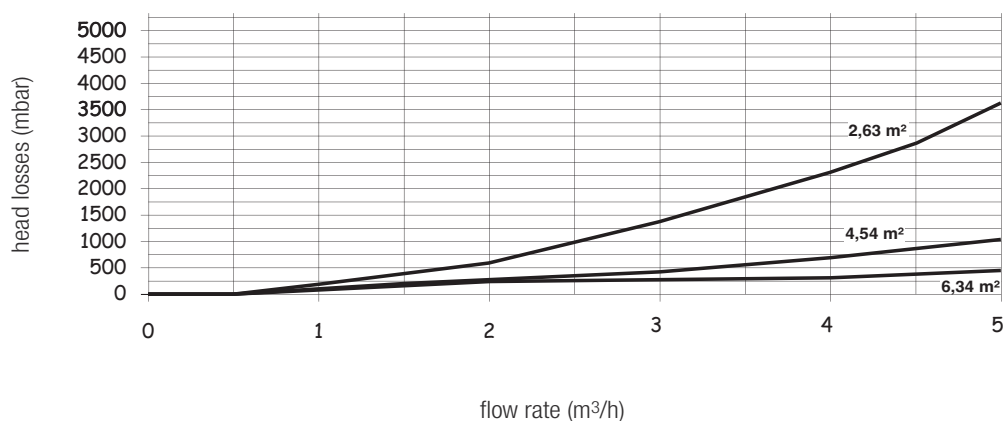
- Vertical steel enamelled solar cylinder.
- Maximum working temperature 99 °C.
- Double coil heat-exchanger.
- High heat exchange capacity of the coils.
- Suitable for electrical resistance.
- Double magnesium anode included with the standard equipment.

## Double coil cylinder with high storage capacity

| CODE | MODEL | DIMENSIONS with insulation H x Ø (mm) | CYLINDER CAPACITY (litres) | HEAT LOSS (W) |
|---|---|---|---|---|
| 20136241 | IDRA N DS 1500 | 2185 x 1200 | 1390 double coil | 162 |
| 20136242 | IDRA N DS 2000 | 2470 x 1300 | 1950 double coil | 186 |
| 20086803 | IDRA N DS 2600 | 2455 x 1450 | 2572 double coil | - |

For EXPANSION VESSELS see the dedicated section "ACCESSORIES FOR SOLAR THERMAL".

## Accessories

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|---|---|---|---|
| 20120499 | Solar control box EVOSOL with probes | 20079908 | Single-phase electrical resistance 6 kW, 1" 1/2 |
| 20099595 | Solar control box SUN 5 PRO 5 RS with probes | 20020707 | Three-phase electrical resistance 3.8 kW, 1" 1/2 |
| 20020778 | 1" thermostatic mixing valve with 3/4" adapter | 20055206 | Electrical anode kit 1/2" (*) |
| 4383272 | Single-phase electrical resistance 3 kW, 1" 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

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# IDRA N DS - WITH HIGH STORAGE CAPACITY

**Beretta**



MC   - Flow ⎤
RC   - Return ⎦ Boiler

M    - Flow ⎤
R    - Return ⎦ Solar

UAC  - DHW outlet
RL   - DHW recirculation
EAF  - Domestic cold water inlet
SB   - Cylinder drain
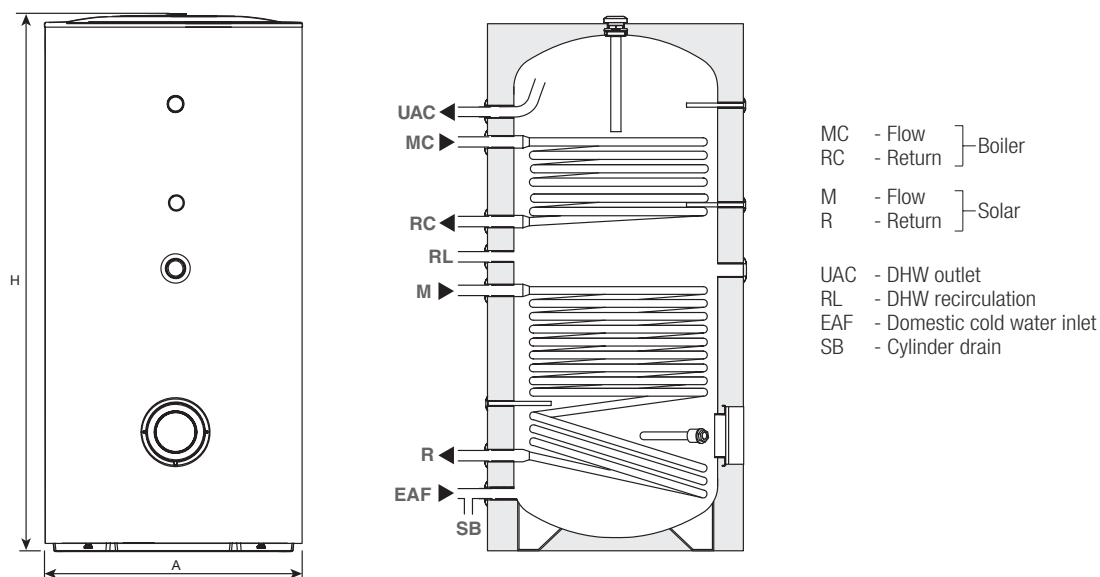
## Technical specifications

| 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**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
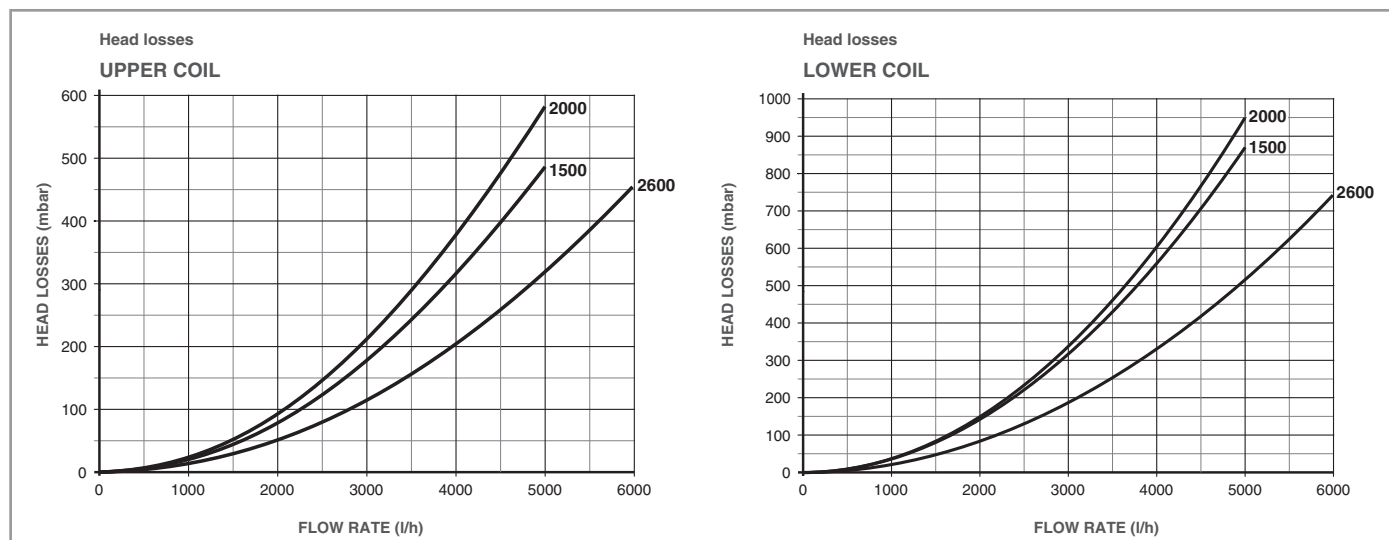
Single coil DHW cylinders
# IDRA BV

**Beretta**

- 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

ErP

| CODE | MODEL | DIMENSIONS with insulation H x Ø (mm) | CYLINDER CAPACITY (litres) | HEAT LOSS (W)* | Energy efficiency 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 |
| 20020778 | 1" thermostatic mixing valve with 3/4" adapter | 4383054 | DHW expansion vessel 35 litres |

# IDRA BV
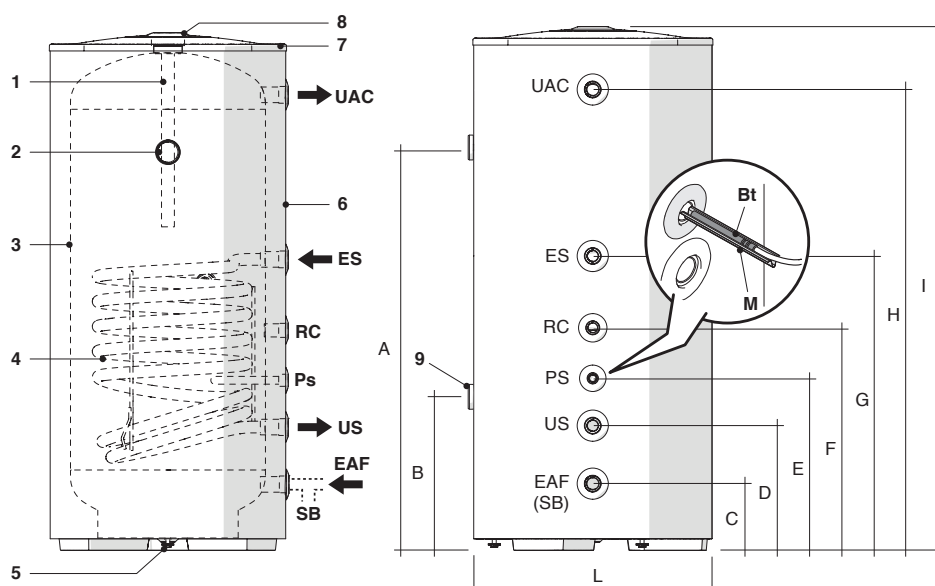
| STRUCTURE | |
|---|---|
| | **DESCRIPTION** |
| 1 | Magnesium anode |
| 2 | Thermometer |
| 3 | Heater |
| 4 | Coil |
| 5 | Adjustable foot |
| 6 | Insulation |
| 7 | Cover |
| 8 | Cap for anode inspection and handling |
| 9 | Cap for second anode inspection |
| Lt | Heater or PROBE heater THERMOSTAT 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

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Single coil DHW cylinders
# IDRA C-HP MS

**Beretta**

- Cylinder suitable for pairing with boilers and heat pumps.
- Vertical single coil glazed cylinder.
- Energy class B
- It's possible to fix a removable coil (optional) for the combination with a solar system.
- It's possible to fix a electrical resistance (optional) as back up.
- Magnesium anode included as standard.
- Maximum working temperature 99 °C.
- Coils maximum working pressure: 10 bar. (only 150 - 500)
- Coils maximum working pressure: 7 bar. (only 800 - 1000)
- Insulation through separated packaging (only 800 - 1000)

## DHW tanks ideal for heat pumps

ErP

| CODE | MODEL | DIMENSIONS with insulation H x Ø (mm) | CYLINDER CAPACITY (litres) | HEAT LOSS (W)* | Energy efficiency class |
|------|-------|---------------------------------------|----------------------------|----------------|-------------------------|
| 20204198 | IDRA C-HP 150 MS | 1138 x 604 | 170 single coil | 55 | B |
| 20204200 | IDRA C-HP 200 MS | 1354 x 604 | 210 single coil | 58 | B |
| 20204202 | IDRA C-HP 300 MS | 1838 x 604 | 305 single coil | 68 | B |
| 20204204 | IDRA C-HP 500 MS | 1793 x 755 | 500 single coil | 84 | B |
| 20204206 | IDRA C-HP 800 MS | 1835 x 974 | 735 single coil | 94 | - |
| 20204208 | IDRA C-HP 1000 MS | 2155 x 974 | 890 single coil | 101 | - |

(*) According to EN 12897:2006, Dt = 45 °C (outdoor temperature 20 °C, storage temperature 65 °C).

## RECOMMENDED COMBINATIONS - HEATER AND HEAT PUMP

| HEATER | | | HEAT PUMP HYDRO UNIT M | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M 004 | M 006 | M 008 | M 010 | M 012 | M 014 | M 016 | M 012 T | M 014 T | M 016 T | M 018 T | M 022 T | M 026 T |
| CODE | MODEL | Continuous domestic water output (kW)* | 20191950 | 20191951 | 20191952 | 20191953 | 20191954 | 20191956 | 20191957 | 20191958 | 20191959 | 20191960 | 20194173 | 20194174 | 20194175 |
| 20204198 | IDRA C-HP 150 MS | 6 | • | • | | | | | | | | | | | |
| 20204200 | IDRA C-HP 200 MS | 9 | • | • | • | | | | | | | | | | |
| 20204202 | IDRA C-HP 300 MS | 12 | • | • | • | • | • | | | • | | | | | |
| 20204204 | IDRA C-HP 500 MS | 16 | | | • | • | • | • | • | • | • | • | | | |
| 20204206 | IDRA C-HP 800 MS | 19 | | | | | • | • | • | • | • | • | • | | |
| 20204208 | IDRA C-HP 1000 MS | 25 | | | | | | | • | | | • | • | • | • |

(*) Flow temperature to the coil 50 °C ΔT 5 °C with DHW 10-45°C.
For the correct sizing of the heater, please refer to the technical data in the product data sheets.

| HEATER | | | HEAT PUMP EXCLUSIVE FE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 5M | 7M | 9M | 12M | 15M | 12T | 15T | 18T | 25T |
| CODE | MODEL | Continuous domestic water output (kW)* | 20181815 | 20181816 | 20181817 | 20181819 | 20181822 | 20181820 | 20181823 | 20181824 | 20181825 |
| 20204198 | IDRA C-HP 150 MS | 6 | • | • | | | | | | | |
| 20204200 | IDRA C-HP 200 MS | 9 | • | • | • | | | | | | |
| 20204202 | IDRA C-HP 300 MS | 12 | • | • | • | • | | • | | | |
| 20204204 | IDRA C-HP 500 MS | 16 | | | • | • | • | • | • | • | |
| 20204206 | IDRA C-HP 800 MS | 19 | | | | • | • | • | • | • | |
| 20204208 | IDRA C-HP 1000 MS | 25 | | | | | | | | • | • |

(*) Flow temperature to the coil 50 °C ΔT 5 °C with DHW 10-45°C.
For the correct sizing of the heater, please refer to the technical data in the product data sheets.

Single coil DHW cylinders
## IDRA C-HP MS

*Beretta*

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20119911 | 1.5 kW Single-phase flanged electrical resistance kit (only 150 - 500) |
| 20119912 | 2.2 kW Single-phase flanged electrical resistance kit (only 150 - 500) |
| 20119913 | 3 kW Single-phase flanged electrical resistance kit (only 150 - 500) |
| 20119914 | 3.8 kW Three-phase flanged electrical resistance kit (only 150 - 500) |
| 20131666 | 1.5 kW single-phase flanged electrical resistance kit (only 800 - 1000) |
| 20131667 | 2.2 kW single-phase flanged electrical resistance kit (only 800 - 1000) |
| 20131669 | 3 kW single-phase flanged electrical resistance kit (only 800 - 1000) |
| 20131670 | 3.8 kW three-phase flanged electrical resistance kit (only 800 - 1000) |
| 20020778 | 1" thermostatic mixing valve with 3/4" adapter |
| 20123850 | Cylinder thermometer kit |
| 20123849 | Bend kit for the recirculation |
| 20055206 | Electrical anode kit 1/2" |
| 20123851 | Bend kit for electrical anode |
| 4383270 | 1,5 kW Single-phase electrical resistance 1'' 1/2 |
| 4383271 | 2,2 kW Single-phase electrical resistance 1'' 1/2 |
| 4383272 | 3 kW Single-phase electrical resistance 1'' 1/2 |
| 20020707 | 3.8 kW Three-phase electrical resistance 1'' 1/2 |
| 20079908 | 6 kW Single-phase electrical resistance 1'' 1/2 |
| 20203248 | Solar heat exchanger 0,8m$^2$ for C-HP 150-300 |
| 20203246 | Solar heat exchanger 1,2m$^2$ for C-HP 500 |
| 20203245 | Solar heat exchanger 1,9m$^2$ for C-HP 800-1000 |

# IDRA C-HP MS
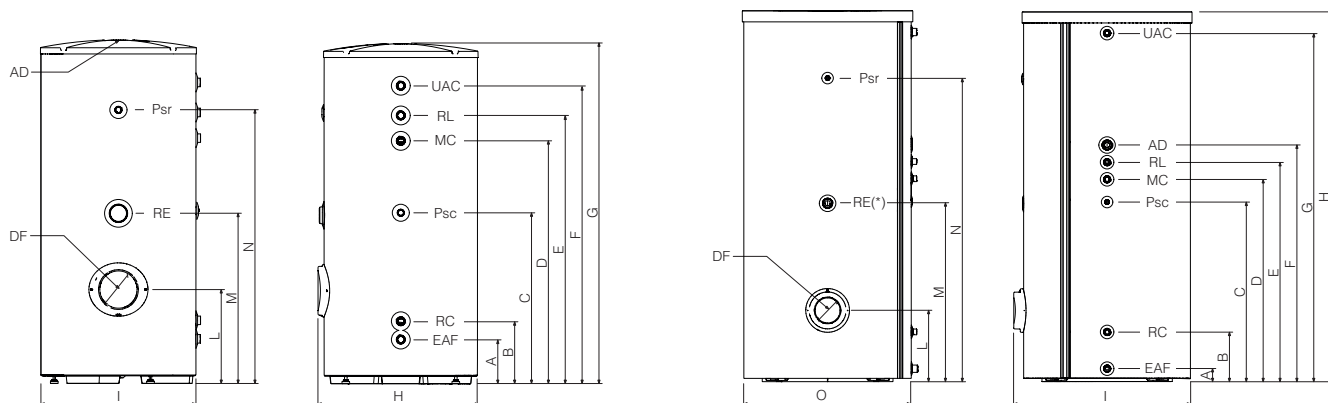


| DESCRIPTION | | 150 ms | 200 ms | 300 ms | 500 ms | 800 ms | 1000 ms |
|---|---|---|---|---|---|---|---|
| Buffer tank capacity | l | 170 | 210 | 305 | 500 | 735 | 890 |
| External diameter with insulation (I) | mm | 604 | 604 | 604 | 755 | 974 | 974 |
| Height with insulation (G) | mm | 1138 | 1354 | 1838 | 1793 | 1835 | 2155 |
| Insulation thickness | mm | 52 | 52 | 52 | 52 | 92 | 92 |
| Diameter and length of probe sockets | mm | 16/180 | 16/180 | 16/180 | 16/180 | 16/180 | 16/180 |
| Coil water content | l | 4,25 | 6,9 | 8,5 | 18,9 | 21 | 24,4 |
| Coil heat-exchange surface | m² | 0,85 | 1,38 | 1,7 | 2,2 | 2,5 | 2,9 |
| Tank maximum working pressure | bar | 10 | 10 | 10 | 10 | 7 | 7 |
| Coil maximum working pressure | bar | 10 | 10 | 10 | 10 | 7 | 7 |
| Net weight | kg | 62 | 78 | 103 | 150 | 203 | 225 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

Single coil DHW cylinders
## IDRA C-HP MS

## SYSTEM EXAMPLES

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



18 Monobloc heat pump
19 DHW diverting
20 Storage tank

21 Zone pump
22 Expansion vessel
23 Deaerator

24 Shut-off valve
25 Non-return valve
26 Filter

27 Safety valve
28 DHW heater
29 DHW mixer

30 DHW recirculation pump

- 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 x 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 | 1" thermostatic mixing valve 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.
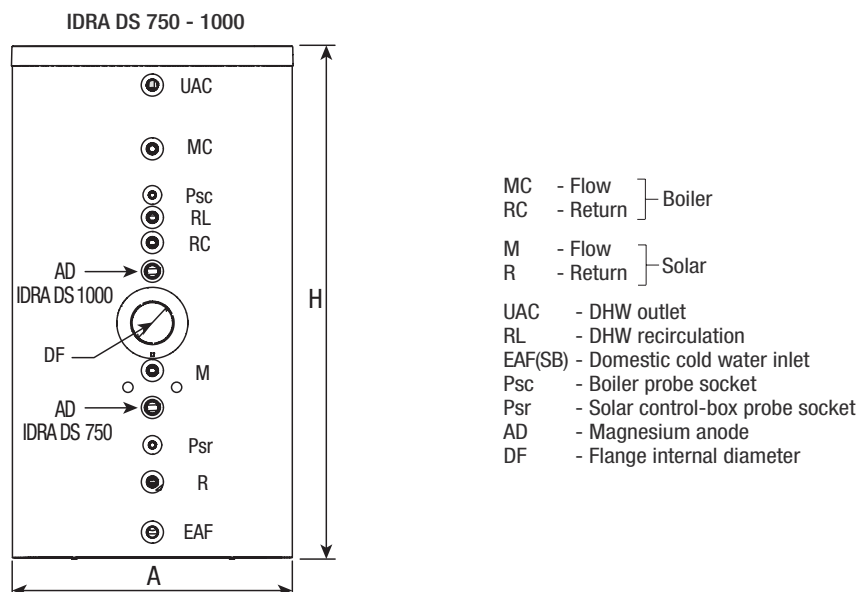
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

DHW tanks
# IDRA HP - FOR HEAT PUMPS AND SOLAR THERMAL

Beretta
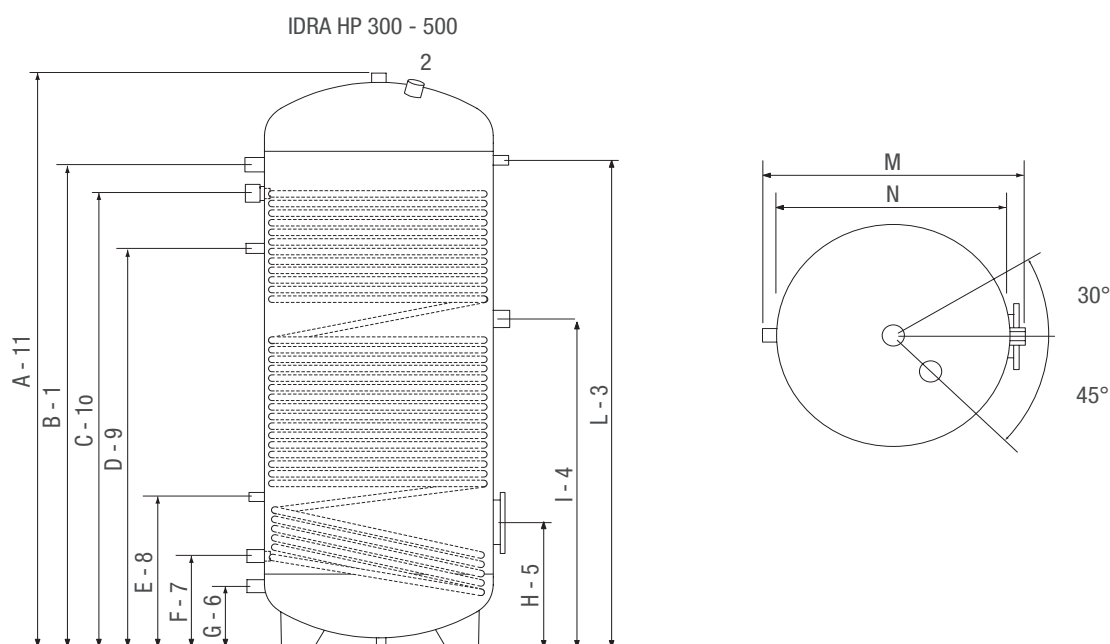
IDRA HP 300 - 500



## 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 |

# STOR M and STOR - WITH COIL OR FLANGED

- 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.

