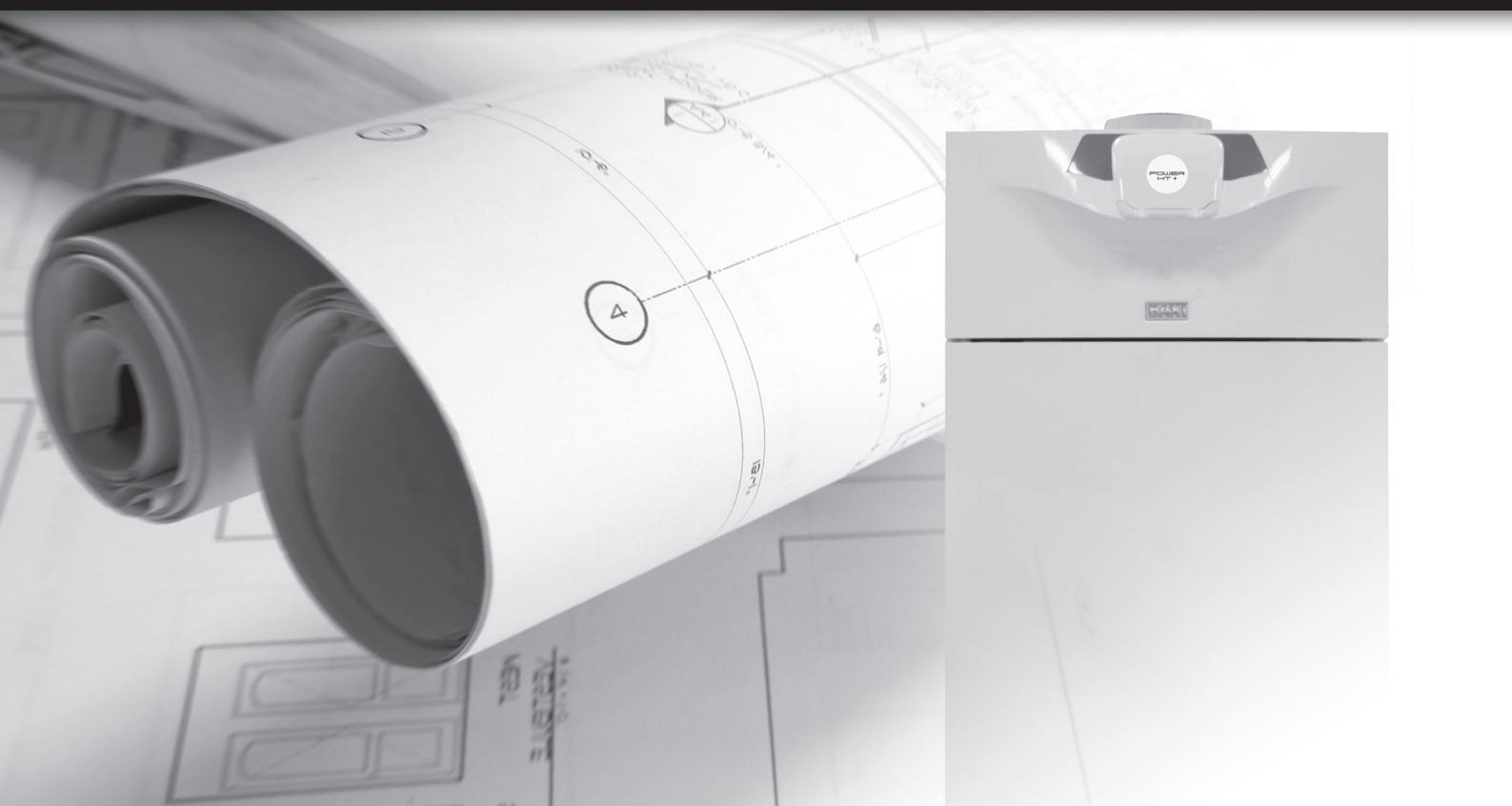


# BAXI

## Power HT+



## Power HT+ 50-250 kW

### Floor standing commercial condensing boilers

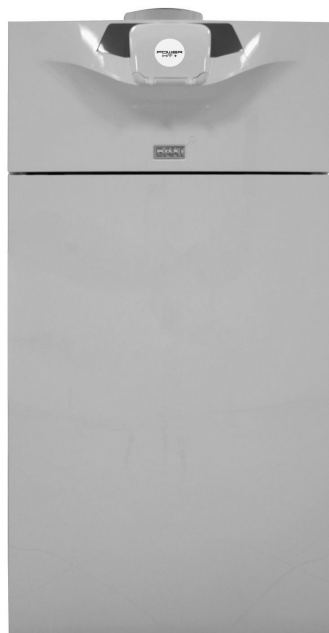
The range of high output floor standing boilers POWER HT+ consists of condensing heat generators for heating only, with output between 50 and 250 kW (50/30°C).

Main features:

- **high modulation ratio (models up to 110 kW, 1:9; models from 130 to 250 kW, 1:5);**
- nominal **efficiency** 50/30°C: **105%**;
- **heat exchanger** with combustion chamber and stainless steel coil hydraulic system, single chamber models 50 and 70 kW, double chamber models 90-250 kW;
- low water content in the exchanger that means very limited thermal inertia and therefore a rapid response to the variations in thermal energy required by the system;
- premixing unit with double clapet technique, ensuring that the burner constantly has an optimal air/gas ratio independently from the number of fan revs, keeping consumption to a minimum and always guaranteeing correct combustion and consequently a reduction in polluting emissions;
- **NTC sensor on flow and return** for a more precise modulation;
- **digital PCB with latest generation double microprocessor**;
- control panel with large back-lit LCD;
- **stainless steel burner** for 1.50, 1.70, 1.90, 1.130, 1.150, 1.200 and 1.250 models and metallic fiber for 1.110 model;
- high efficiency full modulating circulating pump – available with the hydraulic connection;
- adjustable speed fan and insulation for a noiseless operation;
- **electronics that allows great flexibility** in highly diversified contexts. With specific accessories that can also be installed inside the boiler, it is possible to control mixing zones, daily and weekly programming of heating and sanitary functions, cascade, recirculation and other functions;
- 0-10 V control available as optional;
- accessories for single or cascade installation;
- hydraulic accessories to install from 2 to 6 boilers in cascade;
- operation with natural gas and LPG (the G31 gas conversion nozzle kit is included inside the documents envelope for the POWER HT+ 1.130 - 1.150 - 1.200 and 1.250 boilers).