## Buffer tanks with coil or flanged

| CODE | MODEL | DIMENSIONS with insulation H x Ø (mm) | BUFFER TANK CAPACITY (litres) | HEAT LOSS (W) | ENERGY CLASS |
|---|---|---|---|---|---|
| **BUFFER TANKS WITH COIL** | | | | | |
| 20055207 | STOR 300 M | 1635 x 700 | 283 with coil | 93 | C |
| 20055208 | STOR 500 M | 1775 x 850 | 489 with coil | 110 | C |
| 20136264 | STOR 1000 M | 2190 x 990 | 920 with coil | 143 | - |
| 20136265 | STOR 1500 M | 2165 x 1200 | 1410 with coil | 167 | - |
| **FLANGED BUFFER TANKS (WITHOUT COIL)** | | | | | |
| 20136258 | STOR 2000 | 2480 x 1300 | 2010 | 190 | - |
| 20001409 | STOR 3000 | 2720 x 1450 | 2959 | 344 | - |
| 20001410 | STOR 5000 | 2870 x 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 m$^2$(*) - 53kW - 1.74L - 10bar |
| 4383089 | Tin coated copper coil kit 4.54 m$^2$(*) - 91kW - 3.56L - 10bar |
| 4383087 | Tin coated copper coil kit 6.34 m$^2$(*) - 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

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
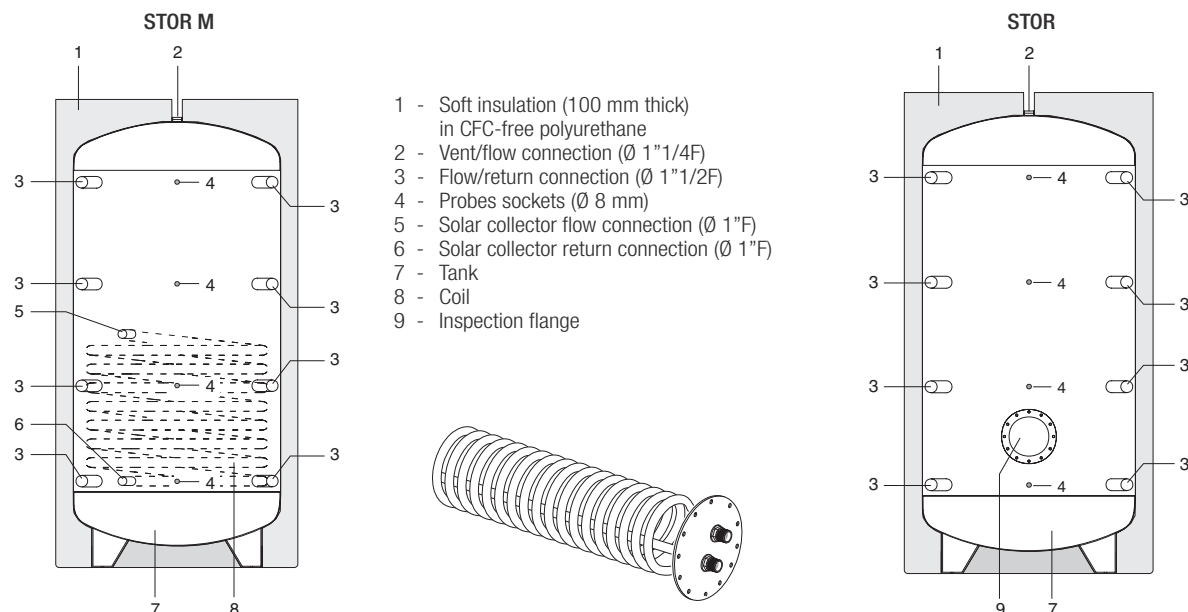
## Technical specifications

| 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 (mbar)
FLOW RATE (m³/h)
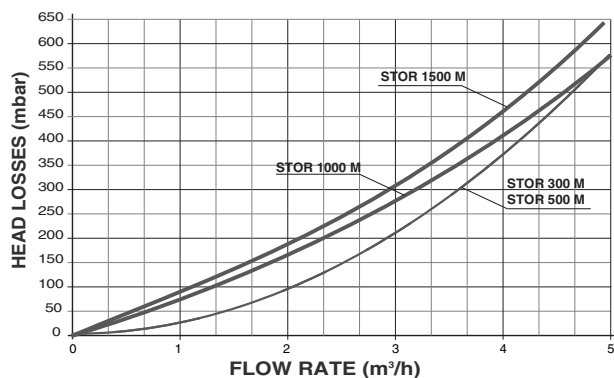
**HEAD LOSSES OF STOR EXCHANGE COIL (ACCESSORY)**

STOR 2000-3000-5000
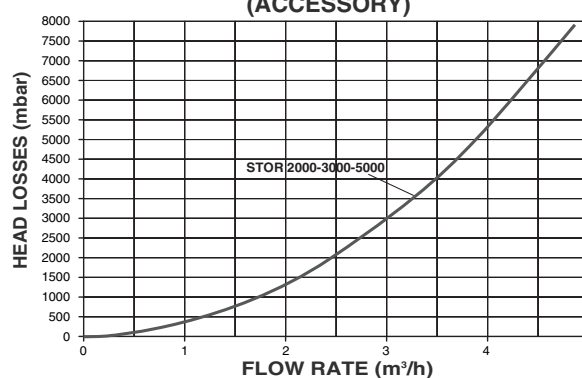
HEAD LOSSES (mbar)
FLOW RATE (m³/h)

- 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 x 550 | 203 | 68 | C |
| 20056181 | STOR H 300 | 1560 x 600 | 277 | 82 | C |
| 20056182 | STOR H 400 | 1540 x 700 | 390 | 105 | C |
| 20056183 | STOR H 500 | 1840 x 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

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
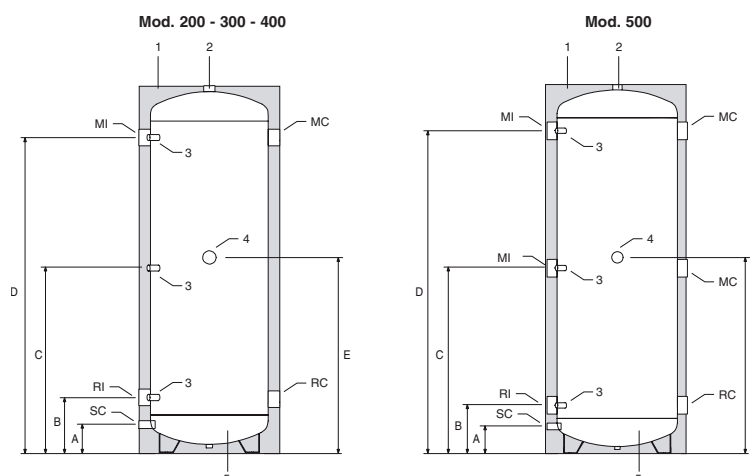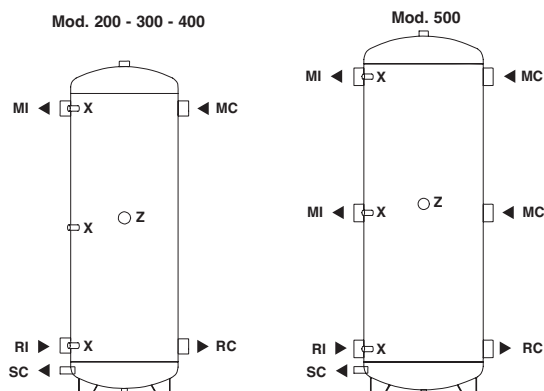
## Technical specifications

| 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 |

## 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 m² 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
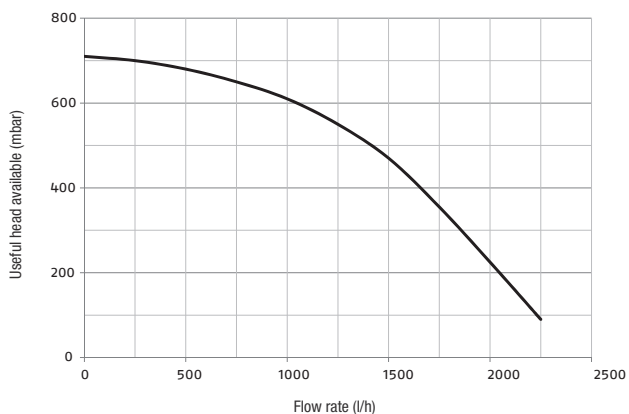


LE (head 14.5 m)
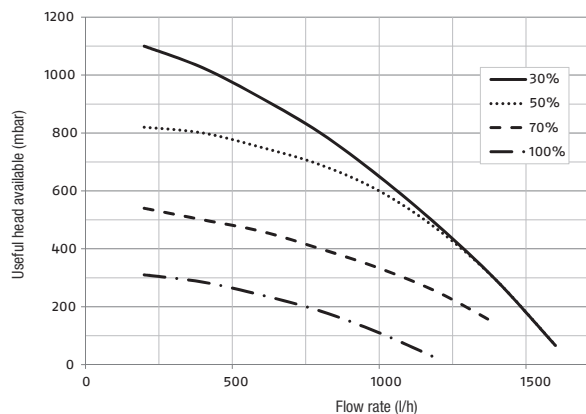
## EVOSOL

| 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

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 | 600 x 400 x 250 | 20 * |

* 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 | 840 x 480 x 220 | 80 * |

* 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 | 840 x 480 x 220 | 80 * |

* Domestic water production at 45°C, with inlet at 10°C and storage temperature at 55°C.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG 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 | 600 x 400 x 250 | 19 |
| 20156324 | SC ACS 35 | 600 x 400 x 250 | 28 |
| 20156325 | SC ACS 40 | 600 x 400 x 250 | 38 |
| 20182669 | SC ACS 80 | 835 x 475 x 226 | 60 |

* 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.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Heat exchanger units
## SC ACS

**Beretta**

- 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 | 1100 x 1000 x 469 | 100 |
| 20156329 | SC ACS 225 | 1100 x 1000 x 469 | 150 |

* 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.

## DIVERTER VALVES AND THERMOSTATIC VALVES

| CODE | DESCRIPTION |
|------|-------------|
| 20020778 | 1" mixing valve |
| 20035644 | Solar diverter mixing valve kit (for combination boilers) |

## 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 tank 18-24 liters. |
| 4383256 | 50 lt expansion vessel |
| 4383257 | 100 lt expansion vessel |

## GLYCOL AND ACCESSORIES

| CODE | DESCRIPTION |
|------|-------------|
| 20009190 | 2,5 kg glycol |
| 4383085 | 5 kg glycol |
| 4383059 | 10 kg glycol |
| 20011536 | Flow rate regulator 12 (DN20; 2-12 l/min; kvs=2,2 m3/h) |
| 20026577 | Manual bleed valve kit |

## HYDRAULIC ACCESSORIES

| CODE | DESCRIPTION |
|------|-------------|
| 20132219 | 2-fittings kit for the connection between DN18 copper pipe and hydraulic group |
| 20027289 | 2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/stainless steel pipe DN16) |
| 20132220 | 2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/stainless steel pipe DN16) |
| 4383254 | Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) |
| 4383255 | Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications) |

Notes

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# CENTRALIZED HEATING »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- New horizontal primary stainless steel heat exchanger
- Low pollutant emissions, class 6 (UNI EN 15502-1)
- Possibility to cascade up to 280 kW
- Possibility to install both front or back-to-back cascade system
- Designed to operate with natural gas and hydrogen mixtures, up to a maximum of 20%
- Low consumption modulating circulator with high hydraulic head
- Protection degree: IP X5D
- Maximum operating pressure: 5 bar
- Wide range of accessories available

## Premixed condensing boiler

ErP

| CODE | LANGUAGE | MODEL | DIMENSIONS H x W x D (mm) | HEAT INPUT Min - Max (kW) | CLASS |
|---|---|---|---|---|---|
| **ONLY HEATING** | | | | | |
| 20190069 | IT - EN | POWER EVO-X 50 DEP | 740 x 470 x 350 | 5,20-34,9 | A |
| 20202734 | FR | | | | |
| 20202735 | ES - PT | | | | |
| 20202736 | PL - HU - RO - RU | | | | |
| 20202737 | SK - SR - GR - SI - HR | | | | |
| 20190070 | IT - EN | POWER EVO-X 50 | 740 x 470 x 350 | 5,20-45 | A |
| 20202738 | FR | | | | |
| 20202739 | ES - PT | | | | |
| 20202740 | PL - HU - RO - RU | | | | |
| 20202741 | SK - SR - GR - SI - HR | | | | |

# Modular condensing wall-hung boilers for indoor application
## POWER EVO-X

**Beretta**

| CODE | LANGUAGE | MODEL | DIMENSIONS H x W x D (mm) | HEAT INPUT Min - Max (kW) | CLASS |
|---|---|---|---|---|---|
| 20190072 | IT - EN | POWER EVO-X 65 | 740 x 470 x 453 | 8,20-55 | A |
| 20202742 | FR | | | | |
| 20202743 | ES - PT | | | | |
| 20202744 | PL - HU - RO - RU | | | | |
| 20202745 | SK - SR - GR - SI - HR | | | | |
| 20190073 | IT - EN | POWER EVO-X 80 | 740 x 470 x 453 | 8,20-70 | A |
| 20202746 | FR | | | | |
| 20202747 | ES - PT | | | | |
| 20202748 | PL - HU - RO - RU | | | | |
| 20202749 | SK - SR - GR - SI - HR | | | | |

## Accessories - stand alone installation

| CODE | DESCRIPTION |
|---|---|
| **HYDRAULIC ACCESSORIES** | |
| 20195886 | Hydraulic separator/plate heat exchanger  connection [1] |
| 20195884 | Horizontal hydraulic separator |
| 20195888 | Brazed plate heat exchanger kit for stand alone boiler (20 plates) [2] |
| 20197360 | Brazed plate heat exchanger kit for stand alone boiler (30 plates) [2] |
| 20195889 | Internal 3 way valve kit [3] |
| 20195890 | External 3 way valve kit [4] |
| 20195891 | Delivery/return connection for direct installation |
| **SAFETY ACCESSORIES** | |
| 20195883 | Safety kit manifold [5] |
| 20199254 | Safety valve 4,5 bar FF 3/4"x1" [6] |
| **MECHANICAL ACCESSORIES** | |
| 20195885 | Cover for safety kit/hydraulic separator |
| 20195887 | Cover for plate heat exchanger |
| 20200070 | Spacer kit for fixing to wall [7] |
| **ELECTRICAL ACCESSORIES** | |
| 20193922 | Comando remoto REC10MH [8] |

(1) Suitable for the combination with safety valve cod.20199254.
(2) To be installed mandatory with cod.20196701.
(3) Suitable for 35-45 kW models.
(4) Suitable with the plate heat exchanger kit for stand alone boiler for the DHW production.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

(5) Contains: thermometer, pressure gauge, safety valve, pressure switch and fuel shut-off valve.
(6) For Italian market: suitable only for 35 kW model.
(7) Kit required for rear wall concentric discharge for 55-70 kW models.
(8) Allows the management of: solar thermal and up to 3 direct/mixed independent zones.

## Accessories - cascade installation

| CODE | DESCRIPTION |
|---|---|
| **HYDRAULIC ACCESSORIES** | |
| 20197002 | Ramps with shut-off |
| 20197004 | Ramps with shut-off - B2B [1][2] |
| 20197005 | Ramps without shut-off [1][2] |
| 20197006 | Ramps without shut-off - B2B [1][2] |
| 20197634 | Gas ramp kit for cascade installation 35-45 kW [1] |
| 20197635 | Gas ramp kit for cascade installation 55-70 kW [1] |
| 20197639 | Gas ramp kit for cascade installation 35-45 kW - B2B [1] |
| 20197640 | Gas ramp kit for cascade installation 55-70 kW - B2B [1] |
| 20197007 | 2" 1/2 manifolds for 2 boiler cascade |
| 20197362 | 2" 1/2 manifolds for 1 boiler cascade |
| 20197366 | Flange 2" 1/2 PN6 |
| 20197367 | Blind flanges 2''1/2 PN6 |
| 20197364 | Condensate discharge kit for cascade |
| 20196449 | Manifold kit for 2" 1/2 safety devices housing |
| 20197642 | 2"1/2 hydraulic separator kit |
| 20196494 | DN65/DN50 connection kit (HEATGATE DN50) [3] |
| 20200611 | Heat exchanger SP 35-DN50 21 (21) N [11] |
| 20200613 | Heat exchanger SP 35-DN50 27 (27) N [11] |
| 20200614 | Heat exchanger SP 35-DN50 33 (33) N [11] |
| 20200615 | Heat exchanger SP 35-DN50 41 (41) N [11] |
| 20200616 | Heat exchanger SP 35-DN50 49 (49) N [11] |
| 20200618 | Heat exchanger SP 35-DN50 53 (53) N [11] |
| 20200619 | Heat exchanger SP 35-DN50 61 (61) N [11] |
| **SAFETY ACCESSORIES** | |
| 20071190 | Safety devices kit [4] |
| 20197368 | Safety valve up to 400 kW (4,5 bar) |
| 20009486 | Fuel shut-off valve kit (VIC) - ØG.1" [7][8] |
| 20009482 | Fuel shut-off valve kit (VIC) - ØG.1" ½ [5][8] |

| CODE | DESCRIPTION |
|------|-------------|
| 20009483 | Fuel shut-off valve kit (VIC) - ØG.2" [6][8] |

**MECHANICAL ACCESSORIES**

| | |
|------|-------------|
| 20197363 | Manifolds and ramps cover for stand alone boiler |
| 20120282 | Ground fixing kit (SP 35-40 models) [9] |

**FLUE DISCHARGE (*)**

| | |
|------|-------------|
| 20129769 | Vertical flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) |
| 20196315 | Ø80/80 - Rainproof vertical adapter |
| 20190475 | Compact adjustable splitter kit from Ø60/100 mm to Ø80/80 mm |
| 20196312 | Adapter from Ø 80/125 mm to Ø80/80 mm |
| 20129765 | Fixed split system kit Ø80 mm |
| 20197070 | Adapter Ø80 to Ø110 |
| 20196319 | Ø80/110 - Rainproof vertical adapter |
| 20137506 | 90° Ø80 mm bend |
| 20137538 | Air-intake kit B23 |
| 20062338 | Cascade terminal Ø160 with condensate drain |
| 20197583 | Collector Ø160 for 1 boiler |
| 20197584 | Collector Ø200 for 1 boiler |
| 20132391 | Adapter Ø160 to Ø200 |
| 20197582 | Y-fitting Ø160/160 |

**ELECTRICAL ACCESSORIES**

| | |
|------|-------------|
| 20200265 | Cascade and zone remote control [10] |

(1) To be ordered for each boiler of the cascade system (qty = no. boiler).
(2) Without gas ramp.
(3) To be ordered with the "Ground fixing kit (SP35-40 models) cod. 20120282.
(4) Safety and fuel-shut-off valve are not included.
(5) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(6) Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(7) Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
(8) Intervention temperature 97 °C - Capillary length 5 m.
(9) Allows the plate exchanger to be fixed to the structure contained in the cod.20196494.
(10) Allows the management of: solar thermal and up to 6 direct/mixed independent zones.
(11) Configurations with plate heat exchangers: see the product SP - Inspectable plate heat exchanger, section SYSTEM
    COMPLEMENTARY ITEMS.

(*) Specific codes for the flue discharge/air intake in case of cascade installation.


NOTE: to calculate the maximum admissible output of the fuel shut-off valves, with supply pressures other than 20 mbar, contact the pre-sales service.
For the flue gas system, refer to the current catalog.

## Accessories to complete the system

| CODE | DESCRIPTION |
|------|-------------|
| **HYDRAULIC ACCESSORIES** | |
| 20190221 | 1''1/2 MF shut-off cock |
| 4031810 | Condensate neutralizer N2 (up to 450 kW) |
| 4031811 | Condensate neutralizer HN2 (up to 280 kW) [1] |
| **MECHANICAL ACCESSORIES** | |
| 20196701 | Support frame [2] |
| 20196699 | Support frame rig [3] |
| **ELECTRICAL ACCESSORIES** | |
| 20192808 | Board BE09 with double multi-function relay |
| 20132795 | 1st direct/mixed area control [4] |
| 20132796 | Control of 2nd and 3rd direct/mixed zone [4] |
| 1220559 | External probe |
| 1220599 | Immersion probe [5] |
| 20168672 | Solar thermal unit interface kit |
| **LPG TRANSFORMATION ACCESSORIES** | |
| 20201490 | LPG transformation kit (35/45 kW) |
| 20201489 | LPG transformation kit (55/70 kW) |
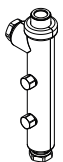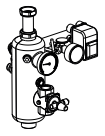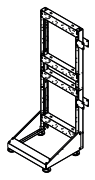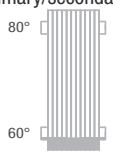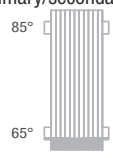
(1) Equipped with extraction pumps.
(2) Frame required in case of either cascade installation or stand alone installation with plate heat exchanger.
(3) Necessary in case of back-to-back cascade configuration.
(4) In combination with cod.20193921 in stand alone installation or with cod.20199623 in cascade installation for the management of direct/mixed zones.
(5) Usable as: primary probe, secondary probe, cylinder probe.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Modular condensing wall-hung boilers for indoor application

# POWER EVO-X

**Beretta**

## COMBINATION OF PLATE EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY ΔT = 20 ° C

| Description | Safety devices — Only safety valve | Safety devices — Only safety valve | Safety devices | Frame | Frame | Heat exchanger ΔT primary/secondary = 10°C | Heat exchanger ΔT primary/secondary = 10°C | Heat exchanger ΔT primary/secondary = 7,5°C | Heat exchanger ΔT primary/secondary = 7,5°C |
|---|---|---|---|---|---|---|---|---|---|
| | Hydraulic separator/plate heat exchanger connection | Safety valve 4,5 bar FF 3/4"x1" | Safety kit manifold | Support frame | Support frame rig | Brazed plate heat exchanger kit for stand alone boiler (20 plates) | Brazed plate heat exchanger kit for stand alone boiler (30 plates) | Brazed plate heat exchanger kit for stand alone boiler (20 plates) | Brazed plate heat exchanger kit for stand alone boiler (30 plates) |
| | 20195886 | 20199254 | 20195883 | 20196701 | 20196699 | 20195888 | 20197360 | 20195888 | 20197360 |
| POWER EVO-X 50 DEP | • | • | • | • | • (*) | • | | • | |
| POWER EVO-X 50 | • | • | • | • | • (*) | • | | • | |
| POWER EVO-X 65 | • | • | • | • | • (*) | | • | | • |
| POWER EVO-X 80 | • | • | • | • | • (*) | | • | | • |

(*)   To be used in cases where the frame kit is not bound to the wall.

## TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | TOTAL CASCADE OUTPUT/DIAMETER H2O COLLECTORS | | | |
| 2 | 70/ 2"1/2 | 90/ 2"1/2 | 110/ 2"1/2 | 140/ 2"1/2 |
| 3 | 105/ 2"1/2 | 135/ 2"1/2 | 165/ 2"1/2 | 210/ 2"1/2 |
| 4 | 140/ 2"1/2 | 180/ 2"1/2 | 220/ 2"1/2 | 280/ 2"1/2 |

## TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | SELECTION OF COLLECTOR CODES FOR FRONT CONFIGURATION | | | |
| 2 | 1x 20197007 | 1x 20197007 | 1x 20197007 | 1x 20197007 |
| 3 | 1x 20197007 1x 20197362 | 1x 20197007 1x 20197362 | 1x 20197007 1x 20197362 | 1x 20197007 1x 20197362 |
| 4 | 2x 20197007 | 2x 20197007 | 2x 20197007 | 2x 20197007 |

## TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | SELECTION OF COLLECTOR CODES FOR BACK TO BACK CONFIGURATION | | | |
| 2 | 1x 20197362 | 1x 20197362 | 1x 20197362 | 1x 20197362 |
| 3 | 1x 20197007 | 1x 20197007 | 1x 20197007 | 1x 20197007 |
| 4 | 1x 20197007 | 1x 20197007 | 1x 20197007 | 1x 20197007 |

## TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | FLUE COLLECTORS DIAMETER | | | |
| 1a | Ø160 | Ø160 | Ø160 | Ø160 |
| 2a | Ø160 | Ø160 | Ø160 | Ø160 |
| 3a | Ø160 | Ø160 | Ø160 | Ø160 |
| 4a | Ø160 | Ø160 | Ø160 | Ø200 |

## TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS, IN A FRONT CONFIGURATION

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | SELECTION OF FLUE GASES COLLECTOR CODES FOR FRONT CONFIGURATIONS | | | |
| 2 | 2x 20129765<br>4x 20137506<br>2x 20137538<br>2x 20197070<br>1x 20062338<br>2x 20197583 | 2x 20129765<br>4x 20137506<br>2x 20137538<br>2x 20197070<br>1x 20062338<br>2x 20197583 | 2x 20196319<br>1x 20062338<br>2x 20197583 | 2x 20196319<br>1x 20062338<br>2x 20197583 |
| 3 | 3x 20129765<br>6x 20137506<br>3x 20137538<br>3x 20197070<br>1x 20062338<br>3x 20197583 | 3x 20129765<br>6x 20137506<br>3x 20137538<br>3x 20197070<br>1x 20062338<br>3x 20197583 | 3x 20196319<br>1x 20062338<br>3x 20197583 | 3x 20196319<br>1x 20062338<br>3x 20197583 |
| 4 | 4x 20129765<br>8x 20137506<br>4x 20137538<br>4x 20197070<br>1x 20062338<br>4x 20197583 | 4x 20129765<br>8x 20137506<br>4x 20137538<br>4x 20197070<br>1x 20062338<br>4x 20197583 | 4x 20196319<br>1x 20062338<br>4x 20197583 | 4x 20196319<br>1x 20062338<br>1x 20132391<br>3x 20197583<br>1x 20197584 |

Modular condensing wall-hung boilers for indoor application
# POWER EVO-X

**Beretta**

**TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS, IN A BACK TO BACK CONFIGURATION**

| MODEL | POWER EVO-X 50 DEP | POWER EVO-X 50 | POWER EVO-X 65 | POWER EVO-X 80 |
|---|---|---|---|---|
| Boiler heat output kW | 34,9 | 45 | 55 | 70 |
| No. boilers | SELECTION OF FLUE GASES COLLECTOR CODES FOR BACK TO BACK CONFIGURATIONS | | | |
| 2 | 2x 20129765<br>4x 20137506<br>2x 20137538<br>2x 20197070<br>2x 20062338<br>1x 20197582<br>2x 20197583 | 2x 20129765<br>4x 20137506<br>2x 20137538<br>2x 20197070<br>2x 20062338<br>1x 20197582<br>2x 20197583 | 2x 20196319<br>2x 20062338<br>1x 20197582<br>2x 20197583 | 2x 20196319<br>2x 20062338<br>1x 20197582<br>2x 20197583 |
| 3 | 3x 20129765<br>6x 20137506<br>3x 20137538<br>3x 20197070<br>2x 20062338<br>1x 20197582<br>3x 20197583 | 3x 20129765<br>6x 20137506<br>3x 20137538<br>3x 20197070<br>2x 20062338<br>1x 20197582<br>3x 20197583 | 3x 20196319<br>2x 20062338<br>1x 20197582<br>3x 20197583 | 3x 20196319<br>2x 20062338<br>1x 20197582<br>3x 20197583 |
| 4 | 4x 20129765<br>8x 20137506<br>4x 20137538<br>4x 20197070<br>2x 20062338<br>1x 20197582<br>4x 20197583 | 4x 20129765<br>8x 20137506<br>4x 20137538<br>4x 20197070<br>2x 20062338<br>1x 20197582<br>4x 20197583 | 4x 20196319<br>2x 20062338<br>1x 20197582<br>4x 20197583 | 4x 20196319<br>2x 20062338<br>1X 20197582<br>4x 20197583 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

233

■ **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

| CODE | LANGUAGE | MODEL | DIMENSIONS H x W x D (mm) | FLUE GAS (Ø mm) | OUTPUT NCV* (GCV)** min-max (kW) | CLASS |
|---|---|---|---|---|---|---|
| 20128431 | IT / EN | POWER MAX 65 | 1000 x 600 x 435 | 80 | 14.0 - 57.0 (63.0) | A |
| 20151859 | FR | | | | | |
| 20151867 | PT | | | | | |
| 20151885 | PL / RO | | | | | |
| 20151893 | SK / CZ / GR / SI / CR | | | | | |
| 20192132 | HU | | | | | |
| 20128432 | IT / EN | POWER MAX 80 P | 1000 x 600 x 435 | 80 | 14.0 - 68.0 (76.0) | A |
| 20151860 | FR | | | | | |
| 20151870 | PT | | | | | |
| 20151886 | PL / RO | | | | | |
| 20151894 | SK / CZ / GR / SI / CR | | | | | |
| 20192133 | HU | | | | | |
| 20128433 | IT / EN | POWER MAX 100 | 1000 x 600 x 435 | 110 | 19.4 - 90.0 (100.0) | - |
| 20151861 | FR | | | | | |
| 20151872 | PT | | | | | |
| 20151887 | PL / RO | | | | | |
| 20151895 | SK / CZ / GR / SI / CR | | | | | |
| 20192134 | HU | | | | | |

# POWER MAX - THE RANGE

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## B3 type pre-mixed condensing boiler

| CODE | LANGUAGE | MODEL | DIMENSIONS H x W x D (mm) | FLUE GAS (Ø mm) | OUTPUT NCV* (GCV)** min-max (kW) | CLASS |
|------|----------|-------|----------------------------|-----------------|----------------------------------|-------|
| 20128434 | IT / EN | POWER MAX 110 | 1000 x 600 x 435 | 110 | 19.4 - 97.0 (108.0) | - |
| 20151862 | FR | | | | | |
| 20151874 | PT | | | | | |
| 20151888 | PL / RO | | | | | |
| 20151896 | SK / CZ / GR / SI / CR | | | | | |
| 20192135 | HU | | | | | |
| 20128435 | IT / EN | POWER MAX 130 | 1170 x 600 x 435 | 110 | 22.4 - 112.0 (124.0) | - |
| 20151863 | FR | | | | | |
| 20151880 | PT | | | | | |
| 20151889 | PL / RO | | | | | |
| 20151897 | SK / CZ / GR / SI / CR | | | | | |
| 20192136 | HU | | | | | |
| 20128436 | IT / EN | POWER MAX 150 | 1170 x 600 x 435 | 110 | 26.2 - 131.0 (146.0) | - |
| 20151864 | FR | | | | | |
| 20151881 | PT | | | | | |
| 20151890 | PL / RO | | | | | |
| 20151898 | SK / CZ / GR / SI / CR | | | | | |
| 20192137 | HU | | | | | |

(*)  NCV = Net Calorific Value or Lower Calorific Value (LCV)   -   (**)  GCV = Gross Calorific Value or Higher Calorific Value (HCV)
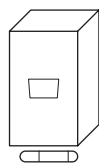
6
STAND-ALONE
configurations
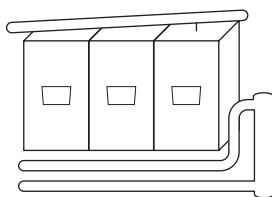
52
FRONT CASCADE
configurations
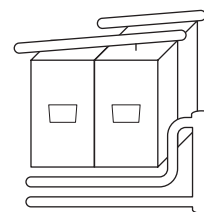
52
BACK-TO-BACK CASCADE
configurations

Power MAX range consists of **6 MODELS**, that can be installed either as stand-alone or in cascade configuration (front and back to back), totalling **110 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 / RO (Polish / Romanian)
- SK / CZ / GR / SI / CR (Slovak / Czech / Greek / Slovenian / Croatian)
- HU (Hungarian)

## 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

(*) Configurations with plate heat exchangers: see the product SP - Inspectable plate heat exchanger, section SYSTEM COMPLEMENTARY ITEMS.

## 1. Stand alone boiler configuration

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |

## 2. Accessories to complete the system

| CODE | DESCRIPTION |
|---|---|
| 20132778 | External probe |
| 20133102 | Condensate drain trap kit for stand alone boiler [1] |

[1] Mandatory on all models.

# POWER MAX - SINGLE APPLICATION - SELECTION OF COMPONENTS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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) [1] [2] |
| 20125035 | Injection pump kit POWER MAX 130 [1] [3] |
| 20125040 | High head injection pump kit POWER MAX 150 [1] [4] |

[1] For POWER MAX 65 P - 80 P models the pump is already present in the boiler
[2] 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
[3] 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
[4] 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 (INAIL) for stand alone boiler [3] |
| 20189780 | Manifold kit with safety devices for stand alone boiler [4] [5] |
| 20143981 | Safety valve 5.4 bar ØG.¾" FF |
| 20131899 | Kit with connection pipe to hydraulic separator for stand alone boiler |
| 20190221 | Shut-off cock |

[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 syphone (1x code 20133102), safety valve 5.4 bar (1x code 20143981) and 2 ball valves.
[2] Condensate drain syphone (code 20133102) is not included in the boilers.
[3] Includes all the safety devices, including safety valve and VIC mandatory for the Italian market.
[4] Includes pressure gauge, thermometer and 3 bar safety valve (¾ "FF). Coupled with the under boiler cover kits (20145587 or 20133224) it allows the display of temperature and pressure values.
[5] If an operating pressure> 3 bar is required, it can be combined with the safety valve code 20143981.

## 3.3 Hydraulic separator or plate heat exchanger

| CODE | DESCRIPTION |
|---|---|
| 20131897 | Horizontal hydraulic separator kit for stand alone boiler |
| 20133224 | Cover for safety kit/hydraulic separator unit for stand alone boiler |
| 20125037 | 2/3 way valve kit [1] |
| 20131663 | Frame kit for front cascades [2] |
| 20131664 | Frame conversion kit for B2B cascades [2] |
| 20132368 | Brazed plate heat exchanger kit for stand alone boiler (20 plates) [3] |
| 20132369 | Brazed plate heat exchanger kit for stand alone boiler (30 plates) [3] |
| 20132370 | Brazed plate heat exchanger kit for stand alone boiler (40 plates) [3] |
| 20132371 | Brazed plate heat exchanger kit for stand alone boiler (50 plates) [3] |
| 20132372 | Brazed plate heat exchanger kit for stand alone boiler (60 plates) [3] |
| 20136823 | Delivery/return line fittings kit for direct installation [4] |
| 20145587 | Cover for plate heat exchanger |

[1] 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.
[2] 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] 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
[4] Kit compatible with all POWER MAX models in case of presence of kit and without the need of hydraulic separator

### PUMP AND PLATE HEAT EXCHANGER COMBINATIONS FOR BOILER OPERATION WITH PRIMARY ΔT = 20°C

| Commercial name | Safety devices | | | INAIL | Frame | | Pumps | | | Plate heat exchangers Primary/secondary ΔT = 10°C | | | | Primary/secondary ΔT = 7.2°C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kit with connection pipe to hydraulic separator for stand alone boiler | Safety valve 5.4 bar ∅G.¾" FF | Manifold kit with safety devices for stand alone boiler | Manifold kit with INAIL safety devices for stand alone boiler | Frame kit for front cascades | Frame conversion kit for B2B cascades | Injection pump kit POWER MAX 100 - 110 - 130 (115 Hi) | Injection pump kit POWER MAX 130 | High head injection pump kit POWER MAX 150 | Brazed plate heat exchanger kit for stand alone boiler (20 plates) | Brazed plate heat exchanger kit for stand alone boiler (30 plates) | Brazed plate heat exchanger kit for stand alone boiler (40 plates) | Brazed plate heat exchanger kit for stand alone boiler (60 plates) | Brazed plate heat exchanger kit for stand alone boiler (30 plates) | Brazed plate heat exchanger kit for stand alone boiler (40 plates) | Brazed plate heat exchanger kit for stand alone boiler (50 plates) | Brazed plate heat exchanger kit for stand alone boiler (60 plates) |
| | 20131899 | 20143981 | 20189780 | 20131898 | 20131663 | 20131664 | 20125034 | 20125035 | 20125040 | 20132368 | 20132369 | 20132370 | 20132372 | 20132369 | 20132370 | 20132371 | 20132372 |
| POWER MAX 65 P | ● | ● | ● | ● | ● | ●(*) | ● | | | ● | | | | | ● | | |
| POWER MAX 80 P | ● | ● | ● | ● | ● | ●(*) | ● | | | ● | | | | | ● | | |
| POWER MAX 100 | ● | ● | ● | ● | ● | ●(*) | ● | | | | ● | | | | | ● | |
| POWER MAX 110 | ● | ● | ● | ● | ● | ●(*) | ● | | | | ● | | | | | ● | |
| POWER MAX 130 (115 Hi) | ● | ● | ● | ● | ● | ●(*) | | ● | | | | ● | | | | | ● |
| POWER MAX 150 | ● | ● | ● | ● | ● | ●(*) | | | ● | | | | ● | | | | ● |

(*) To be used when the frame kit is not held on the wall.

# POWER MAX - SINGLE APPLICATION - SELECTION OF COMPONENTS

**Beretta**

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 3.4 Secondary circuit management

| CODE | DESCRIPTION |
|------|-------------|
| 1220599 | Secondary circuit/heater probe [1] |
| 20130811 | Electronic kit for management of single direct or additional mixed zone (max 16) [2] |

Note: for adjusting the ambient temperature use thermostats and chronothermostats.

[1] Probe necessary for the boiler or to control the secondary circuit, with temperature alignment with the one set for the primary circuit.

[2] The kit includes the necessary probe for the mixed zone.

## 3.5 Sealed chamber conversion kit

| CODE | DESCRIPTION |
|------|-------------|
| 20131665 | Type C conversion kit  for POWER MAX 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 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.

## 3.7 Remote control

| CODE | DESCRIPTION |
|------|-------------|
| 20213521 | POWER MAX remote control kit [1] |

[1] 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 [1] [2] |
| 4031810 | Neutralization kit N2 up to 450 kW [1] |

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

[2] With condensate booster pump

## 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

(*) Configurations with plate heat exchangers: see the product SP - Inspectable plate heat exchanger, section SYSTEM COMPLEMENTARY ITEMS.

# POWER MAX - CASCADE APPLICATION . CONFIGURATIONS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 1. Boiler cascade configuration

Output obtainable with cascade system installation.

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | Total cascade heat input (Hi) | | | | | |
| 2 | 114 | 136 | 180 | 194 | 224 | 262 |
| 3 | 171 | 204 | 270 | 291 | 336 | 393 |
| 4 | 228 | 272 | 360 | 388 | 448 | 524 |
| 5 | 285 | 340 | 450 | 485 | 560 | 655 |
| 6 | 342 | 408 | 540 | 582 | 672 | 786 |
| 7 | 399 | 476 | 630 | 679 | 784 | 917 |
| 8 | 456 | 544 | 720 | 776 | 896 | 1048 |
| 9 | 513 | 612 | 810 | 873 | 1008 | NA |
| 10 | 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
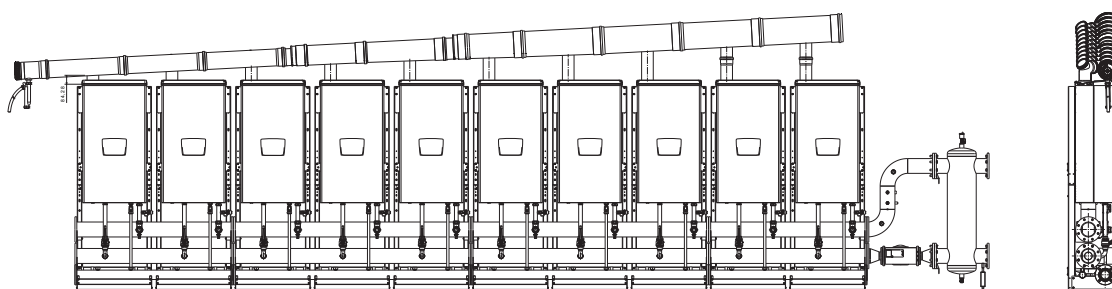


### 3.2 BACK-TO-BACK (A)
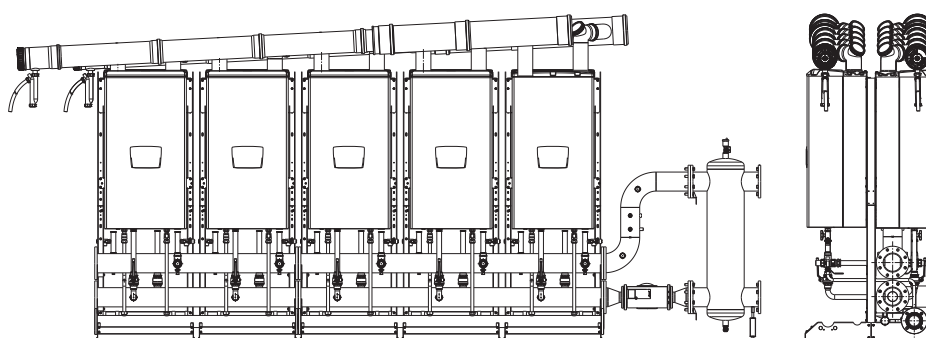


(A) To connect to a single chimney, use Y connections, choosing them from section "Cascade application - Flue"

## 3. Accessories to complete the system

| CODE | DESCRIPTION |
|---|---|
| 20132778 | External probe [1] |
| 20175716 | Primary circuit probe [1] |
| 20131267 | Condensate drain trap kit for cascade boiler [2] |
| 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) |

[1] No.1 pc. for each cascade system, to be connected to the main boiler, i.e. the one that controls the cascade system
[2] 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)

# POWER MAX - CASCADE APPLICATION . CONFIGURATIONS

## 4. Accessories

### 4.1 Support frame

| FRONT 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 4.2 Shunt pumps (only for 100÷150 kW)

| CODE | DESCRIPTION |
|------|-------------|
| 20125034 | Injection pump kit POWER MAX 100 - 110 - 130 (115 Hi) [1] |
| 20125035 | Injection pump kit POWER MAX 130 |
| 20125040 | High head injection pump kit POWER MAX 150 [2] |

[1] To be ordered for each boiler of the cascade system (qty = no. of boilers); pump to be installed inside the boiler
[2] 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 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [1] |
| 20131124 | Trains with shut-off for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [1] |
| 20131121 | Trains without shut-off for POWER MAX 150 (external pump) [2] |
| 20131125 | Trains with shut-off for POWER MAX 150 (external pump) [2] |

[1] To be ordered for each boiler of the cascade system (qty = no. of boilers) with pump installed inside the boiler
[2] To be ordered for each boiler of the cascade system (qty = no. of boilers) with pump installed outside the boiler

| BACK-TO-BACK CONFIGURATION | |
|---|---|
| CODE | DESCRIPTION |
| 20130658 | Trains without shut-off for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [3] |
| 20131124 | Trains with shut-off for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 [3] |
| 20131121 | Trains without shut-off for POWER MAX 150 (external pump) [4] |
| 20131125 | Trains with shut-off for POWER MAX 150 (external pump) [4] |
| 20131787 | Trains without shut-off for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 **BACK-TO-BACK** [5] |
| 20131791 | Trains with shut-off for POWER MAX 65 P - 80 P - 100 - 110 - 130 (115 Hi) - 150 **BACK-TO-BACK** [5] |
| 20131788 | Trains without shut-off for POWER MAX 150 (external pump) **BACK-TO-BACK** [6] |
| 20131792 | Trains with shut-off for POWER MAX 150 (external pump) **BACK-TO-BACK** [6] |

[3] To be ordered for each collector side boiler with pump installed inside the boiler
[4] To be ordered for each collector side boiler with pump installed outside the boiler
[5] To be ordered for each boiler opposite to the collectors with pump installed inside the boiler
[6] To be ordered for each boiler opposite to the collectors with pump installed outside the boiler

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 4.4 Water collectors (delivery/return) -gas-condensate

| CODE | DESCRIPTION |
|---|---|
| 20133220 | Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 1 frame [1] |
| 20130220 | Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 2 frames (up to 485 kW) [2] |
| 20130221 | Kit of 3" flanged DN80 + threaded GAS 2" hydraulic collectors - for 3 frames (up to 485 kW) [2] |
| 20130222 | Kit of 5" flanged DN125 + flanged 3" flanged DN80 3" hydraulic collectors - for 2 frames (above 485 kW) [3] |
| 20130223 | Kit of 5" flanged DN125 + flanged 3" flanged DN80 3" hydraulic collectors - for 3 frames (above 485 kW) [3] |
| 20132377 | Collector and train cover kit - for single POWER MAX in cascade |
| 20070903 | Closing 3" cap kit [4] |
| 20082190 | Through 3" flange kit |
| 20070907 | Closing 5" cap kit [4] |
| 20082191 | Through 5" flange kit |

[1] 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

[2] 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

[3] 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

[4] They allow the closure, on one side, of the gas collector and the two hydraulic collectors

### Combination table for cascade boiler heat input collectors

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | TOTAL CASCADE HEAT INPUT (kW) / DIAMETER OF HYDRAULIC COLLECTORS (inches) | | | | | |
| 2 | 114/3" | 136/3" | 180/3" | 194/3" | 224/3" | 262/3" |
| 3 | 171/3" | 204/3" | 270/3" | 291/3" | 336/3" | 393/3" |
| 4 | 228/3" | 272/3" | 360/3" | 388/3" | 448/3" | 524/5" |
| 5 | 285/3" | 340/3" | 450/3" | 485/3" | 560/5" | 655/5" |
| 6 | 342/3" | 408/3" | 540/5" | 582/5" | 672/5" | 786/5" |
| 7 | 399/3" | 476/3" | 630/5" | 679/5" | 784/5" | 917/5" |
| 8 | 456/3" | 544/5" | 720/5" | 776/5" | 896/5" | 1048/5" |
| 9 | 513/5" | 612/5" | 810/5" | 873/5" | 1008/5" | - |
| 10 | 570/5" | 680/5" | 970/5" | 970/5" | 1120/5" | - |

# POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

## Collector code selection table according to the number of boilers in cascade, FRONT configuration:

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | Hydraulic collector code selection for FRONT configurations | | | | | |
| 2 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 |
| 3 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 |
| 4 | 2 x 20130220 | 2 x 20130220 | 2 x 20130220 | 2 x 20130220 | 2 x 20130220 | 2 x 20130222 |
| 5 | 1 x 20130220 1 x 20130221 | 1 x 20130220 1 x 20130221 | 1 x 20130220 1 x 20130221 | 1 x 20130220 1 x 20130221 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 |
| 6 | 2 x 20130221 | 2 x 20130221 | 2 x 20130223 | 2 x 20130223 | 2 x 20130223 | 2 x 20130223 |
| 7 | 2 x 20130220 1 x 20130221 | 2 x 20130220 1 x 20130221 | 2 x 20130222 1 x 20130223 | 2 x 20130222 1 x 20130223 | 2 x 20130222 1 x 20130223 | 2 x 20130222 1 x 20130223 |
| 8 | 1 x 20130220 2 x 20130221 | 1 x 20130222 2 x 20130223 | 1 x 20130222 2 x 20130223 | 1 x 20130222 2 x 20130223 | 1 x 20130222 2 x 20130223 | 1 x 20130222 2 x 20130223 |
| 9 | 3 x 20130223 | 3 x 20130223 | 3 x 20130223 | 3 x 20130223 | 3 x 20130223 | - |
| 10 | 2 x 20130222 2 x 20130223 | 2 x 20130222 2 x 20130223 | 2 x 20130222 2 x 20130223 | 2 x 20130222 2 x 20130223 | 2 x 20130222 2 x 20130223 | - |

## Collector code selection table according to the number of boilers in cascade, BACK-TO-BACK configuration

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | Hydraulic collector code selection for BACK-TO-BACK configurations | | | | | |
| 2 | 1 x 20133220 | 1 x 20133220 | 1 x 20133220 | 1 x 20133220 | 1 x 20133220 | 1 x 20133220 |
| 3 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 |
| 4 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130220 | 1 x 20130222 |
| 5 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 | 1 x 20130221 | 1 x 20130223 | 1 x 20130223 |
| 6 | 1 x 20130221 | 1 x 20130221 | 1 x 20130223 | 1 x 20130223 | 1 x 20130223 | 1 x 20130223 |
| 7 | 2 x 20130220 | 2 x 20130220 | 2 x 20130222 | 2 x 20130222 | 2 x 20130222 | 2 x 20130222 |
| 8 | 2 x 20130220 | 2 x 20130222 | 2 x 20130222 | 2 x 20130222 | 2 x 20130222 | 2 x 20130222 |
| 9 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | - |
| 10 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | 1 x 20130222 1 x 20130223 | - |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

### 4.5 Additional safety devices

| CODE | DESCRIPTION |
|------|-------------|
| 20070910 | Manifold kit for 3" safety devices housing [1] |
| 20070912 | Manifold kit for 5" safety devices housing [1] |
| 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 [2] |
| 20009482 | Fuel shut-off valve - ø G.1" 1/2 - TS=97°C - Capillary L=5 m [3] |
| 20009483 | Fuel shut-off valve - ø G.2" - TS=97°C - Capillary L=5 m [4] |
| 20061640 | Fuel shut-off valve - ø G.3" - TS=97°C - Capillary L=5 m [5] |
| 20161191 | Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve [6] |

[1] Intended for use in cascade systems without primary circuit circulating pump
[2] Recommended up to maximum heat input of 131 kW, calculated considering gas supply pressure = 20 mbar
[3] Recommended up to maximum heat input of 230 kW, calculated considering gas supply pressure = 20 mbar
[4] Recommended up to maximum heat input of 580 kW, calculated considering gas supply pressure = 20 mbar
[5] Recommended up to maximum heat input of 1150 kW, calculated considering gas supply pressure = 20 mbar
[6] To be istalled in combiantion with Fuel shut-off valve - o G.3" - TS=97°C - Capillary L=5 m code 20061640

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 x 3/4" | 1 x 1" | 2 x 3/4" | 2 x 1" |
| | 1x code 20023104 | 1x code 20023106 | 2x code 20023104 | 2x code 20023106 |

## 4.6. Hydraulic separator or plate heat exchanger

| CODE | DESCRIPTION |
|---|---|
| 20009467 | Hydraulic 5" separator kit  - up to 485 kW (3" connections) [1] |
| 20069073 | Hydraulic 10" separator kit  - up to 580 kW (5" connections) [2] |
| 20069074 | Hydraulic 10" separator kit  - up to 1120 kW (5" connections) [3] |
| 20132373 | Connection kit for plate exchanger (DN80 on 3" collector side /DN50 on plate exchanger side) [4] |
| 20203733 | Connection kit for plate exchanger (DN125 on 5" collector side /DN65 on plate exchanger side) [4] |
| 20132376 | Connection kit for plate exchanger (DN125 on 5" collector side /DN100 on plate exchanger side) [5] |
| 20120282 | Ground fixing kit (SP 35-40 models) |
| 20120284 | Ground fixing kit (SP 60 models) |

[1] To be used with maximum output up to 485 kW in combination with 3" collectors
[2] To be used with maximum output above 485 and up to 580 kW in combination with 5" collectors
[3] To be used with maximum output above 580 kW and up to 1120 kW in combination with 5" collectors
[4] To be mandatory ordered with "Ground fixing kit SP 35-40" code 20120282
[5] To be mandatory ordered with "Ground fixing kit SP 60" code 20120284

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 4.7 Secondary circuit management

| CODE | DESCRIPTION |
|------|-------------|
| 1220599 | Secondary circuit/heater probe [1] |
| 20130811 | Electronic kit for management of single direct or additional mixed zone (max 16) [2] |

[1] 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
[2] 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.

Note: for adjusting the ambient temperature use thermostats and chronothermostats.

## 4.8 Sealed chamber conversion kit (type C)

| CODE | DESCRIPTION |
|------|-------------|
| 20131665 | Type C conversion kit  for POWER MAX 65 P - 80 P |
| 20131668 | Type C conversion kit for POWER MAX 100 - 110 - 130 (115 Hi) - 150 |

## 4.9 Flue gas exhaust systems
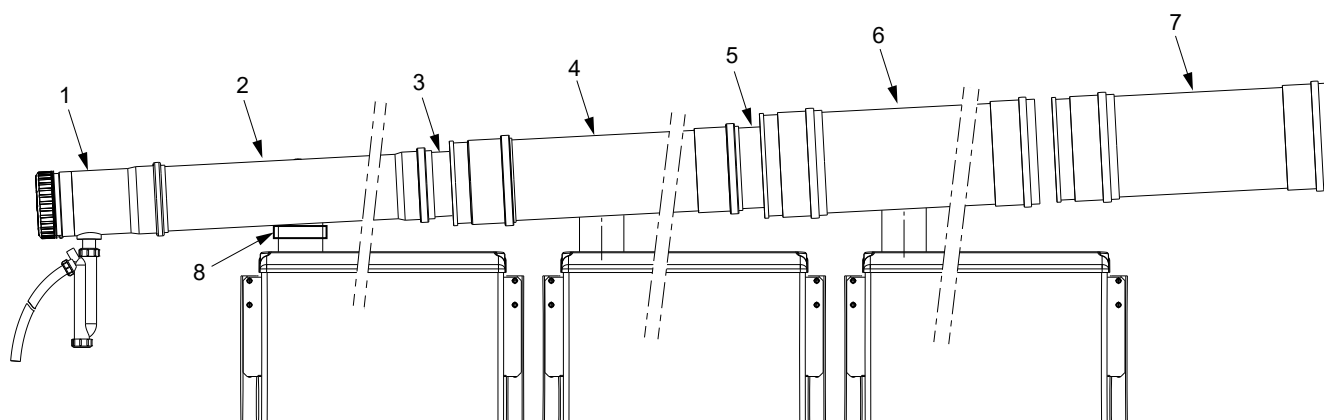


1   Code 20062338 Cascade terminal ø160 with condensate drainage
2   Code 20131266 Manifold ø160 for 1 boiler
3   Code 20132391 Eccentric adapter ø160/200
4   Code 20131901 Manifold ø200 for 1 boiler
5   Code 20132393 Eccentric adapter ø200/250
6   Code 20131903 Manifold ø250 for 1 boiler

7   For BACK-TO-BACK layout only
    Code 20132381 - Y fitting ø160/160
    Code 20132384 - Y fitting ø160/200
    Code 20132385 - Y fitting ø160/250
    Code 20132386 - Y fitting ø200/250
8   Code 20131238 Adapter ø80/110 (for models 65-80 only)

**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**
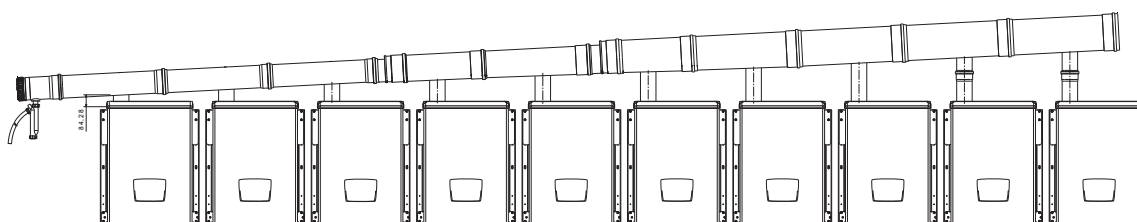
**BACK-TO-BACK configuration - Max 5 + 5 boilers**
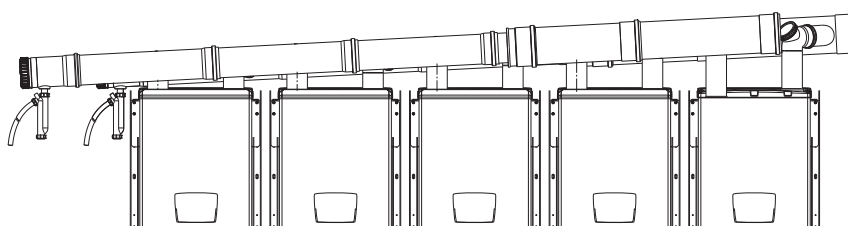
Note: the BACK-TO-BACK configuration has separate lines for each row of boilers, collector side and opposite side.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

**Combination table for flue gas collector diameters according to the no. of boilers on a single collector**

| Model | 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 | 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 |
| 2 | 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 |
| 4 | Ø 160 | Ø 160 | Ø 160 | Ø 160 | Ø 160 | Ø 200 |
| 5 | Ø 160 | Ø 160 | Ø 200 | Ø 200 | Ø 200 | Ø 200 |
| 6 | Ø 160 | Ø 160 | Ø 200 | Ø 200 | Ø 200 | Ø 250 |
| 7 | Ø 160 | Ø 200 | Ø 200 | Ø 200 | Ø 250 | Ø 250 |
| 8 | Ø 200 | Ø 200 | Ø 250 | Ø 250 | Ø 250 | Ø 250 |
| 9 | Ø 200 | Ø 200 | Ø 250 | Ø 250 | Ø 250 | - |
| 10 | Ø 200 | Ø 200 | Ø 250 | Ø 250 | Ø 250 | - |

# POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

**Collector code selection table according to the number of boilers in FRONT configuration**

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | FLUE GAS COLLECTOR CODE SELECTION FOR FRONT CONFIGURATIONS | | | | | |
| 2 | 2 x 20131238<br>1 x 20062338<br>2 x 20131266 | 2 x 20131238<br>1 x 20062338<br>2 x 20131266 | 1 x 20062338<br>2 x 20131266 | 1 x 20062338<br>2 x 20131266 | 1 x 20062338<br>2 x 20131266 | 1 x 20062338<br>2 x 20131266 |
| 3 | 3 x 20131238<br>1 x 20062338<br>3 x 20131266 | 3 x 20131238<br>1 x 20062338<br>3 x 20131266 | 1 x 20062338<br>3 x 20131266 | 1 x 20062338<br>3 x 20131266 | 1 x 20062338<br>3 x 20131266 | 1 x 20062338<br>3 x 20131266 |
| 4 | 4 x 20131238<br>1 x 20062338<br>4 x 20131266 | 4 x 20131238<br>1 x 20062338<br>4 x 20131266 | 1 x 20062338<br>4 x 20131266 | 1 x 20062338<br>4 x 20131266 | 1 x 20062338<br>4 x 20131266 | 1 x 20062338<br>3 x 20131266<br>1 x 20132391<br>1 x 20131901 |
| 5 | 5 x 20131238<br>1 x 20062338<br>5 x 20131266 | 5 x 20131238<br>1 x 20062338<br>5 x 20131266 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>1 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>1 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>1 x 20131901 | 1 x 20062338<br>3 x 20131266<br>1 x 20132391<br>2 x 20131901 |
| 6 | 6 x 20131238<br>1 x 20062338<br>6 x 20131266 | 6 x 20131238<br>1 x 20062338<br>6 x 20131266 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901 | 1 x 20062338<br>3 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>1 x 20131903 |
| 7 | 7 x 20131238<br>1 x 20062338<br>7 x 20131266 | 7 x 20131238<br>1 x 20062338<br>6 x 20131266<br>1 x 20132391<br>1 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>1 x 20131903 | 1 x 20062338<br>3 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>2 x 20131903 |
| 8 | 8 x 20131238<br>1 x 20062338<br>7 x 20131266<br>1 x 20132391<br>1 x 20131901 | 8 x 20131238<br>1 x 20062338<br>6 x 20131266<br>1 x 20132391<br>2 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>1 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>1 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>2 x 20131903 | 1 x 20062338<br>3 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>3 x 20131903 |
| 9 | 9 x 20131238<br>1 x 20062338<br>7 x 20131266<br>1 x 20132391<br>2 x 20131901 | 9 x 20131238<br>1 x 20062338<br>6 x 20131266<br>1 x 20132391<br>3 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>2 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>2 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>3 x 20131903 | NA |
| 10 | 10 x 20131238<br>1 x 20062338<br>7 x 20131266<br>1 x 20132391<br>3 x 20131901 | 10 x 20131238<br>1 x 20062338<br>6 x 20131266<br>1 x 20132391<br>4 x 20131901 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>3 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>3 x 20131901<br>1 x 20132393<br>3 x 20131903 | 1 x 20062338<br>4 x 20131266<br>1 x 20132391<br>2 x 20131901<br>1 x 20132393<br>4 x 20131903 | NA |

Note: in case of ducted intake and watertight combustion (type C) double the quantities indicated in the table.

# POWER MAX - CASCADE APPLICATION - SELECTION OF COMPONENTS

**Flue gas collector code selection table according to the number of boilers in BACK-TO-BACK configuration**

| Model | 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 | 57 | 68 | 90 | 97 | 112 | 131 |
| No. of boilers | FLUE GAS COLLECTOR CODE SELECTION FOR BACK-TO-BACK CONFIGURATIONS | | | | | |
| 2 | 2 x 20131238<br>2 x 20062338<br>2 x 20131266<br>1 x 20132381 | 2 x 20131238<br>2 x 20062338<br>2 x 20131266<br>1 x 20132381 | 2 x 20062338<br>2 x 20131266<br>1 x 20132381 | 2 x 20062338<br>2 x 20131266<br>1 x 20132381 | 2 x 20062338<br>2 x 20131266<br>1 x 20132381 | 2 x 20062338<br>2 x 20131266<br>1 x 20132381 |
| 3 | 3 x 20131238<br>2 x 20062338<br>3 x 20131266<br>1 x 20132381 | 3 x 20131238<br>2 x 20062338<br>3 x 20131266<br>1 x 20132381 | 2 x 20062338<br>3 x 20131266<br>1 x 20132381 | 2 x 20062338<br>3 x 20131266<br>1 x 20132381 | 2 x 20062338<br>3 x 20131266<br>1 x 20132381 | 2 x 20062338<br>3 x 20131266<br>1 x 20132381 |
| 4 | 4 x 20131238<br>2 x 20062338<br>4 x 20131266<br>1 x 20132381 | 4 x 20131238<br>2 x 20062338<br>4 x 20131266<br>1 x 20132381 | 2 x 20062338<br>4 x 20131266<br>1 x 20132381 | 2 x 20062338<br>4 x 20131266<br>1 x 20132381 | 2 x 20062338<br>4 x 20131266<br>1 x 20132381 | 2 x 20062338<br>4 x 20131266<br>1 x 20132384 |
| 5 | 5 x 20131238<br>2 x 20062338<br>5 x 20131266<br>1 x 20132381 | 5 x 20131238<br>2 x 20062338<br>5 x 20131266<br>1 x 20132381 | 2 x 20062338<br>5 x 20131266<br>1 x 20132384 | 2 x 20062338<br>5 x 20131266<br>1 x 20132384 | 2 x 20062338<br>5 x 20131266<br>1 x 20132384 | 2 x 20062338<br>5 x 20131266<br>1 x 20132384 |
| 6 | 6 x 20131238<br>2 x 20062338<br>6 x 20131266<br>1 x 20132381 | 6 x 20131238<br>2 x 20062338<br>6 x 20131266<br>1 x 20132381 | 2 x 20062338<br>6 x 20131266<br>1 x 20132384 | 2 x 20062338<br>6 x 20131266<br>1 x 20132384 | 2 x 20062338<br>6 x 20131266<br>1 x 20132384 | 2 x 20062338<br>6 x 20131266<br>1 x 20132385 |
| 7 | 7 x 20131238<br>2 x 20062338<br>7 x 20131266<br>1 x 20132381 | 7 x 20131238<br>2 x 20062338<br>7 x 20131266<br>1 x 20132384 | 2 x 20062338<br>7 x 20131266<br>1 x 20132384 | 2 x 20062338<br>7 x 20131266<br>1 x 20132384 | 2 x 20062338<br>7 x 20131266<br>1 x 20132385 | 2 x 20062338<br>5 x 20131266<br>2 x 20132391<br>2 x 20131901<br>1 x 20132386 |
| 8 | 8 x 20131238<br>2 x 20062338<br>8 x 20131266<br>1 x 20132384 | 8 x 20131238<br>2 x 20062338<br>8 x 20131266<br>1 x 20132384 | 2 x 20062338<br>8 x 20131266<br>1 x 20132385 | 2 x 20062338<br>8 x 20131266<br>1 x 20132385 | 2 x 20062338<br>8 x 20131266<br>1 x 20132385 | 2 x 20062338<br>6 x 20131266<br>2 x 20132391<br>2 x 20131901<br>1 x 20132386 |
| 9 | 9 x 20131238<br>2 x 20062338<br>9 x 20131266<br>1 x 20132384 | 9 x 20131238<br>2 x 20062338<br>9 x 20131266<br>1 x 20132384 | 2 x 20062338<br>7 x 20131266<br>2 x 20132391<br>2 x 20131901<br>1 x 20132386 | 2 x 20062338<br>7 x 20131266<br>2 x 20132391<br>2 x 20131901<br>1 x 20132386 | 2 x 20062338<br>7 x 20131266<br>2 x 20132391<br>2 x 20131901<br>1 x 20132386 | NA |
| 10 | 10 x 20131238<br>2 x 20062338<br>10 x 20131266<br>1 x 20132384 | 10 x 20131238<br>2 x 20062338<br>10 x 20131266<br>1 x 20132384 | 2 x 20062338<br>8 x 20131266<br>2 x 20131901<br>2 x 20132391<br>1 x 20132386 | 2 x 20062338<br>8 x 20131266<br>2 x 20131901<br>2 x 20132391<br>1 x 20132386 | 2 x 20062338<br>8 x 20131266<br>2 x 20131901<br>2 x 20132391<br>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 |
|------|-------------|
| 20213521 | POWER MAX remote control kit [1] |

[1] Necessary for hourly programming of the heater and for programming of zones (also those managed by the additional zone kits)
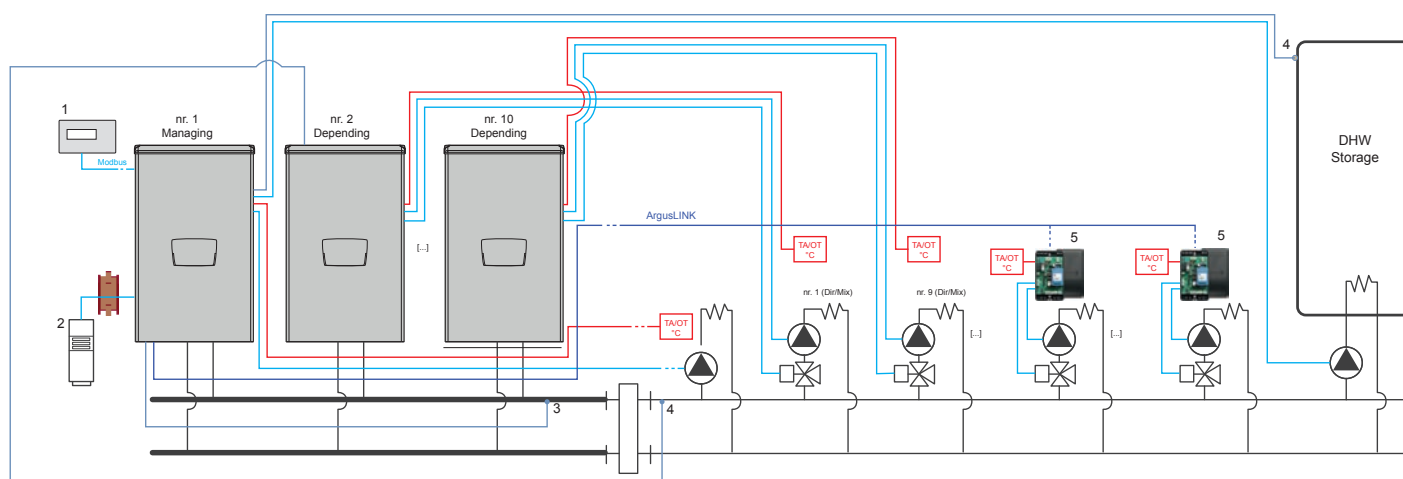


Key to layout
1. Remote control kit code 20213521
2. External probe code 20132778
3. Primary circuit probe code 20175716
4. Secondary circuit/heater probe code 1220599
5. Heating zone code 20130811

## 4.11 Treatment systems for condensate neutralization

| CODE | DESCRIPTION |
|------|-------------|
| 4031811 | Neutralization kit HN2 up to 270 kW [1] [2] |
| 4031810 | Neutralization kit N2 up to 450 kW [1] |
| 4031812 | Neutralization kit N3 from 450 to 1500 kW [1] |
| 4031813 | Neutralization kit HN3 from 270 to 750 kW [1] [2] |