# Available models

Heating only boilers with possibility to connect a DHW tank



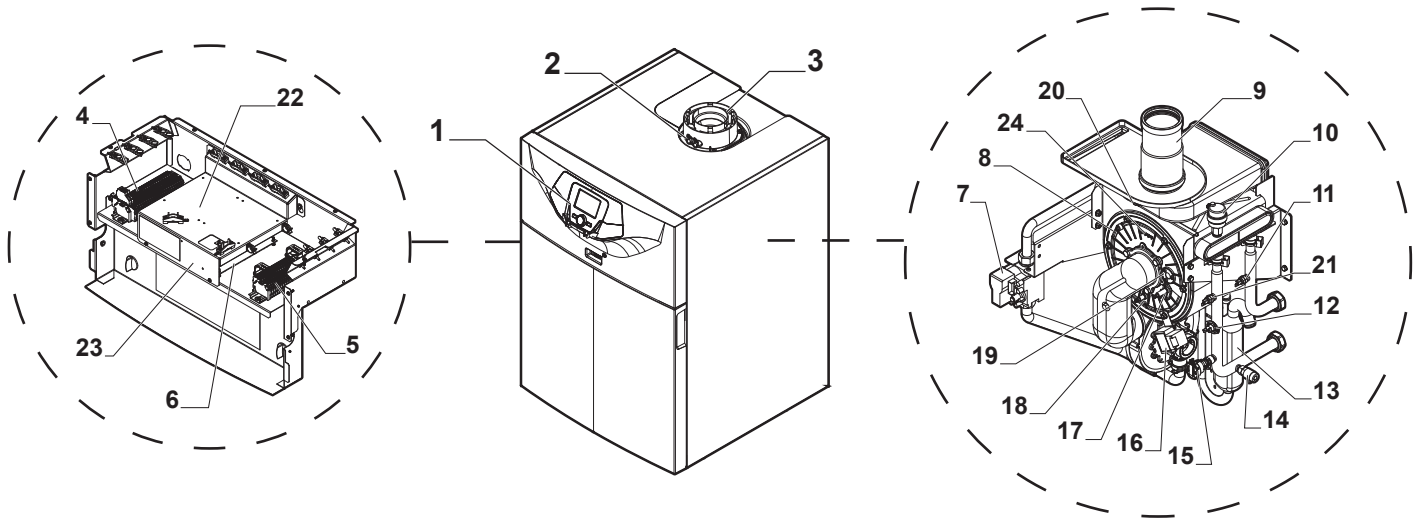
Model	Power range (kW)	
	$\Delta T$ 50/30°C	$\Delta T$ 80/60 °C
Power HT+ 1.50	5,4 to 48,6	5 to 45
Power HT+ 1.70	7,8 to 70,2	7,2 to 65
Power HT+ 1.90	10,2 to 91,8	9,4 to 85
Power HT+ 1.110	12,3 to 110,2	11,4 to 102
Power HT+ 1.130	26,2 to 130,6	24,3 to 121,5
Power HT+ 1.150	30,2 to 150,9	28,1 to 140,3
Power HT+ 1.200	33,1 to 200	31 to 185,9
Power HT+ 1.250	41,7 to 250	38,8 to 232,8

Model	NO <sub>x</sub> EMISSION LEVEL
Power HT+ 1.50	27 mg/kWh
Power HT+ 1.70	31 mg/kWh
Power HT+ 1.90	36 mg/kWh
Power HT+ 1.110	22 mg/kWh
Power HT+ 1.130	17 mg/kWh
Power HT+ 1.150	23 mg/kWh
Power HT+ 1.200	37 mg/kWh
Power HT+ 1.250	39 mg/kWh