[1] Delivery time of the material if not available in stock: up to 30 working days from order validation date
[2] Equipped with extraction pumps

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# POWER MAX - DIMENSIONS

## FRONT frame dimensions
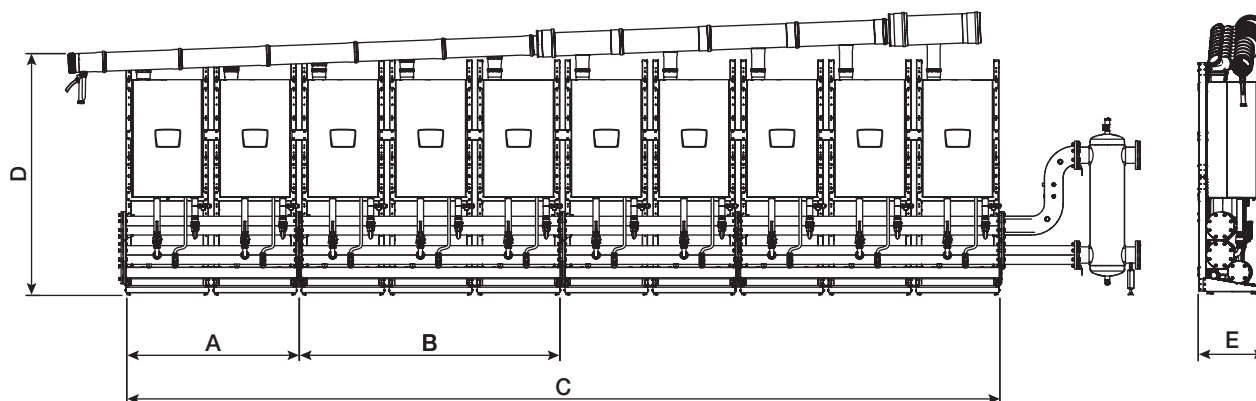


| DESCRIPTION | | Power Max System | | | | | |
|---|---|---|---|---|---|---|---|
| | | 65 P | 80 P | 100 | 110 | 130 | 150 |
| A | mm | 1452 | 1452 | 1452 | 1452 | 1452 | 1452 |
| B | mm | 2245 | 2245 | 2245 | 2245 | 2245 | 2245 |
| C (10 modules) | mm | 7438 | 7438 | 7438 | 7438 | 7438 | 5942 (max 8 modules) |
| D (10 modules) | mm | 2402 | 2402 | 2402 | 2402 | 2670 | 2514 (max 8 modules) |
| E | mm | 525 | 525 | 525 | 525 | 525 | 525 |

## Front and rear frame dimensions
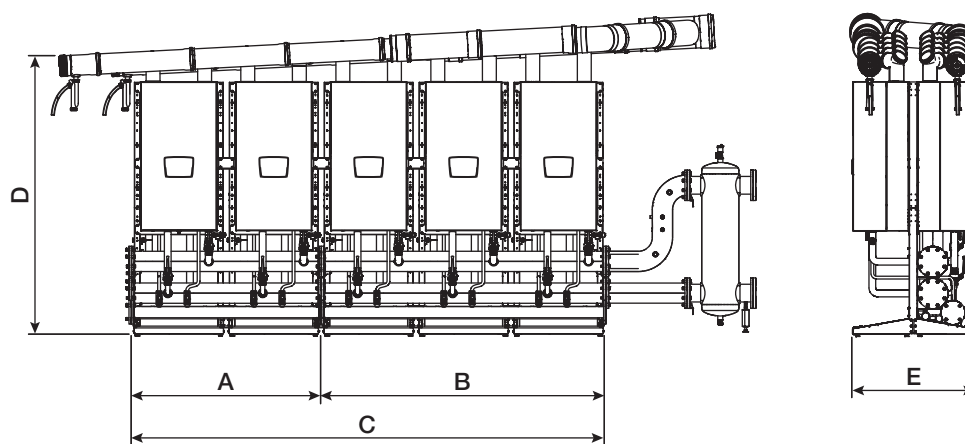


| DESCRIPTION | | Power Max System | | | | | |
|---|---|---|---|---|---|---|---|
| | | 65 P | 80 P | 100 | 110 | 130 | 150 |
| A | mm | 1452 | 1452 | 1452 | 1452 | 1452 | 1452 |
| B | mm | 2245 | 2245 | 2245 | 2245 | 2245 | 2245 |
| C (10 modules) | mm | 3697 | 3697 | 3697 | 3697 | 3697 | 3697 (max 8 modules) |
| D (10 modules) | mm | 2217 | 2217 | 2237 | 2237 | 2437 | 2437 (max 8 modules) |
| E | mm | 970 | 970 | 970 | 970 | 970 | 970 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Floor-standing gas condensing units for indoor and outdoor application

# POWER MAX BOX

**Beretta**

- 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 ∆T 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 x W x 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 P(1) | 1800 x 900 x 890 | 111.4 | 123.8 | 13.7-114 |
| 20162211 | PL / RO | | | | | |
| 20162231 | ES / SI / CR | | | | | |
| 20192701 | HU | | | | | |
| 20141086 | IT / EN | POWER MAX BOX 160-2 P(1) | 1800 x 900 x 890 | 134.0 | 147.8 | 13.7-136 |
| 20162212 | PL / RO | | | | | |
| 20162232 | ES / SI / CR | | | | | |
| 20192702 | HU | | | | | |
| 20141087 | IT / EN | POWER MAX BOX 200-2 P(1) | 1800 x 900 x 890 | 176.6 | 194.8 | 19.4-180 |
| 20162213 | PL / RO | | | | | |
| 20162233 | ES / SI / CR | | | | | |
| 20192703 | HU | | | | | |
| 20141088 | IT / EN | POWER MAX BOX 260-2 P(1) | 1800 x 900 x 890 | 219.6 | 242.2 | 22.4-223.2 |
| 20162214 | PL / RO | | | | | |
| 20162234 | ES / SI / CR | | | | | |
| 20192704 | HU | | | | | |

## Pre-mixed open chamber condensing

| CODE | LANGUAGE | MODEL | DIMENSIONS H x W x D (mm) | Delivered output 80°/60° max (kW) | Delivered output 50°/30° max (kW) | Furnace output min-max (kW) |
|---|---|---|---|---|---|---|
| 20141089 | IT / EN | POWER MAX BOX 300-2 P(1)(4) | 1800 x 900 x 890 | 258.0 | 284.2 | 26.3-262 |
| 20162215 | PL / RO | | | | | |
| 20162235 | ES / SI / CR | | | | | |
| 20192705 | HU | | | | | |
| 20141090 | IT / EN | POWER MAX BOX 330-3 P(2) | 1800 x 1800 x 890 | 285.9 | 315.3 | 19.4-291 |
| 20162216 | PL / RO | | | | | |
| 20162236 | ES / SI / CR | | | | | |
| 20192706 | HU | | | | | |
| 20141091 | IT / EN | POWER MAX BOX 390-3 P(2) | 1800 x 1800 x 890 | 329.4 | 363.6 | 22.4-334.8 |
| 20162217 | PL / RO | | | | | |
| 20162237 | ES / SI / CR | | | | | |
| 20192707 | HU | | | | | |
| 20141092 | IT / EN | POWER MAX BOX 450-3 P(2)(4) | 1800 x 1800 x 890 | 387.0 | 426.3 | 26.3-393 |
| 20162218 | PL / RO | | | | | |
| 20162238 | ES / SI / CR | | | | | |
| 20192708 | HU | | | | | |
| 20141093 | IT / EN | POWER MAX BOX 520-4 P(3) | 1800 x 1800 x 890 | 439.2 | 484.4 | 22.4-446.4 |
| 20162219 | PL / RO | | | | | |
| 20162239 | ES / SI / CR | | | | | |
| 20192709 | HU | | | | | |
| 20141095 | IT / EN | POWER MAX BOX 600-4 P(3)(4) | 1800 x 1800 x 890 | 516.0 | 568.4 | 26.3-524 |
| 20162220 | PL / RO | | | | | |
| 20162240 | ES / SI / CR | | | | | |
| 20192710 | HU | | | | | |

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 / RO (Polish / Romanian)
- ES / SI / CR (Spanish / Slovenian / Croatian)
- HU (Hungarian)

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Floor-standing gas condensing units for indoor and outdoor application
# POWER MAX BOX

Beretta

## Technical drawings

| MODEL | DIMENSIONS H x L x D (mm) | ØA (optional) (mm) | ØS (mm) | ØM | ØR | Net weight (kg) |
|---|---|---|---|---|---|---|
| POWER MAX BOX 130-2 P | 1800 x 900 x 890 | 160 | 160 | 3" | 3" | 270 |
| POWER MAX BOX 160-2 P | 1800 x 900 x 890 | 160 | 160 | 3" | 3" | 270 |
| POWER MAX BOX 200-2 P | 1800 x 900 x  890 | 160 | 160 | 3" | 3" | 280 |
| POWER MAX BOX 260-2 P | 1800 x 900 x 890 | 160 | 160 | 3" | 3" | 300 |
| POWER MAX BOX 300-2 P | 1800 x 900 x 890 | 160 (300) | 160 (300) | 5" | 5" | 350 |
| POWER MAX BOX 330-3 P | 1800 x 1700 x 890 | 160 | 160 | 3" | 3" | 450 |
| POWER MAX BOX 390-3 P | 1800 x 1700 x 890 | 160 | 160 | 3" | 3" | 490 |
| POWER MAX BOX 450-3 P | 1800 x 1700 x 890 | 160 (300) | 160 (300) | 5" | 5" | 540 |
| POWER MAX BOX 520-4 P | 1800 x 1700 x 890 | 160 | 160 | 3" | 3" | 560 |
| POWER MAX BOX 600-4 P | 1800 x 1700 x 890 | 160 (300) | 160 (300) | 5" | 5" | 600 |
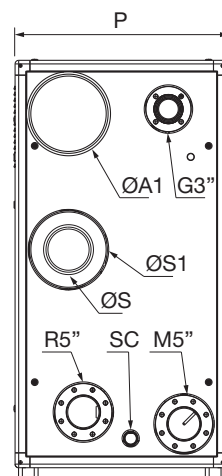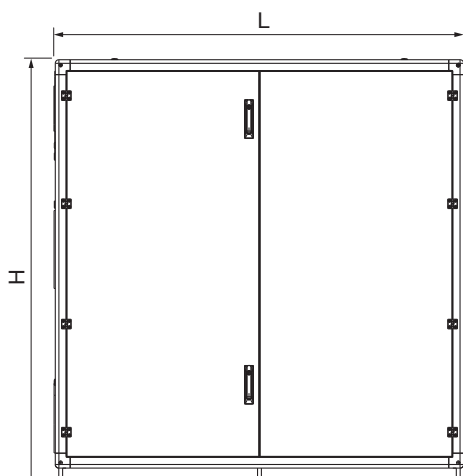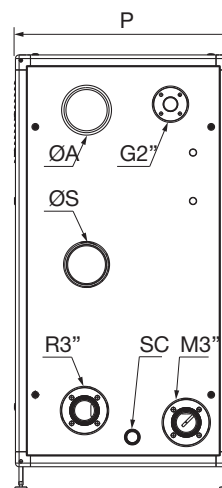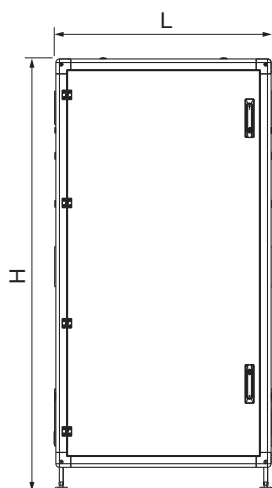


G = GAS
M= DELIVERY
R= RETURN
SC = CONDENSATE DRAIN

## 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

(*) Configurations with plate heat exchangers: see the product SP - Inspectable plate heat exchanger, section SYSTEM COMPLEMENTARY ITEMS.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Floor-standing gas condensing units for indoor and outdoor application

# POWER MAX BOX

## 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• |

261

## 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.

Floor-standing gas condensing units for indoor and outdoor application
# POWER MAX BOX

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HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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 |
| 20203748 | 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) |
| 20203212 | 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) |
| 20203211 | 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.
(*) Configurations with plate heat exchangers: see the product SP - Inspectable plate heat exchanger, section SYSTEM COMPLEMENTARY ITEMS.

## Selection table for closing caps, weld-in flanges and hydraulic reductions

| Model | Flanged 5"/3" reduction kit (DN125/DN80) 20145183 | Closing 3" cap kit 20070903 | Closing 5" cap kit 20070907 | Weld-in 3" flange kit 20082190 | Weld-in 5" flange kit 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● |

## Selection table for safety devices

| Model | Safety devices — MANDATORY ACCESSORIES safety device kit — 20071190 | Safety valves (MANDATORY ACCESSORIES) 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 | DN50PN6 2" - 2 "G.F flange kit — 20094187 | Flange kit 3" DN80 PN6 - 3" - DN80 PN16 — 20161191 | With separator/exchanger technical cabinet — Flanged 3"/2" reduction kit (DN80/DN50) — 20145184 | 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● | | |
| POWER MAX BOX 900 | 1x● | 2x● | | | | | 1x● | | | 1x● | | |
| POWER MAX BOX 1050 | 1x● | 2x● | | | | | 1x● | | | 1x● | | |
| POWER MAX BOX 1200 | 1x● | 3x● | | | | | 1x● | | | 1x● | | |
| POWER MAX BOX 1350 | 1x● | 3x● | | | | | 1x● | | | 1x● | | |
| POWER MAX BOX 1500 | 1x● | 3x● | | | | | 1x● | | | 1x● | | |

## Extension kit selection table

| Model | WITH/WITHOUT TECHNICAL CABINET — 3" straight extension kit with pockets — 20167872 | 5" straight extension kit with pockets — 20167873 | WITH TECHNICAL CABINET — RH/LH technical cabinet for housing 3" extension kit — 20158562 | RH/LH technical cabinet for housing 5" extension kit — 20158564 | Gas adapter 2" - 1" and 1/2 for fuel shut-off valve — 20147990 | Gas adapter 2" - 1" for fuel shut-off valve — 20147994 |
|---|---|---|---|---|---|---|
| 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 | | ● | | ● | | |
| POWER MAX BOX 1500 | | ● | | ● | | |

# POWER MAX BOX

## 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

| Model | Without technical cabinet — Left/right side installation | | | | | | | With technical cabinet — Installation left side | | Installation right side | |
|---|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| | 3" connections up to 485 kW 20145255 | 5" connections up to 1310 kW 20145260 | 3" delivery stub pipe kit 20145172 | 5" delivery stub pipe kit 20145177 | 3" return stub pipe kit 20145181 | 5" return stub pipe kit 20145182 | B2B cascade hydraulic connection kit 20162865 | LH technical cabinet for hydraulic separator up to 485 kW 20145252 | LH technical cabinet for hydraulic separator up to 1310 kW 20145254 | RH technical cabinet for hydraulic separator up to 485 kW 20145247 | RH technical cabinet for hydraulic separator up to 1310 kW 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 | | ● | | ● | | ● | | | ● | | ● |

## 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 | 20203748 | 20146829 | 20146833 | 20203212 | 20146836 | 20146830 | 20203211 | 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 | | | ● | | | ● | | | ● |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Floor-standing gas condensing units for indoor and outdoor application

# POWER MAX BOX

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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 |

# POWER MAX BOX

## 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 |
| 20146843 | Kit IPX5D display coverage |
| 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 | 20146843 | 20146953 | 20146954 | 20146841 | 20146842 | 20146843 | 20146953 | 20146954 |
| POWER MAX BOX 130-2 P | 2x● | | 1x● | 1x● | | 1x● | 1x● | 1x● | 1x● | |
| POWER MAX BOX 160-2 P | 2x● | | 1x● | 1x● | | 1x● | 1x● | 1x● | 1x● | |
| POWER MAX BOX 200-2 P | 2x● | | 1x● | 1x● | | 1x● | 1x● | 1x● | 1x● | |
| POWER MAX BOX 260-2 P | 2x● | | 1x● | 1x● | | 1x● | 1x● | 1x● | 1x● | |
| POWER MAX BOX 300-2 P (*) | 2x● | | 1x● | | 1x● | 1x● | 1x● | 1x● | | 1x● |
| POWER MAX BOX 330-3 P | 1x● | 1x● | 1x● | 1x● | | | 2x● | 1x● | 1x● | |
| POWER MAX BOX 390-3 P | 1x● | 1x● | 1x● | 1x● | | | 2x● | 1x● | 1x● | |
| POWER MAX BOX 450-3 P (*) | 1x● | 1x● | 1x● | | 1x● | | 2x● | 1x● | | 1x● |
| POWER MAX BOX 520-4 P | 1x● | 1x● | 1x● | 1x● | | | 2x● | 1x● | 1x● | |
| POWER MAX BOX 600-4 P | 1x● | 1x● | 2x● | | 1x● | | 2x● | 2x● | | 1x● |
| POWER MAX BOX 750 | 2x● | 1x● | 2x● | | 1x● | 1x● | 2x● | 2x● | | 1x● |
| POWER MAX BOX 900 | 2x● | 1x● | 2x● | | 1x● | 1x● | 2x● | 2x● | | 1x● |
| POWER MAX BOX 1050 | 1x● | 2x● | 2x● | | 1x● | | 3x● | 2x● | | 1x● |
| POWER MAX BOX 1200 | 1x● | 2x● | 3x● | | 1x● | | 3x● | 3x● | | 1x● |
| POWER MAX BOX 1350 | 2x● | 2x● | 3x● | | 1x● | 1x● | 3x● | 3x● | | 1x● |
| POWER MAX BOX 1500 | 2x● | 2x● | 3x● | | 1x● | 1x● | 3x● | 3x● | | 1x● |

HYBRID SYSTEMS
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WALL HUNG BOILERS
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## 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.
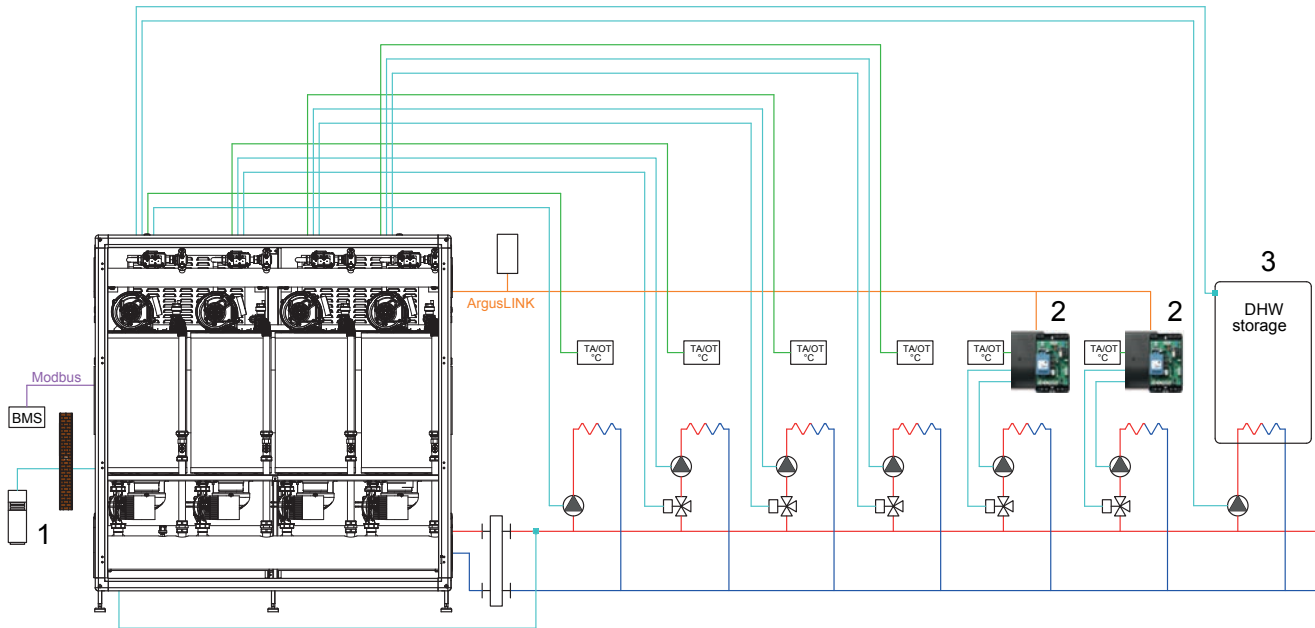


1. External probe
2. Electronic kit for management of direct or additional mixed zone
3. Heater probe
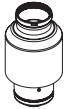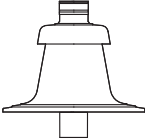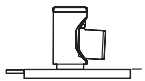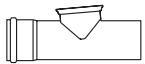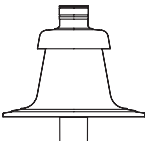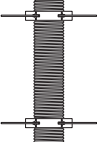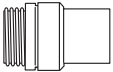
## 9. Treatment systems for condensate neutralization

| CODE | DESCRIPTION |
|------|-------------|
| 4031810 | Neutralization kit N2 up to 450 kW |
| 4031812 | Neutralization kit N3 from 450 to 1500 kW [1] |
| 4031811 | Neutralization kit HN2 up to 270 kW [2] |
| 4031813 | Neutralization kit HN3 from 270 to 750 kW [1] [2] |
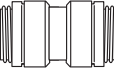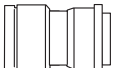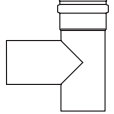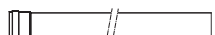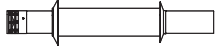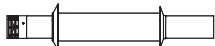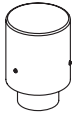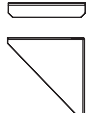
[1] Delivery time of the material if not available in stock: up to 30 working days from order validation date
[2] Equipped with extraction pumps

## SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

| CODE | | DESCRIPTION | MATERIAL (*) | POWER EVO-X 50 DEP/50 | POWER EVO-X 65/80 | POWER MAX 65 P - 80 P |
|---|---|---|---|---|---|---|
| 20134830 | | Flue adapter kit from Ø60/100 to Ø80+80 | PP (1) | ■ | | |
| 20190475 | | Compact adjustable splitter device kit from Ø60/100 to Ø80/80 | PP (1) | ■ | | |
| 20129765 | | Flue adapter kit from Ø60/100 to Ø80+80 | PP (1) | ■ | | |
| 20129769 | | Vertical flue adapter kit from Ø60/100 to Ø80 (for type B23 installation) for outdoor | PP (1) | ■ | ■ | |
| 20196312 | | Adapter from Ø 80/125 mm to Ø80/80 mm | PP (1) | | ■ | |
| 20196315 | | Ø80/80 - Rainproof vertical adapter | PP (1) | | ■ | |
| 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) | | | ■ |

| CODE | | DESCRIPTION | MATERIAL (*) | POWER EVO-X 50 DEP/50 | POWER EVO-X 65/80 | POWER MAX 65 P - 80 P |
|---|---|---|---|---|---|---|
| 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) | | | ■ |
| 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 | | | ■ |
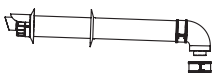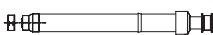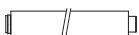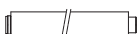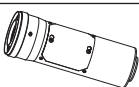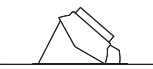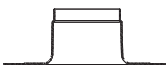
(*) PP material: colour may change over time because of sun's rays exposure.
(1) H1 pressure level according to EN 1443.
NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure 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 EVO-X 50 DEP/50 | POWER MAX 65 P - 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) | ■ | ■ |
| 20142835 |  | Ø60/100 Concentric extension with inspection | pP/PPu (1)(2) | ■ | ■ |
| 20142828 |  | Ø60/100 90°Concentric bend with inspection | pP/PPu (1)(2) | ■ | ■ |
| 20132020 |  | Ø60/100 Vertical flue terminal Ø125 external straight pipe | pP/PPu (1)(2) | ■ | ■ |
| 20132043 |  | Ø60/100 Concentric extension 500 mm | PP/PPu (1)(2) | ■ | ■ |
| 20132044 |  | Ø60/100 Concentric extension 1000 mm | PP/PPu (1)(2) | ■ | ■ |
| 20132045 |  | Ø60/100 Concentric extension 2000 mm | PP/PPu (1)(2) | ■ | ■ |
| 20132015 |  | Ø60/100 Extention with inspection door | PP/PPu (1)(2) | ■ | ■ |
| 20132012 |  | Ø60/100 45°Concentric bend | PP/PPu (1)(2) | ■ | ■ |
| 20132040 |  | Ø60/100 45°Concentric bend (2 pcs.) | PP/PPu (1)(2) | ■ | ■ |
| 20132013 |  | Ø60/100 90°Concentric bend | PP/PPu (1)(2) | ■ | ■ |
| 20132050 |  | Ø125 Pitched roof tile for vertical flue | PP/PPu (1)(2) | ■ | ■ |
| 20135579 |  | Flat roof tile for vertical flue | PP/PPu (1)(2) | ■ | ■ |
| 20135584 |  | Ø100 Spacers for pipe (4 pcs. pack) | PP/PPu (1)(2) | ■ | ■ |
| 20163032 |  | Ø100 Pipe clips kit (5 pcs) | 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.
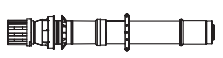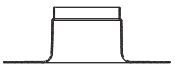NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443).
NOTE: please, refer to boiler installation manual for maximum flue line lenght.
Deductible 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.
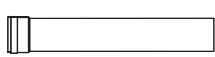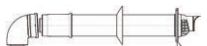
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Ø80/125 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM

| CODE | | DESCRIPTION | MATERIAL (*) | POWER EVO-X 50 DEP/50 | POWER EVO-X 65/80 | POWER MAX 65 P - 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) | ■ | ■ | ■ |
| 20135579 | | Flat roof tile for vertical flue | | ■ | ■ | ■ |

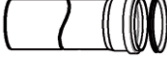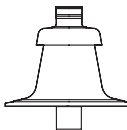(*) PP material: colour may change over time because of sun's rays exposure.
(1) H1 pressure level according to EN 1443.

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.

## 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.
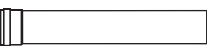(1) H1 pressure level according to EN 1443.

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.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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) | ■ |
| 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.
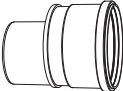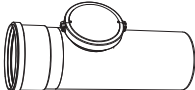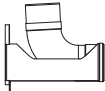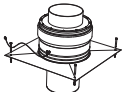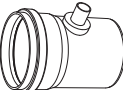
## PLASTIC FLUE GAS EXHAUST SYSTEM Ø160 mm FOR CONDENSING BOILERS

| 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
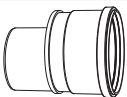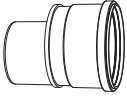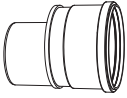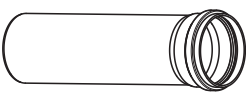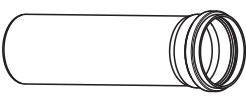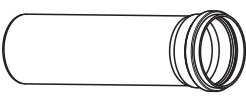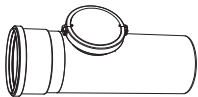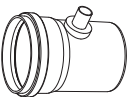
## PLASTIC FLUE GAS EXHAUST SYSTEM Ø200 mm FOR CONDENSING BOILERS

| 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 |
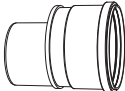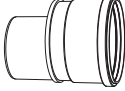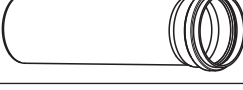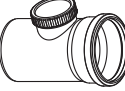
## PLASTIC FLUE GAS EXHAUST SYSTEM Ø250 mm FOR CONDENSING BOILERS

| 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS
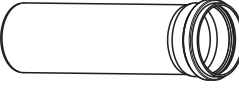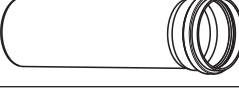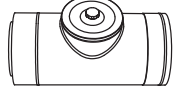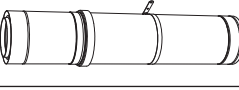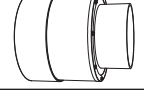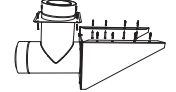
## PLASTIC FLUE GAS EXHAUST SYSTEM Ø300 mm FOR CONDENSING BOILERS

| 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 |
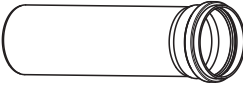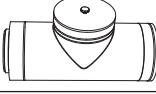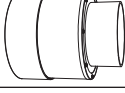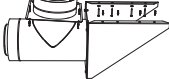
## DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

| 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 |
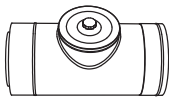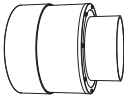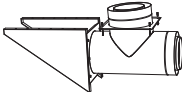
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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 |
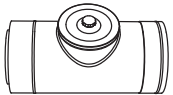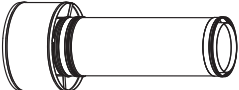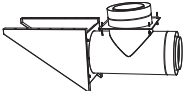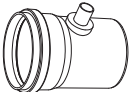
## DOUBLE-WALL PLASTIC/STAINLESS STEEL FLUE GAS EXHAUST SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

| 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 |
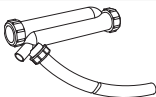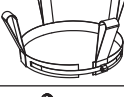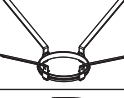
HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## 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 |

## 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 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

| 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 |

Notes

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# AIR CONDITIONING　〉〉

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS

- 5.0 kW dualsplit model for cooling and/or heating up to two domestic spaces simultaneously
- Energy efficiency class A++/A+
- R32 refrigerant gas with low environmental impact
- Outdoor unit with high-efficiency dual rotary compressor
- Indoor unit with four-speed fan to achieve high quietness levels, up to 18 dB(A) at superminimum speed
- Simple and elegant aesthetics in glossy white, with concealed display on the indoor units to show the active operating mode, temperature and any alarms
- Infra-red remote control with temperature sensor for enhanced user comfort
- Can be equipped with optional Wi-Fi kit for complete home comfort management even remotely, via dedicated app
- I-FEEL function for temperature adjustment based on that perceived by the remote control
- AUTOMATIC CLEANING and 56°C STERILISATION functions to ensure healthier air coming out of the air conditioner
- QUIET function for ultra-quiet operation at super low fan speed
- COMFORT SPLEEP function to optimise comfort during sleeping hours
- MAXIMUM POWER function to quickly reach the desired room conditions
- COMFORT SPLEEP function to optimise comfort during sleeping hours
- MAXIMUM POWER function to quickly reach the desired room
- conditions

## Air conditioners

| CODE | MODEL | DIMENSIONS (A) H x L x D (mm) | HEAT.(1)/COOL.(2) OUTPUT (kW) | CLASS SCOP | SEER |
|------|-------|------------------------------|-------------------------------|------|------|
| 20211075 | BREVA 9000-1 E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 2,80 / 2,60 | A⁺ | A⁺⁺ |
| 20206336 | BREVA EX 9000-1 E | 544 x 700(777) x 245 | - | - | - |
| 20211076 | BREVA 12000-1 E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | 3,40 / 3,20 | A⁺ | A⁺⁺ |
| 20206337 | BREVA EX 12000-1 E | 544 x 700(777) x 245 | - | - | - |
| 20211077 | BREVA 18000-1 E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206324 | BREVA IN 18000 E | 320 x 975 x 220 | 5,20 / 5,00 | A⁺ | A⁺⁺ |
| 20206338 | BREVA EX 18000-1 E | 553 x 800(860) x 275 | - | - | - |
| 20211078 | BREVA 24000-1 E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206325 | BREVA IN 24000 E | 320 x 975 x 220 | 6,80 / 6,80 | A⁺ | A⁺⁺ |
| 20206339 | BREVA EX 24000-1 E | 705 x 890(969) x 340 | - | - | - |

(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.

>> NEW

# BREVA E - WALL-HUNG MONO INVERTER AIR CONDITIONERS

## Accessories

| CODE | DESCRIPTION |
| --- | --- |
| 20194065 | 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 E | 840 | 149 | 6,35 | 9,52 | 15/10 |
| BREVA 12000-1 E | 980 | 184 | 6,35 | 9,52 | 20/10 |
| BREVA 18000-1 E | 1610 | 287 | 6,35 | 12,7 | 25/15 |
| BREVA 24000-1 E | 1960 | 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.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- 5.0 kW dualsplit model for cooling and/or heating up to two domestic spaces simultaneously
- Energy efficiency class A++/A+
- R32 refrigerant gas with low environmental impact
- Outdoor unit with high-efficiency dual rotary compressor
- Indoor unit with four-speed fan to achieve high quietness levels, up to 18 dB(A) at superminimum speed
- Simple and elegant aesthetics in glossy white, with concealed display on the indoor units to show the active operating mode, temperature and any alarms
- Infra-red remote control with temperature sensor for enhanced user comfort
- Can be equipped with optional Wi-Fi kit for complete home comfort management even remotely, via dedicated app
- I-FEEL function for temperature adjustment based on that perceived by the remote control
- AUTOMATIC CLEANING and 56°C STERILISATION functions to ensure healthier air coming out of the air conditioner
- QUIET function for ultra-quiet operation at super low fan speed
- COMFORT SPLEEP function to optimise comfort during sleeping hours
- MAXIMUM POWER function to quickly reach the desired room conditions

## Air conditioners

| CODE | MODEL | DIMENSIONS (A) H x L x D (mm) | HEAT.(1)/COOL.(2) OUTPUT (kW) | CLASS SCOP | CLASS SEER |
|---|---|---|---|---|---|
| 20216942 | BREVA 18000-2 (9+9) E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 4,60 / 4,40 | A⁺ | A⁺⁺ |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206347 | BREVA EX 18000-2 E | 553 x 800(860) x 275 | - | - | - |
| 20216943 | BREVA 18000-2 (9+12) E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 4,60 / 4,40 | A⁺ | A⁺⁺ |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |
| 20206347 | BREVA EX 18000-2 E | 553 x 800(860) x 275 | - | - | - |
| 20216944 | BREVA 18000-2 (12+12) E | | | | |
| **CONSISTING OF:** | | | | | |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | 4,60 / 4,40 | A⁺ | A⁺⁺ |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |
| 20206347 | BREVA EX 18000-2 E | 553 x 800(860) x 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.

>> NEW

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20194065 | 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 E | 1400 | 275 | 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

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS
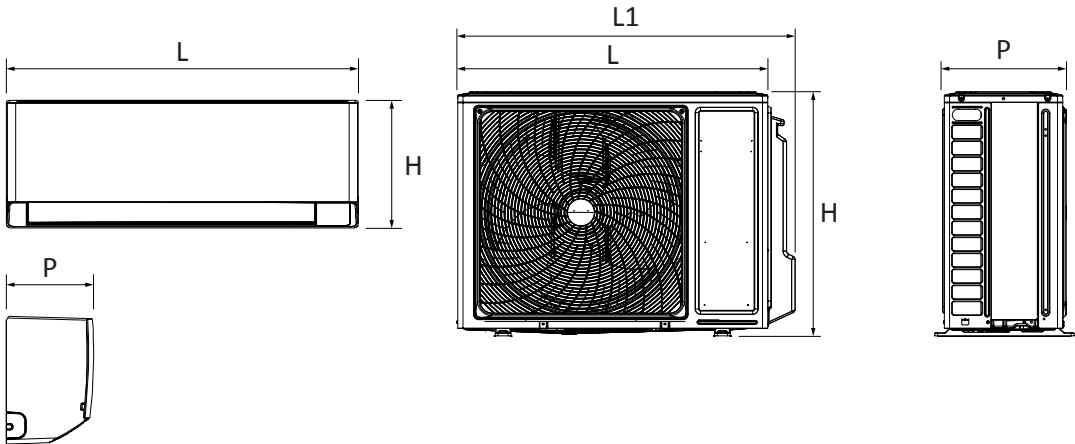
SYSTEM COMPLEMENTARY ITEMS

- 5.5 kW three-split models for simultaneous cooling and/or heating of up to three domestic rooms respectively with one outdoor unit
- Energy efficiency class A++/A+
- R32 refrigerant gas with low environmental impact
- Outdoor units with high-efficiency twin rotary compressor
- Indoor units with four-speed fan to achieve high quietness levels, up to 18 dB(A) at superminimum speed
- Simple and elegant aesthetics in glossy white, with display on board the indoor unit to show the active operating mode, temperature and any alarms
- Infra-red remote control with temperature sensor for enhanced user comfort
- Can be equipped with optional Wi-Fi kit for complete home comfort management even remotely, via dedicated app
- I-FEEL function for temperature adjustment based on that perceived by the remote control
- SELF CLEANING and 56°C STERILISATION functions to ensure healthier air coming out of the air conditioner
- QUIET function for ultra-quiet operation at super low fan speed
- COMFORT SPLEEP function to optimise comfort during sleeping hours
- MAXIMUM POWER function to quickly reach the desired room conditions

## Air conditioners

| CODE | MODEL | DIMENSIONS H x L x D (mm) | HEAT.[1]/COOL.[2] OUTPUT (kW) | CLASS SCOP | CLASS SEER |
|------|-------|----------------------------|--------------------------------|------------|------------|
| 20194330 | BREVA EX 18.000-3 (OUTDOOR UNITS) | 700 x 890 x 340 | | | |
| **COMBINED WITH:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 6,8 / 5,5 | A⁺ | A⁺⁺ |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| **COMBINED WITH:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 6,8 / 5,5 | A⁺ | A⁺⁺ |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |

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.
(3) EX means external unit only, IN means internal unit only.
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.

**≫ NEW**

Multisplit air conditioners
# BREVA TRIAL - WALL-HUNG MULTI INVERTER AIR CONDITIONERS

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20194065 | 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 EX 18.000-3 | 1679 | 258 | 3 x 6,35 | 3 x 9,52 | 30/15 |

(1) Maximum length with factory charge 20 m for trial split model 18000-3. Additional charge 20 g/m.
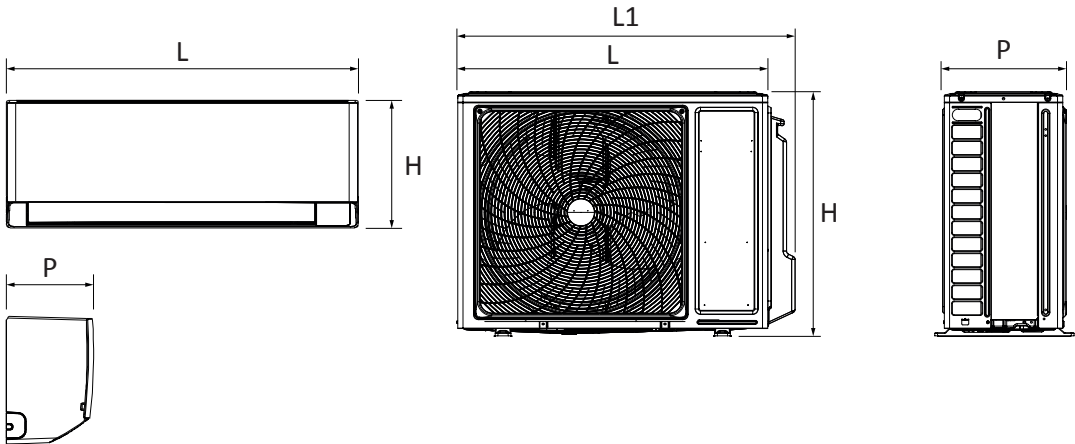
- 7.5 kW four-split models for simultaneous cooling and/or heating of up to four domestic rooms respectively with one outdoor unit
- Energy efficiency class A++/A+
- R32 refrigerant gas with low environmental impact
- Outdoor units with high-efficiency twin rotary compressor
- Indoor units with four-speed fan to achieve high quietness levels, up to 18 dB(A) at superminimum speed
- Simple and elegant aesthetics in glossy white, with display on board the indoor unit to show the active operating mode, temperature and any alarms
- Infra-red remote control with temperature sensor for enhanced user comfort
- Can be equipped with optional Wi-Fi kit for complete home comfort management even remotely, via dedicated app
- I-FEEL function for temperature adjustment based on that perceived by the remote control
- SELF CLEANING and 56°C STERILISATION functions to ensure healthier air coming out of the air conditioner
- QUIET function for ultra-quiet operation at super low fan speed
- COMFORT SPLEEP function to optimise comfort during sleeping hours
- MAXIMUM POWER function to quickly reach the desired room conditions

## Air conditioners

| CODE | MODEL | DIMENSIONS H X L X D (mm) | HEAT.(1)/COOL.(2) OUTPUT (kW) | CLASS SCOP | SEER |
|---|---|---|---|---|---|
| 20194331 | BREVA EX 24.000-4 (OUTDOOR UNITS) | 700 x 890 x 340 | | | |
| **COMBINED WITH:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 8,6 / 7,5 | A⁺ | A⁺⁺ |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| **COMBINED WITH:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 8,6 / 7,5 | A⁺ | A⁺⁺ |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |
| **COMBINED WITH:** | | | | | |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | 8,6 / 7,5 | A⁺ | A⁺⁺ |
| 20206321 | BREVA IN 9000 E | 290 x 805 x 200 | | | |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |
| 20206322 | BREVA IN 12000 E | 290 x 805 x 200 | | | |

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.
(3) EX means external unit only, IN means internal unit only.
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.

>> NEW

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Multisplit air conditioners

# BREVA QUADRI - WALL-HUNG MULTI INVERTER AIR CONDITIONERS

**Beretta**

## Accessories

| CODE | DESCRIPTION |
|------|-------------|
| 20194065 | 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 EX 24.000-4 | 2179 | 379 | 4 x 6,35 | 3 x 9,52 e 1 x 12,7 | 40/15 |

(1) Maximum length with factory charge 20 m for quadri split model 24000-4. Additional charge 20 g/m.
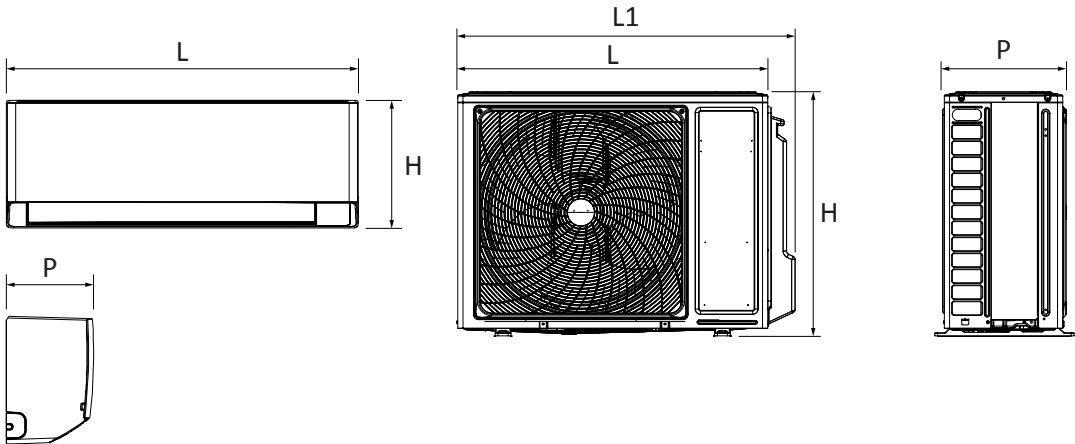
# TERMINAL UNITS »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

- **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 |

# Wall-mounted fan coils for heating, cooling and dehumidification
# TIVANO WALL

## 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**
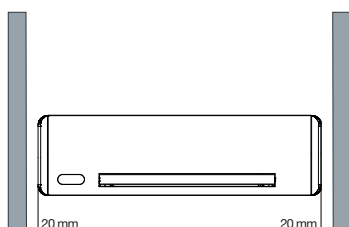


20 mm          20 mm

**TOP WALL-MOUNTED INSTALLATION**



120 mm

HYBRID SYSTEMS
HEAT PUMPS
WALL HUNG BOILERS
WATER-HEATERS
SOLAR THERMAL UNIT AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS
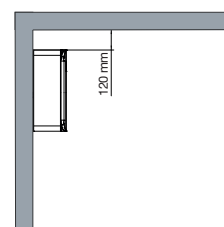
- **Fan coils and radiant fan coils for heating / cooling, dehumidification and air filtration.**
- High efficiency DC-Inverter Technology range.
- Five sizes of capacity (heating from 2.35 kW to 9.36 kW; cooling from 1.06 kW to 4.42 kW).
- Wall-mounted installation (vertical).
- Feet kit available as 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 |

* 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 |
|------|-------------|
| 20116481 | REMOTE CONTROL INTERFACE - interface board for three-speed control * |
| 20116484 | CONTROL PANEL ON BOARD BASIC - control for on board installation with speed selector |
| 20116486 | 2-way solenoid valve kit (for circulators at variable flow) |
| 20116489 | 3-way solenoid valve kit  for circulators at fixed flow) |
| 20116493 | 2-way taps kit |
| 20116500 | White feet kit |
| 20116503 | "L" coupling 90° kit |
| 20116505 | Fitting spacer kit |

* Control not included.