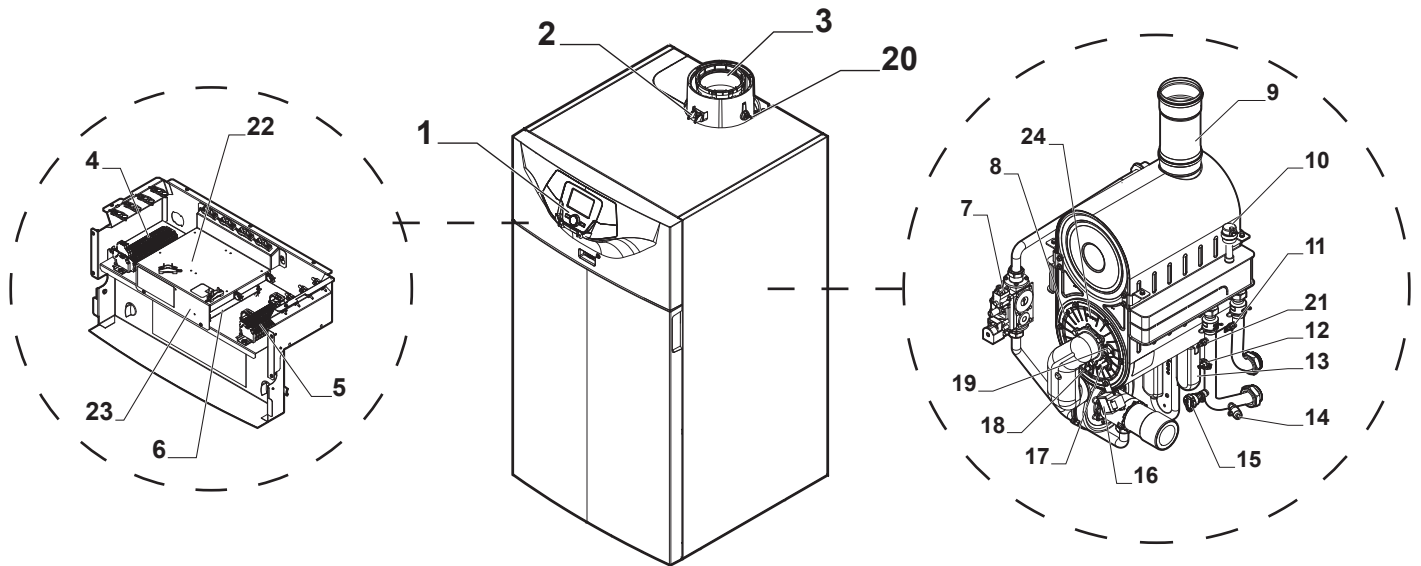
## Technical specifications

### Power HT+ 1.50 - 1.250

#### Power HT+ 1.50 - 1.70



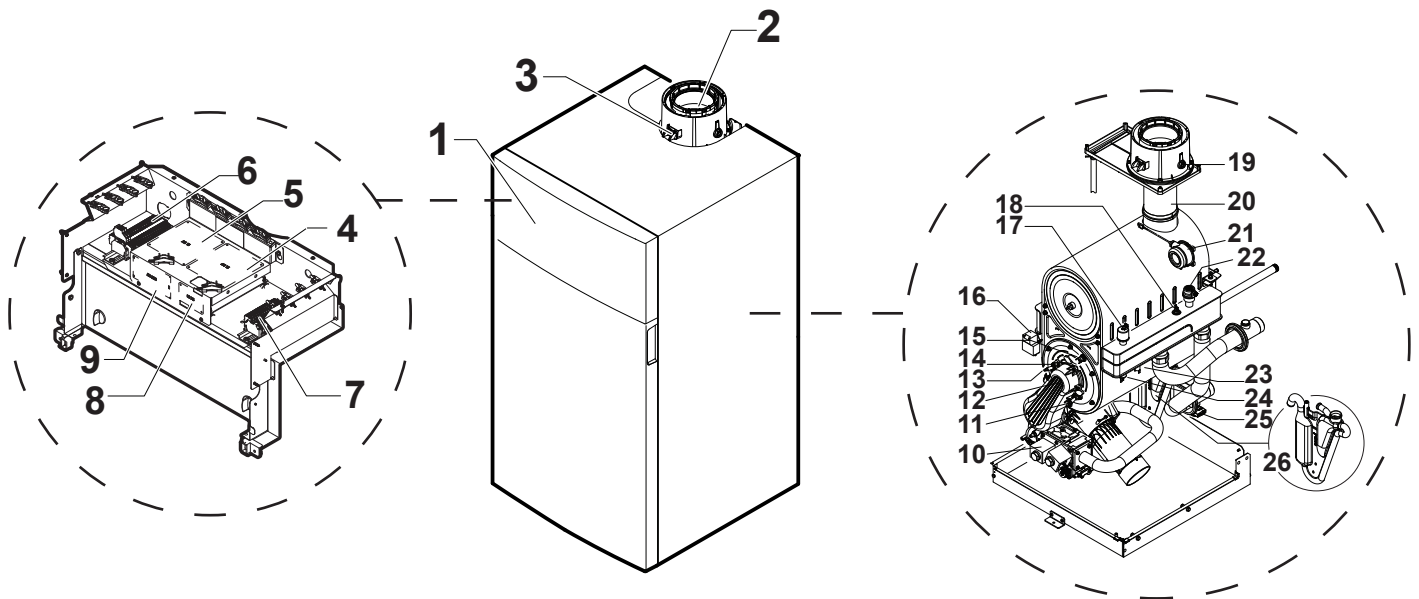
#### Power HT+ 1.90 - 1.110



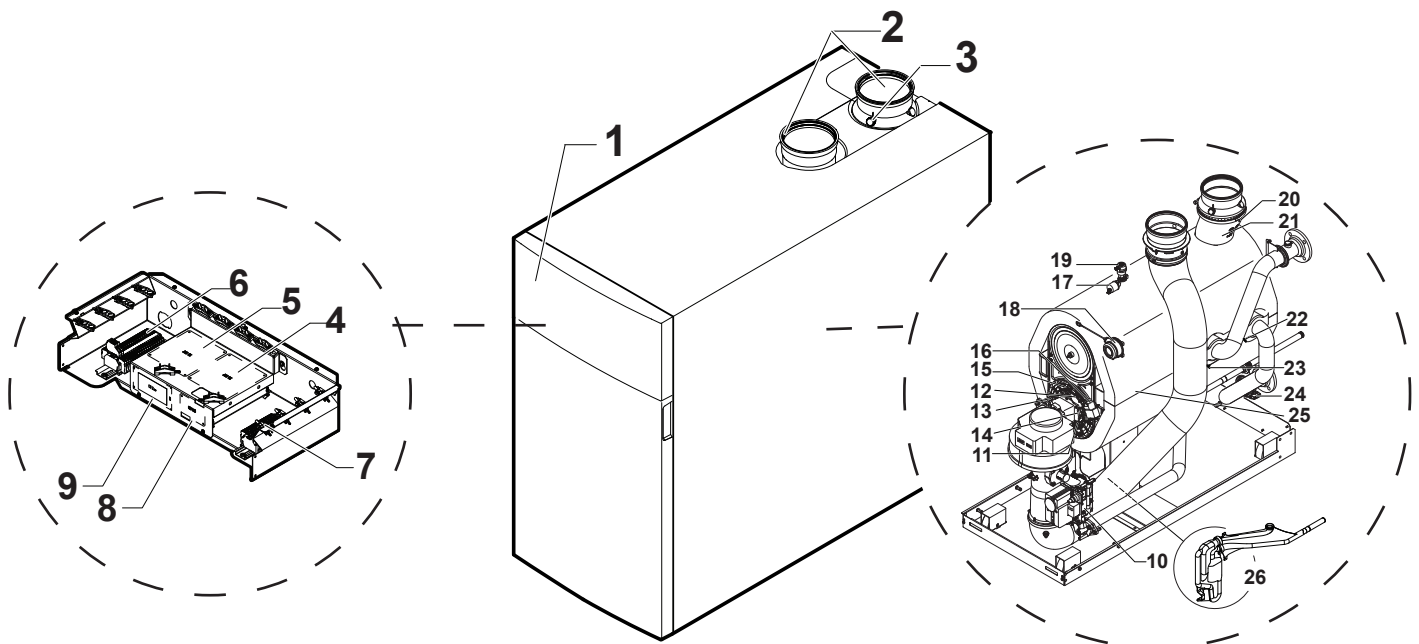
- |    |   |    |  |
|----|---|----|--|
| 1  | Control panel   | 16 | Ignition transformer   |
| 2  | Flue gas measuring point                              | 17 | Ignition electrode   |
| 3  | Flue gas connection                                   | 18 | Ionisation electrode   |
| 4  | Power supply terminal block                           | 19 | Flame inspection window  |
| 5  | Terminal block for the sensors and the remote control | 20 | Flue gas sensor  |
| 6  | PCB controller  | 21 | Flow temperature sensor  |
| 7  | Gas valve   | 22 | Mounting point for a maximum of two AVS 75 modules. A third AVS 75 module can be added, but it must be fixed to the wall and powered externally. |
| 8  | Burner  | 23 | Mounting point for communication module OCI 345  |
| 9  | Flue gas fitting                                      | 24 | Safety thermostat on the combustion chamber door   |
| 10 | Automatic air vent                                    |    |  |
| 11 | Return temperature sensor                             |    |  |
| 12 | Overtemperature safety thermostat                     |    |  |
| 13 | Condensate siphon                                     |    |  |
| 14 | Drain valve   |    |  |
| 15 | Hydraulic pressure sensor                             |    |  |