## Accessories for TIVANO

| CODE | DESCRIPTION |
|------|-------------|
| 20120559 | TIVANO 23 tray kit for ceiling installation |
| 20120560 | TIVANO 45 tray kit for ceiling installation |
| 20120562 | TIVANO 64 tray kit for ceiling installation |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# Fan coils and radiant fan coils for heating, cooling and dehumidification
## TIVANO

**Beretta**

## 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**
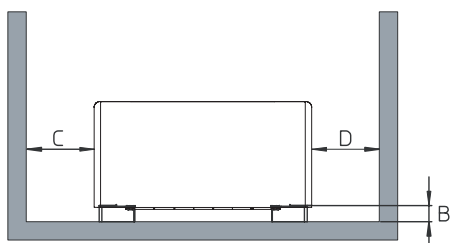


**WALL-MOUNTED INSTALLATION**



**CEILING INSTALLATION**

# Fan coils and radiant fan coils for heating, cooling and dehumidification
## TIVANO
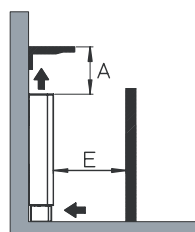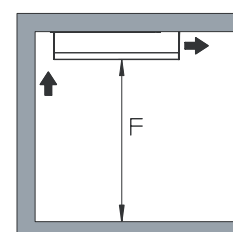
## Technical data

| 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.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# SYSTEM
# COMPLEMENTARY ITEMS »

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT
AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY ITEMS
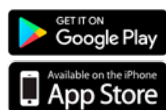
- Multiple manageable energy sources (gas, electric, hybrid)
- Latest generation APP
- Cooling and heating efficiency

## Smart remote control Hi, Comfort T300

| CODE | MODEL |
|---|---|
| 20205322 | Hi, Comfort T300 (1)(2)(3)(4) |
| 20134478 | Power supply T300 - REC 10H |

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

## Specific accessories

| CODE | DRAWING | DESCRIPTION |
|---|---|---|
| 20211852 | | **Environment control Hi, Comfort T200.**<br>To be used in combination with a controller via RF communication.<br>Advanced environment sensor, equipped with LCD display, allowing to view and adjust the temperature and the environment set, and the operating mode of the system and the zone it is associated with.<br>Powered by 2 AA batteries.<br>Supplied with plastic support for shelf installation. Class-ErP Contribution: VI-4% (*); I-1% (**). |

(*) With connection via OTBus.
(**) In on/off connection.

■ ≫ NEW

# Hi, Comfort T100 Wi-Fi

- Control with backlit display to manage your domestic comfort, even remotely with Smartphone and Tablet
- **Innovative and easy-to-use app**
- **Quick commissioning of the app through guided procedure**
- Connection to home ADSL Wi-Fi router for Internet access (wi-fi module available)
- Remote control of Beretta boilers in evoluted modulating way and of all boilers in ON/OFF
- Modulating chrono-thermostat for evoluted control (0.5 °C range) of Beretta boilers
- Universal ON/OFF chrono-thermostat for control of all boilers
- **Management of up to 8 independent mixed zones**
- Versatile communication: ON/OFF and OTBus wired and wireless
- Cooling mode available
- Room temperature modification from + 3°C to + 35°C with 0,2°C increments
- **Weekly time scheduling in 30 minutes intervals (even through APP)**
- Direct room temperature reading and internet based external temperature
- **Functioning mode: auto, manual, party, holiday, summer**
- Three changeable temperature levels: comfort, setback and anti-frost
- Battery status indicator
- Supplied with: batteries 1,5V TIPO AA, bi-adhesive tape, screws, anchors, double-sided tape, wall-mounted plate

## Wi-Fi Remote Controls and Chronothermostats

| CODE | MODEL | FUNCTIONS | DIMENSIONS H x L x P (mm) | CLASS - CONTRIBUTION ErP |
|------|-------|-----------|---------------------------|--------------------------|
| 20193354 | HI, COMFORT T100 WI-FI | Universal Chrono-thermostat ON/OFF (*) - Modulating (**) - Wi-Fi remote control | 89 x 135 x 28 | VI-4% (*); I-1% (**) |
| 20193352 | HI, COMFORT T100 | Universal Chrono-thermostat ON/OFF (*) - Modulating (**) - Remote control | 89 x 135 x 28 | V-3%(*); I-1% (**) |
| 20193355 | HI, COMFORT G100-W | Gateway for Internet access | 83 x 83 x 18 | V-3%(*); I-1% (**) |
| 20193356 | HI, COMFORT G100-R | Radio receiver to be connected to boiler | 83 x 83 x 18 | - |
| 20164477 | INTERFACE BOARD ITRF11 | Interface board to connect Hi, Comfort to Exclusive Boiler Green | - | - |

(1) With Hi, Comfort G100-W for internet connection through home ADSL Wi-Fi router.
(2) For wired connection to boiler. Available with radio based connection with Hi, Comfort G100-W cod. 20193355 for internet connection through home ADSL Wi-Fi router.
(3) With boilers Exclusive Boiler Green and Exclusive CAI article number 20164477 "Interface board ITRF11" is required  (only when OTBus is implemented).
(*) With BUS connection.
(**) With ON/OFF connection.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## Specific accessories

| CODE | DRAWING | DESCRIPTION |
|---|---|---|
| 20193354 |  | **Hi, Comfort T100 Wi-fi**<br>Complete KIT for wi-fi installation, containing a room control Hi, Comfort T100 and gateway Hi, Comfort G100-W. Package includes batteries, wires, transformer, screws, anchors, double-sided tape, magnetic tape and technical instructions.<br>Class-ErP grant: VI-4% (*); I-1% (**). |
| 20193352 |  | **Hi, Comfort T100**<br>Room thermostat Hi, Comfort T100 ideal for replacement and new buildings, both for single zone and for multi-zones application. Hi, Comfort T100 can be connected to the internet coupled with Hi, Comfort G100-W (optional). Package includes batteries, screws, anchors, double-sided tape and technical instructions.<br>Class-ErP grant: V-3% (*); I-1% (**). |
| 20193355 |  | **Hi, Comfort G100-W**<br>Hi, Comfort G100-W is the device permitting internet connection through domestic Wi-Fi net. It allows as well OT connection with the boiler for remote advanced control. Package includes wires, transformer, double-sided tape. |
| 20193356 |  | **Hi, Comfort G100-R**<br>Radio-frequency based device allowing wireless connection of control Hi, Comfort T100 to the boiler (both ON-OFF and through OTBus). It can be used as well when weakness of Wi-Fi signal preclude to install Hi, Comfort G100-W close to the boiler. |
| 20164477 |  | **Board interface ITRF11**<br>Interface Board used to connect Hi, Comfort to boilers Exclusive Boiler Green e Exclusive CAI. To be used only with OTBus connection; For operation in ON/OFF mode it is not required. |

(*) With BUS connection.
(**) With ON/OFF connection.

# Hi, Comfort K100

Beretta

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

GET IT ON Google Play

Available on the iPhone App Store

■ Remote control
■ **Multi-user management**
■ **Monitoring of operating times**
■ **Next generation app**
■ **Simple installation**
■ Special functions for DHW management
■ Geofencing
■ Possibility to manage several homes

## Hi, Comfort K100 smart key

| CODE | MODEL | DIMENSIONS H x L x P (mm) |
|------|-------|---------------------------|
| 20168501 | HI, COMFORT K100 | 14,6 x 86,8 x 34 |

- 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 x 86 x 20 |
| 20101748 | ALPHA 7D WIRELESS | 7-day digital room-thermostat wireless | I - 1% | 86 x 86 x 20 |

HYBRID SYSTEMS

HEAT PUMPS

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TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

Digital room thermostat
## ALPHA DGT / ALPHA DGT WIRELESS

**Beretta**

- 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 x 86 x 20 |
| 20059641 | ALPHA DGT WIRELESS | Digital room-thermostat wireless | I - 1% | 86 x 86 x 20 |
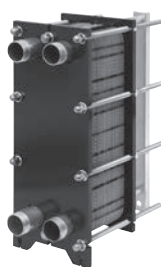
- AISI 316L stainless steel gasket plate heat exchangers
- NBR and EPDM gasket versions
- AISI 316L stainless steel thread connections
- Maximum operating temperature: 110 °C
- Maximum operating pressure: 10 bar

## Plate exchangers DN 50 - 65 - 100

| CODE | MODEL | No. OF PLATES | DN | MIX % | KIT C | KIT P | WEIGHT KG |
|---|---|---|---|---|---|---|---|
| **HEAT-EXCHANGER AISI 316 L, WITH EPDM PEROXIDE GASKETS** | | | | | | | |
| 20200581 | SP 20-DN32 29 (29A) E | 29 | Rp 1" 1/4 (G-M)* | 1 | Kit C1 | Kit P1 | 31,3 |
| 20200583 | SP 20-DN32 41 (41A) E | 41 | Rp 1" 1/4 (G-M)* | 1 | Kit C2 | Kit P1 | 34,7 |
| 20200584 | SP 30-DN32 17 (17A) E | 17 | Rp 1" 1/4 (G-M)* | 1 | Kit C3 | Kit P1 | 45 |
| 20200585 | SP 30-DN32 27 (27A) E | 27 | Rp 1" 1/4 (G-M)* | 1 | Kit C3 | Kit P1 | 48,7 |
| 20200586 | SP 30-DN32 37 (37A) E | 37 | Rp 1" 1/4 (G-M)* | 1 | Kit C4 | Kit P1 | 53,4 |
| 20200587 | SP 30-DN32 53 (53A) E | 53 | Rp 1" 1/4 (G-M)* | 1 | Kit C5 | Kit P1 | 61,5 |
| 20200588 | SP 30-DN32 69 (69A) E | 69 | Rp 1" 1/4 (G-M)* | 1 | Kit C5 | Kit P1 | 67,4 |
| 20200589 | SP 45-DN50 21 (11) E | 21 | Rp 2" (G-M)* | 0,5 | Kit C10 | Kit P2 | 119,7 |
| 20200590 | SP 45-DN50 29 (15) E | 29 | Rp 2" (G-M)* | 0,5 | Kit C10 | Kit P2 | 125,2 |
| 20200591 | SP 45-DN50 33 (17) E | 33 | Rp 2" (G-M)* | 0,5 | Kit C10 | Kit P2 | 128 |
| 20200592 | SP 45-DN50 39 (20) E | 39 | Rp 2" (G-M)* | 0,5 | Kit C10 | Kit P2 | 132,2 |
| 20200593 | SP 45-DN50 45 (23) E | 45 | Rp 2" (G-M)* | 0,5 | Kit C11 | Kit P2 | 140,6 |
| 20200594 | SP 45-DN50 51 (26) E | 51 | Rp 2" (G-M)* | 0,5 | Kit C11 | Kit P2 | 144,7 |
| 20200595 | SP 45-DN50 61 (31) E | 61 | Rp 2" (G-M)* | 0,5 | Kit C11 | Kit P2 | 151,6 |
| 20200596 | SP 45-DN50 73 (37) E | 73 | Rp 2" (G-M)* | 0,5 | Kit C12 | Kit P2 | 164,2 |
| 20200598 | SP 50-DN65 69 (52) E | 69 | Rp 2" 1/2 (G-M)* | 0,75 | Kit C15 | Kit P2 | 217,7 |
| 20200599 | SP 50-DN65 87 (66) E | 87 | Rp 2" 1/2 (G-M)* | 0,75 | Kit C16 | Kit P2 | 238,1 |
| 20200600 | SP 50-DN65 101 (76) E | 101 | Rp 2" 1/2 (G-M)* | 0,75 | Kit C16 | Kit P2 | 250,1 |
| 20200601 | SP 60-DN100 87 (87) E | 87 | DN100 - PN16 | 1 | Kit C17 | Kit P3 | 375,7 |
| 20200602 | SP 60-DN100 101 (101) E | 101 | DN100 - PN16 | 1 | Kit C17 | Kit P3 | 391,7 |
| 20200603 | SP 60-DN100 115 (115) E | 115 | DN100 - PN16 | 1 | Kit C18 | Kit P3 | 431,2 |
| 20200604 | SP 60-DN100 129 (129) E | 129 | DN100 - PN16 | 1 | Kit C18 | Kit P3 | 447,1 |
| **PLATE HEAT-EXCHANGER AISI 316 L, WITH NBR GASKETS** | | | | | | | |
| 20200606 | SP 20-DN32 11 (11) N | 11 | Rp 1" 1/4 (G-M)* | 1 | Kit C1 | Kit P1 | 27,1 |
| 20200607 | SP 20-DN32 21 (21) N | 21 | Rp 1" 1/4 (G-M)* | 1 | Kit C1 | Kit P1 | 29,4 |
| 20200608 | SP 20-DN32 29 (29) N | 29 | Rp 1" 1/4 (G-M)* | 1 | Kit C1 | Kit P1 | 31,2 |
| 20200609 | SP 20-DN32 41 (41) N | 41 | Rp 1" 1/4 (G-M)* | 1 | Kit C2 | Kit P1 | 34,8 |
| 20200610 | SP 20-DN32 49 (49) N | 49 | Rp 1" 1/4 (G-M)* | 1 | Kit C2 | Kit P1 | 36,6 |
| 20200611 | SP 35-DN50 21 (21) N | 21 | Rp 2" (G-M)* | 1 | Kit C6 | Kit P2 | 79,2 |
| 20200613 | SP 35-DN50 27 (27) N | 27 | Rp 2" (G-M)* | 1 | Kit C6 | Kit P2 | 81,7 |
| 20200614 | SP 35-DN50 33 (33) N | 33 | Rp 2" (G-M)* | 1 | Kit C6 | Kit P2 | 84,3 |
| 20200615 | SP 35-DN50 41 (41) N | 41 | Rp 2" (G-M)* | 1 | Kit C6 | Kit P2 | 87,7 |
| 20200616 | SP 35-DN50 49 (49) N | 49 | Rp 2" (G-M)* | 1 | Kit C7 | Kit P2 | 94,7 |
| 20200618 | SP 35-DN50 53 (53) N | 53 | Rp 2" (G-M)* | 1 | Kit C7 | Kit P2 | 96,4 |
| 20200619 | SP 35-DN50 61 (61) N | 61 | Rp 2" (G-M)* | 1 | Kit C7 | Kit P2 | 99,8 |
| 20200620 | SP 35-DN50 71 (71) N | 71 | Rp 2" (G-M)* | 1 | Kit C7 | Kit P2 | 104,1 |
| 20200621 | SP 35-DN50 81 (81) N | 81 | Rp 2" (G-M)* | 1 | Kit C8 | Kit P2 | 111,9 |
| 20200622 | SP 35-DN50 89 (89) N | 89 | Rp 2" (G-M)* | 1 | Kit C8 | Kit P2 | 115,3 |
| 20200623 | SP 35-DN50 101 (101) N | 101 | Rp 2" (G-M)* | 1 | Kit C8 | Kit P2 | 120,4 |
| 20209452 | SP 35-DN50 117 (117) N | 117 | Rp 2" (G-M)* | 1 | Kit C8 | Kit P2 | 124,1 |
| 20200624 | SP 40-DN65 17 (17) N | 17 | Rp 2" 1/2 (G-M)* | 1 | Kit C13 | Kit P2 | 102,3 |
| 20200626 | SP 40-DN65 21 (21) N | 21 | Rp 2" 1/2 (G-M)* | 1 | Kit C13 | Kit P2 | 104,7 |
| 20200628 | SP 40-DN65 25 (25) N | 25 | Rp 2" 1/2 (G-M)* | 1 | Kit C13 | Kit P2 | 107 |
| 20200631 | SP 40-DN65 33 (33) N | 33 | Rp 2" 1/2 (G-M)* | 1 | Kit C13 | Kit P2 | 111,7 |
| 20200633 | SP 40-DN65 41 (41) N | 41 | Rp 2" 1/2 (G-M)* | 1 | Kit C13 | Kit P2 | 116,4 |
| 20200635 | SP 50-DN65 35 (14) N | 35 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C14 | Kit P2 | 183,6 |
| 20200637 | SP 50-DN65 41 (17) N | 41 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C14 | Kit P2 | 188,7 |

Plate heat-exchangers

# SP - INSPECTABLE PLATE HEAT EXCHANGER

| CODE | MODEL | No. OF PLATES | DN | MIX % | KIT C | KIT P | WEIGHT KG |
|------|-------|---------------|-----|-------|-------|-------|-----------|
| 20200638 | SP 50-DN65 45 (18) N | 45 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 197,1 |
| 20200640 | SP 50-DN65 51 (21) N | 51 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 202,2 |
| 20200642 | SP 50-DN65 55 (22) N | 55 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 205,7 |
| 20200644 | SP 50-DN65 61 (25) N | 61 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 210,8 |
| 20200645 | SP 50-DN65 65 (26) N | 65 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 214,3 |
| 20200646 | SP 50-DN65 71 (29) N | 71 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C15 | Kit P2 | 219,4 |
| 20200647 | SP 50-DN65 79 (32) N | 79 | Rp 2" 1/2 (G-M)* | 0,4 | Kit C16 | Kit P2 | 231,2 |
| 20200648 | SP 60-DN100 41 (33) N | 41 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 323,7 |
| 20200658 | SP 60-DN100 45 (36) N | 45 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 328,3 |
| 20200659 | SP 60-DN100 51 (41) N | 51 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 335,2 |
| 20200663 | SP 60-DN100 61 (49) N | 61 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 346,8 |
| 20200665 | SP 60-DN100 67 (54) N | 67 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 353,7 |
| 20200667 | SP 60-DN100 77 (62) N | 77 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 365,3 |
| 20200670 | SP 60-DN100 87 (70) N | 87 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 376,8 |
| 20200672 | SP 60-DN100 97 (78) N | 97 | DN100 - PN16 | 0,8 | Kit C17 | Kit P3 | 388,4 |
| 20200673 | SP 60-DN100 109 (88) N | 109 | DN100 - PN16 | 0,8 | Kit C18 | Kit P3 | 425,7 |
| 20200674 | SP 60-DN100 119 (96) N | 119 | DN100 - PN16 | 0,8 | Kit C18 | Kit P3 | 437,3 |
| 20200675 | SP 60-DN100 139 (112) N | 139 | DN100 - PN16 | 0,8 | Kit C18 | Kit P3 | 460,4 |
| 20200676 | SP 60-DN100 169 (136) N | 169 | DN100 - PN16 | 0,8 | Kit C18 | Kit P3 | 495 |
| 20200677 | SP 60-DN100 201 (161) N | 201 | DN100 - PN16 | 0,8 | Kit C18 | Kit P3 | 532 |

(*) G-M: Gas - M

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] |
| 20203733 | Connection kit for plate heat exchanger DN125/DN65 |
| 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 | INSULATION KIT TYPE | MODEL EXCHANGER | No. OF PLATES |
|------|-------|---------------------|-----------------|---------------|
| 20096860 | Insulation kit SP 20 29 | C1 | 20 | 29 |
| 20096862 | Insulation kit SP 20 49 | C2 | 20 | 49 |
| 20096863 | Insulation kit SP 30 29 | C3 | 30 | 29 |
| 20096864 | Insulation kit SP 30 49 | C4 | 30 | 49 |
| 20096865 | Insulation kit SP 30 75 | C4 | 30 | 75 |
| 20140442 | Insulation kit SP 35 41 | C5 | 35 | 41 |
| 20140443 | Insulation kit SP 35 71 | C7 | 35 | 71 |
| 20140444 | Insulation kit SP 35 101 | C8 | 35 | 101 |
| 20140445 | Insulation kit SP 35 151 | C9 | 35 | 151 |
| 20201531 | Insulation kit SP 45 41 | C10 | 45 | 41 |
| 20201532 | Insulation kit SP 45 71 | C11 | 45 | 71 |
| 20201533 | Insulation kit SP 45 101 | C12 | 45 | 101 |
| 20201534 | Insulation kit SP 40 41 | C13 | 40 | 41 |
| 20201537 | Insulation kit SP 50 41 | C14 | 50 | 41 |
| 20201538 | Insulation kit SP 50 71 | C15 | 50 | 71 |
| 20201539 | Insulation kit SP 50 101 | C16 | 50 | 101 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# SP - INSPECTABLE PLATE HEAT EXCHANGER

| CODE | MODEL | INSULATION KIT TYPE | MODEL EXCHANGER | No. OF PLATES |
|---|---|---|---|---|
| 20096918 | Insulation kit SP 60 101 | C17 | 60 | 101 |
| 20116198 | Insulation kit SP 60 201 | C18 | 60 | 201 |
| 20120281 | P1 feet kit ** | - | SP 20-30 | - |
| 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
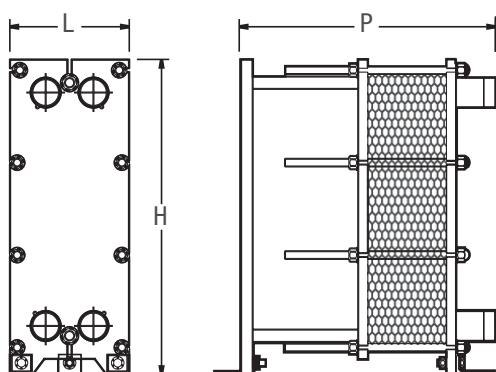


| COMMERCIAL NAME | No. OF PLATES from - to | H mm | L mm | P mm |
|---|---|---|---|---|
| SP 20 | 11-29 | 470 | 200 | 252 |
| | 41-49 | 470 | 200 | 352 |
| SP 30 | 17-27 | 755 | 200 | 252 |
| | 37 | 755 | 200 | 352 |
| | 53-69 | 755 | 200 | 552 |
| SP 35 | 21-41 | 678 | 310 | 408 |
| | 49-71 | 678 | 310 | 548 |
| | 81-117 | 678 | 310 | 688 |
| SP 40 | 17-41 | 729 | 385 | 408 |
| SP 45 | 21-39 | 1008 | 310 | 408 |
| | 45-61 | 1008 | 310 | 548 |
| | 73 | 1008 | 310 | 688 |
| SP 50 | 35-41 | 992 | 385 | 408 |
| | 45-71 | 992 | 385 | 548 |
| | 79-101 | 992 | 385 | 688 |
| SP 60 | 41-101 | 1124 | 509 | 790 |
| | 109-201 | 1124 | 509 | 1290 |

## 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 |
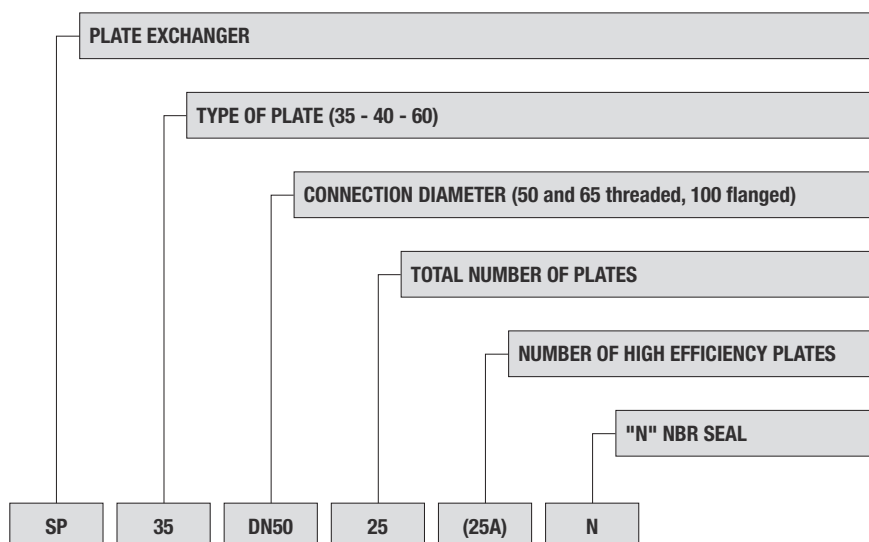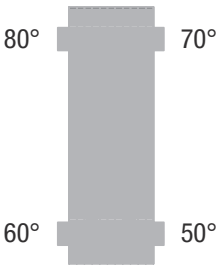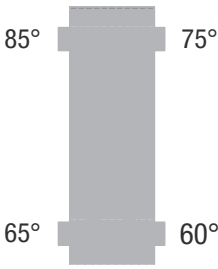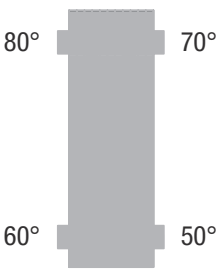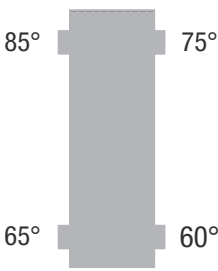
# SP - INSPECTABLE PLATE HEAT EXCHANGER

## Plate heat exchanger combinations for boiler operation with different ΔT ml

### POWER EVO X

HIGH TEMPERATURE COMBINATIONS

80°  70°
60°  50°

ΔT ml= 10 °C
ΔT primary= 20 °C
ΔT secondary= 20 °C
T Average secondary
circuit = 60 °C

85°  75°
65°  60°

ΔT ml= 7,2 °C
ΔT primary= 20 °C
ΔT secondary= 15 °C
T Average secondary
circuit = 67,5 °C

| NO. OF GENERATORS IN CASCADE | MODEL | DELIVERED OUTPUT [kW] | EXCHANGER | DN | CODE | EXCHANGER | DN | CODE |
|---|---|---|---|---|---|---|---|---|
| 2 | POWER EVO-X 2X 50 DEP | 70 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 |
| | POWER EVO-X 2X 50 | 90 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 27 (27) N | Rp 2" (Gas - M) | 20200613 |
| | POWER EVO-X 2x 65 | 110 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 |
| | POWER EVO-X 2x 80 | 140 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 |
| 3 | POWER EVO-X 3x 50 DEP | 105 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 27 (27) N | Rp 2" (Gas - M) | 20200613 |
| | POWER EVO-X 3x 50 | 140 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 |
| | POWER EVO-X 3x 65 | 165 | SP 35-DN50 27 (27) N | Rp 2" (Gas - M) | 20200613 | SP 35-DN50 41 (41) N | Rp 2" (Gas - M) | 20200615 |
| | POWER EVO-X 3x 80 | 210 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 | SP 35-DN50 49 (49) N | Rp 2" (Gas - M) | 20200616 |
| 4 | POWER EVO-X 4x 50 DEP | 140 | SP 35-DN50 21 (21) N | Rp 2" (Gas - M) | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 |
| | POWER EVO-X 4x 50 | 180 | SP 35-DN50 27 (27) N | Rp 2" (Gas - M) | 20200613 | SP 35-DN50 41 (41) N | Rp 2" (Gas - M) | 20200615 |
| | POWER EVO-X 4x 65 | 220 | SP 35-DN50 33 (33) N | Rp 2" (Gas - M) | 20200614 | SP 35-DN50 53 (53) N | Rp 2" (Gas - M) | 20200618 |
| | POWER EVO-X 4x 80 | 280 | SP 35-DN50 41 (41) N | Rp 2" (Gas - M) | 20200615 | SP 35-DN50 61 (61) N | Rp 2" (Gas - M) | 20200619 |

### POWER MAX

HIGH TEMPERATURE COMBINATIONS

80°  70°
60°  50°

ΔT ml= 10 °C
ΔT primary= 20 °C
ΔT secondary= 20 °C
T Average secondary
circuit = 60 °C

85°  75°
65°  60°

ΔT ml= 7,2 °C
ΔT primary= 20 °C
ΔT secondary= 15 °C
T Average secondary
circuit = 67,5 °C

| NO. OF GENERATORS IN CASCADE | MODEL | DELIVERED OUTPUT [kW] | EXCHANGER | DN | CODE | EXCHANGER | DN | CODE |
|---|---|---|---|---|---|---|---|---|
| 2 | Power Max 2x 65 P | 114 | SP 35-DN50 21 (21) N | Rp 2" (G-M)* | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 |
| | Power Max 2x 80 P | 136 | SP 35-DN50 21 (21) N | Rp 2" (G-M)* | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 |
| | Power Max 2x 100 | 180 | SP 35-DN50 27 (27) N | Rp 2" (G-M)* | 20200613 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 |
| | Power Max 2x 110 | 194 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 |
| | Power Max 2x 130 (115 Hi) | 224 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 | SP 35-DN50 53 (53) N | Rp 2" (G-M)* | 20200618 |
| | Power Max 2x 150 | 262 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 |

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## POWER MAX

HIGH TEMPERATURE COMBINATIONS

80° 70° / 60° 50°
ΔT ml= 10 °C
ΔT primary= 20 °C
ΔT secondary= 20 °C
T Average secondary circuit = 60 °C

85° 75° / 65° 60°
ΔT ml= 7,2 °C
ΔT primary= 20 °C
ΔT secondary= 15 °C
T Average secondary circuit = 67,5 °C
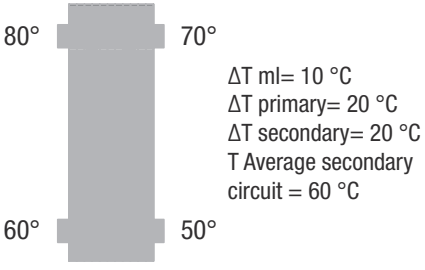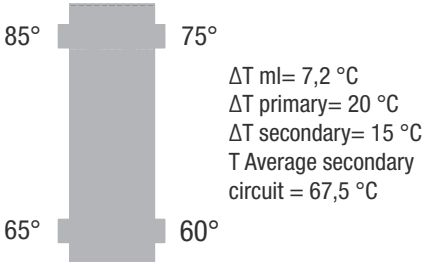
| NO. OF GENERATORS IN CASCADE | MODEL | DELIVERED OUTPUT [kW] | EXCHANGER | DN | CODE | EXCHANGER | DN | CODE |
|---|---|---|---|---|---|---|---|---|
| 3 | Power Max 3x 65 P | 171 | SP 35-DN50 27 (27) N | Rp 2" (G-M)* | 20200613 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 |
| | Power Max 3x 80 P | 204 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 |
| | Power Max 3x 100 | 270 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 |
| | Power Max 3x 110 | 291 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 71 (71) N | Rp 2" (G-M)* | 20200620 |
| | Power Max 3x 130 (115 Hi) | 336 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 | SP 35-DN50 81 (81) N | Rp 2" (G-M)* | 20200621 |
| | Power Max 3x 150 | 393 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 89 (89) N | Rp 2" (G-M)* | 20200622 |
| 4 | Power Max 4x 65 P | 228 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 | SP 35-DN50 53 (53) N | Rp 2" (G-M)* | 20200618 |
| | Power Max 4x 80 P | 272 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 |
| | Power Max 4x 100 | 360 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 | SP 35-DN50 81 (81) N | Rp 2" (G-M)* | 20200621 |
| | Power Max 4x 110 | 388 | SP 35-DN50 53 (53) N | Rp 2" (G-M)* | 20200618 | SP 35-DN50 89 (89) N | Rp 2" (G-M)* | 20200622 |
| | Power Max 4x 130 (115 Hi) | 448 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | Power Max 4x 150 | 524 | SP 50-DN65 35 (14) N | Rp 2" 1/2 (G -M)* | 20200635 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 |
| 5 | Power Max 5x 65 P | 285 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 71 (71) N | Rp 2" (G-M)* | 20200620 |
| | Power Max 5x 80 P | 340 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 | SP 35-DN50 81 (81) N | Rp 2" (G-M)* | 20200621 |
| | Power Max 5x 100 | 450 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | Power Max 5x 110 | 485 | SP 35-DN50 71 (71) N | Rp 2" (G-M)* | 20200620 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | Power Max 5x 130 (115 Hi) | 560 | SP 50-DN65 41 (17) N | Rp 2" (G-M)* | 20200637 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 |
| | Power Max 5x 150 | 655 | SP 50-DN65 45 (18) N | Rp 2" (G-M)* | 20200638 | SP 50-DN65 65 (26) N | Rp 2" 1/2 (G-M)* | 20200645 |
| 6 | Power Max 6x 65 P | 342 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 | SP 35-DN50 81 (81) N | Rp 2" (G-M)* | 20200621 |
| | Power Max 6x 80 P | 408 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 89 (89) N | Rp 2" (G-M)* | 20200622 |
| | Power Max 6x 100 | 540 | SP 50-DN65 35 (14) N | Rp 2" 1/2 (G -M)* | 20200635 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 |
| | Power Max 6x 110 | 582 | SP 50-DN65 41 (17) N | Rp 2" 1/2 (G -M)* | 20200637 | SP 50-DN65 61 (25) N | Rp 2" 1/2 (G-M)* | 20200644 |
| | Power Max 6x 130 (115 Hi) | 672 | SP 50-DN65 45 (18) N | Rp 2" 1/2 (G -M)* | 20200638 | SP 50-DN65 65 (26) N | Rp 2" 1/2 (G-M)* | 20200645 |
| | Power Max 6x 150 | 786 | SP 50-DN65 51 (21) N | Rp 2" 1/2 (G -M)* | 20200640 | SP 50-DN65 79 (32) N | Rp 2" 1/2 (G-M)* | 20200647 |
| 7 | Power Max 7x 65 P | 399 | SP 35-DN50 53 (53) N | Rp 2" (G-M)* | 20200618 | SP 35-DN50 89 (89) N | Rp 2" (G-M)* | 20200622 |
| | Power Max 7x 80 P | 476 | SP 35-DN50 71 (71) N | Rp 2" (G-M)* | 20200620 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | Power Max 7x 100 | 630 | SP 50-DN65 41 (17) N | Rp 2" 1/2 (G -M)* | 20200637 | SP 50-DN65 65 (26) N | Rp 2" 1/2 (G-M)* | 20200645 |
| | Power Max 7x 110 | 679 | SP 50-DN65 45 (18) N | Rp 2" 1/2 (G -M)* | 20200638 | SP 50-DN65 71 (29) N | Rp 2" 1/2 (G-M)* | 20200646 |
| | Power Max 7x 130 (115 Hi) | 784 | SP 50-DN65 51 (21) N | Rp 2" 1/2 (G -M)* | 20200640 | SP 50-DN65 79 (32) N | Rp 2" 1/2 (G-M)* | 20200647 |
| | Power Max 7x 150 | 917 | SP 60-DN100 45 (36) N | DN100 - PN16 | 20200658 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 |
| 8 | Power Max 8x 65 P | 456 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | Power Max 8x 80 P | 544 | SP 50-DN65 35 (14) N | Rp 2" 1/2 (G-M)* | 20200635 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 |
| | Power Max 8x 100 | 720 | SP 50-DN65 51 (21) N | Rp 2" 1/2 (G-M)* | 20200640 | SP 50-DN65 71 (29) N | Rp 2" 1/2 (G-M)* | 20200646 |
| | Power Max 8x 110 | 776 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 | SP 50-DN65 79 (32) N | Rp 2" 1/2 (G-M)* | 20200647 |
| | Power Max 8x 130 (115 Hi) | 896 | SP 60-DN100 45 (36) N | DN100 - PN16 | 20200658 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 |
| | Power Max 8x 150 | 1048 | SP 60-DN100 51 (41) N | DN100 - PN16 | 20200659 | SP 60-DN100 77 (62) N | DN100 - PN16 | 20200667 |
| 9 | Power Max 9x 65 P | 513 | SP 50-DN65 35 (14) N | Rp 2" 1/2 (G-M)* | 20200635 | SP 50-DN65 51 (21) N | Rp 2" 1/2 (G-M)* | 20200640 |
| | Power Max 9x 80 P | 612 | SP 50-DN65 41 (17) N | Rp 2" 1/2 (G-M)* | 20200637 | SP 50-DN65 61 (25) N | Rp 2" 1/2 (G-M)* | 20200644 |
| | Power Max 9x 100 | 810 | SP 60-DN100 41 (33) N | DN100 - PN16 | 20200648 | SP 60-DN100 61 (49) N | DN100 - PN16 | 20200663 |
| | Power Max 9x 110 | 873 | SP 60-DN100 45 (36) N | DN100 - PN16 | 20200658 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 |
| | Power Max 9x 130 (115 Hi) | 1008 | SP 60-DN100 51 (41) N | DN100 - PN16 | 20200659 | SP 60-DN100 77 (62) N | DN100 - PN16 | 20200667 |
| 10 | Power Max 10x 65 P | 570 | SP 50-DN65 41 (17) N | Rp 2" 1/2 (G-M)* | 20200637 | SP 50-DN65 61 (25) N | Rp 2" 1/2 (G-M)* | 20200644 |
| | Power Max 10x 80 P | 680 | SP 50-DN65 45 (18) N | Rp 2" 1/2 (G-M)* | 20200638 | SP 50-DN65 71 (29) N | Rp 2" 1/2 (G-M)* | 20200646 |
| | Power Max 10x 100 | 900 | SP 60-DN100 45 (36) N | DN100 - PN16 | 20200658 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 |
| | Power Max 10x 110 | 970 | SP 60-DN100 51 (41) N | DN100 - PN16 | 20200659 | SP 60-DN100 77 (62) N | DN100 - PN16 | 20200667 |
| | Power Max 10x 130 (115 Hi) | 1120 | SP 60-DN100 61 (49) N | DN100 - PN16 | 20200663 | SP 60-DN100 87 (70) N | DN100 - PN16 | 20200670 |

(*) G-M: Gas - M

# SP - INSPECTABLE PLATE HEAT EXCHANGER

## POWER MAX BOX

HIGH TEMPERATURE COMBINATIONS

80° — 70°
60° — 50°

ΔT ml= 10 °C
ΔT primary= 20 °C
ΔT secondary= 20 °C
T Average secondary
circuit = 60 °C

85° — 75°
65° — 60°

ΔT ml= 7,2 °C
ΔT primary= 20 °C
ΔT secondary= 15 °C
T Average secondary
circuit = 67,5 °C

| NO. OF GENERATORS IN CASCADE | MODEL | DELIVERED OUTPUT [kW] | EXCHANGER | DN | CODE | EXCHANGER | DN | CODE |
|---|---|---|---|---|---|---|---|---|
| 1 | POWER MAX BOX 130-2 P | 114 | SP 35-DN50 21 (21) N | Rp 2" (G-M)* | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 |
| | POWER MAX BOX 160-2 P | 136 | SP 35-DN50 21 (21) N | Rp 2" (G-M)* | 20200611 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 |
| | POWER MAX BOX 200-2 P | 180 | SP 35-DN50 27 (27) N | Rp 2" (G-M)* | 20200613 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 |
| | POWER MAX BOX 260-2 P | 224 | SP 35-DN50 33 (33) N | Rp 2" (G-M)* | 20200614 | SP 35-DN50 53 (53) N | Rp 2" (G-M)* | 20200618 |
| | POWER MAX BOX 300-2 P | 262 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 |
| | POWER MAX BOX 330-3 P | 291 | SP 35-DN50 41 (41) N | Rp 2" (G-M)* | 20200615 | SP 35-DN50 71 (71) N | Rp 2" (G-M)* | 20200620 |
| | POWER MAX BOX 390-3 P | 336 | SP 35-DN50 49 (49) N | Rp 2" (G-M)* | 20200616 | SP 35-DN50 81 (81) N | Rp 2" (G-M)* | 20200621 |
| | POWER MAX BOX 450-3 P | 393 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 89 (89) N | Rp 2" (G-M)* | 20200622 |
| | POWER MAX BOX 520-4 P | 448 | SP 35-DN50 61 (61) N | Rp 2" (G-M)* | 20200619 | SP 35-DN50 101 (101) N | Rp 2" (G-M)* | 20200623 |
| | POWER MAX BOX 600-4 P | 524 | SP 50-DN65 35 (14) N | Rp 2" 1/2 (G-M)* | 20200635 | SP 50-DN65 55 (22) N | Rp 2" 1/2 (G-M)* | 20200642 |
| 2 | POWER MAX BOX 750 | 655 | SP 50-DN65 45 (18) N | Rp 2" 1/2 (G-M)* | 20200638 | SP 50-DN65 65 (26) N | Rp 2" 1/2 (G-M)* | 20200645 |
| | POWER MAX BOX 900 | 786 | SP 50-DN65 51 (21) N | Rp 2" 1/2 (G-M)* | 20200640 | SP 50-DN65 79 (32) N | Rp 2" 1/2 (G-M)* | 20200647 |
| | POWER MAX BOX 1050 | 917 | SP 60-DN100 45 (36) N | DN100 - PN16 | 20200658 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 |
| | POWER MAX BOX 1200 | 1048 | SP 60-DN100 51 (41) N | DN100 - PN16 | 20200659 | SP 60-DN100 77 (62) N | DN100 - PN16 | 20200667 |
| 3 | POWER MAX BOX 1350 | 1179 | SP 60-DN100 61 (49) N | DN100 - PN16 | 20200663 | SP 60-DN100 87 (70) N | DN100 - PN16 | 20200670 |
| | POWER MAX BOX 1500 | 1310 | SP 60-DN100 67 (54) N | DN100 - PN16 | 20200665 | SP 60-DN100 97 (78) N | DN100 - PN16 | 20200672 |

(*) G-M: Gas - M

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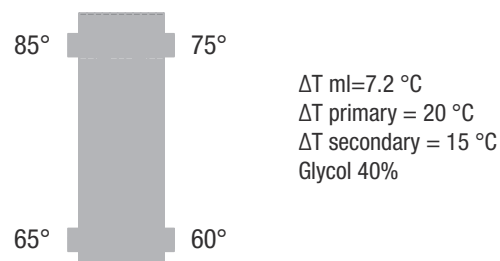AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS

# SP - INSPECTABLE PLATE HEAT EXCHANGER

## POWER MAX BOX

**Plate heat exchanger combinations for boiler operation with a mixture of water and glycol (max 40%)***

HIGH TEMPERATURE COMBINATIONS

85°  75°

65°  60°

ΔT ml=7.2 °C
ΔT primary = 20 °C
ΔT secondary = 15 °C
Glycol 40%

| NO. OF GENERATORS IN CASCADE | MODEL | DELIVERED OUTPUT [kW] | EXCHANGER | DN | CODE |
|---|---|---|---|---|---|
| 1 | POWER MAX BOX 130-2 P | 114 | SP 45-DN50 21 (11) E | Rp 2" (G-M)* | 20200589 |
| | POWER MAX BOX 160-2 P | 136 | SP 45-DN50 29 (15) E | Rp 2" (G-M)* | 20200590 |
| | POWER MAX BOX 200-2 P | 180 | SP 45-DN50 29 (15) E | Rp 2" (G-M)* | 20200590 |
| | POWER MAX BOX 260-2 P | 224 | SP 45-DN50 33 (17) E | Rp 2" (G-M)* | 20200591 |
| | POWER MAX BOX 300-2 P | 262 | SP 45-DN50 39 (20) E | Rp 2" (G-M)* | 20200592 |
| | POWER MAX BOX 330-3 P | 291 | SP 45-DN50 45 (23) E | Rp 2" (G-M)* | 20200593 |
| | POWER MAX BOX 390-3 P | 336 | SP 45-DN50 51 (26) E | Rp 2" (G-M)* | 20200594 |
| | POWER MAX BOX 450-3 P | 393 | SP 45-DN50 61 (31) E | Rp 2" (G-M)* | 20200595 |
| | POWER MAX BOX 520-4 P | 448 | SP 45-DN50 73 (37) E | Rp 2" (G-M)* | 20200596 |
| | POWER MAX BOX 600-4 P | 524 | SP 50-DN65 69 (52) E | Rp 2" 1/2 (G-M)* | 20200598 |
| 2 | POWER MAX BOX 750 | 655 | SP 50-DN65 87 (66) E | Rp 2" 1/2 (G-M)* | 20200599 |
| | POWER MAX BOX 900 | 786 | SP 50-DN65 101 (76) E | Rp 2" 1/2 (G-M)* | 20200600 |
| | POWER MAX BOX 1050 | 917 | SP 60-DN100 87 (87) E | DN100 - PN16 | 20200601 |
| | POWER MAX BOX 1200 | 1048 | SP 60-DN100 101 (101) E | DN100 - PN16 | 20200602 |
| 3 | POWER MAX BOX 1350 | 1179 | SP 60-DN100 115 (115) E | DN100 - PN16 | 20200603 |
| | POWER MAX BOX 1500 | 1310 | SP 60-DN100 129 (129) E | DN100 - PN16 | 20200604 |

(*) G-M: Gas - M

# PALLET CONFIGURATION AND KEY

## Wall-hung condensing boilers

| | |
|---|---|
| METEO GREEN | 6-piece pallet |
| METEO GREEN BOX | 6-piece pallet |
| EXCLUSIVE X 25 | 6-piece pallet |
| EXCLUSIVE X 30-35 | 4-piece pallet |
| EXCLUSIVE BOILER GREEN HE | 2-piece pallet |
| MYNUTE RAIN GREEN | 6-piece pallet |
| MYNUTE X 20 - 25 | 6-piece pallet |
| MYNUTE X 30 - 35 | 4-piece pallet |
| MYNUTE X BOX | 6-piece pallet |
| CIAO X | 6-piece pallet |
| MYNUTE E | 6-piece pallet |
| CIAO GREEN | 8-piece pallet |
| MYNUTE BOILER GREEN | 2-piece pallet |
| CIAO AT | 8-piece pallet |
| MYNUTE GREEN | 4-piece pallet |

## Condensing boiler base

| | |
|---|---|
| TOWER GREEN HE HYBRID | 1-piece pallet |
| TOWER GREEN HE S | 1-piece pallet |
| TOWER GREEN HE | 1-piece pallet |
| TOWER GREEN COMPACT | 1-piece pallet |

## Standard wall-hung boilers

| | |
|---|---|
| METEO C.A.I. LX | 6-piece pallet |
| MYNUTE C.A.I. LX | 6-piece pallet |
| CIAO C.A.I. LX | 6-piece pallet |

## Water heaters / DHW heat pumps

| | |
|---|---|
| HP-E 260 | 1-piece pallet |
| ACQUAZENIT | 1-piece pallet |
| IDRABAGNO 11 - 13 | 12-piece pallet |
| IDRABAGNO 17 | 6-piece pallet |
| IDRABALCONY | 6-piece pallet |
| FONTE LX | 12-piece pallet |

## Type of gas

| | |
|---|---|
| MTN | Methane |
| GPL | Liquid gas |

## Wall-hung boiler and Base

| | |
|---|---|
| R.A.I. | Heating open ionised |
| R.S.I. | Heating condensing |
| R | Heating condensing |
| C.A.I. | Combi open ionised |
| C.S.I. | Combi condensing |
| C | Combi condensing |
| B.A.I. | Storage cylinder open ionised |
| B.S.I. | Storage cylinder condensing |
| AG | Anti-freeze kit as standard |
| HE | High-efficiency |
| X | Stainless steel heat exchanger |

## Water heaters

| | |
|---|---|
| FONTE | Open ionised coil |
| IDRABAGNO | Watertight ionised |

## CERTIFIED BOILERS AND WATER HEATERS

C€

NOTES: These technical data are approximate; for the true values, refer to the technical datasheets.

HYBRID SYSTEMS

HEAT PUMPS

WALL HUNG BOILERS

WATER-HEATERS

SOLAR THERMAL UNIT AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

# Beretta

08 | **2024**

**PRODUCT CATALOG**

27022943_00 - 08/2024