**Caution**  
 Danger of short circuit on the OCI 345 communication module if it is fixed in another emplacement.

## Power HT+ 1.130 - 1.150



## Power HT+ 1.200 - 1.250



- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>1 Control panel</li> <li>2 Flue gas connection</li> <li>3 Flue gas measuring point</li> <li>4 PCB controller</li> <li>5 Mounting point for a maximum of two AVS 75 modules. A third AVS 75 module can be added, but it must be fixed to the wall and powered externally.</li> <li>6 Power supply terminal block</li> <li>7 Terminal block for the sensors and the remote control</li> <li>8 Mounting point for communication module OCI 345</li> <li>9 Mounting point for AGU 2.551</li> </ul> | <ul style="list-style-type: none"> <li>10 Gas valve</li> <li>11 Ionisation electrode</li> <li>12 Burner</li> <li>13 Ignition electrode</li> <li>14 Flame inspection window</li> <li>15 Safety thermostat on the combustion chamber door</li> <li>16 Ignition transformer</li> <li>17 Hydraulic pressure sensor</li> <li>18 Return temperature sensor (130-150 kW) / Flue pressure sensor (200-250 kW)</li> <li>19 Flue gas sensor (130-150 kW) / Automatic air vent (200-250 kW)</li> <li>20 Flue gas fitting (130-150 kW) / Flue gas sensor (200-250 kW)</li> <li>21 Flue pressure sensor (130-150 kW) /</li> </ul> | <ul style="list-style-type: none"> <li>Flue gas fitting (200-250 kW)</li> <li>22 Automatic air vent (130-150 kW) / Return temperature sensor (200-250 kW)</li> <li>23 Overtemperature safety thermostat (130-150 kW) / Flow temperature sensor (200-250 kW)</li> <li>24 Flow temperature sensor (130-150 kW) / Drain valve (200-250 kW)</li> <li>25 Drain valve (130-150 kW) / Condensate siphon (200-250 kW)</li> <li>26 Condensate siphon (130-150 kW)</li> </ul> <p><b>Caution</b><br/> <b>Danger of short circuit on the OCI 345 communication module if it is fixed in another emplacement.</b></p> |
|---|--|--|

Power HT+	Heating only								
		1.50	1.70	1.90	1.110	1.130	1.150	1.200	1.250
Maximum heat input (heating)	kW	46,3	66,9	87,4	104,9	123,8	143	191	240
Minimum heat output	kW	5,1	7,4	9,7	11,7	24,8	28,6	31,8	40
Rated heat output (80/60°C) <i>Prated</i>	kW	45	65	85	102	121,5	140,3	185,9	232,8
Minimum heat output (80/60°C)	kW	5	7,2	9,4	11,4	24,3	28,1	31	38,8
Maximum heat output (50/30°C)	kW	48,6	70,2	91,8	110,2	130,6	150,9	200	250
Minimum heat output (50/30°C)	kW	5,4	7,8	10,2	12,3	26,2	30,2	33,1	41,7
Useful heat output at 30% of rated heat output and low temperature regime** $P_1$	kW	15	21,7	28,3	34	40,4	46,6	36	46
Seasonal space heating energy efficiency class		A	A	-	-	-	-	-	-
Efficiency $P_n$ (lower calorific value) - Average temperature 70°C	%	97,4	97,2	97,3	97,2	98,1	98,1	97,32	97,02
Efficiency at 30% (lower calorific value) - Return temperature 30°C	%	108,4	108,1	108,2	108,1	108,5	108,5	109,1	109,1
Useful efficiency at rated heat output and high temperature regime* $\eta_4$	%	87,7	87,6	87,7	87,6	88,4	88,4	87,7	87,4
Useful efficiency at 30% of rated heat output and low temperature regime** $\eta_1$	%	97,7	97,4	97,5	97,4	97,8	97,8	98,3	98,3
Seasonal space heating energy efficiency $\eta_s$	%	93	93	93	93	93	93	94	94
NOx emissions	mg/kWh	27	31	36	22	17	23	37	39
Maximum pressure heating circuit	bar	4	4	4	4	6	6	6	6
Maximum inlet temperature heating circuit	°C	85	85	85	85	85	85	85	85
Heating temperature range	°C	25-80	25-80	25-80	25-80	25-80	25-80	25-80	25-80
Water content	l	2,81	4,98	8,34	9,83	10	11	13	15
Dual flue system	mm	80	80	110	110	110	110	150	150
Maximum flue mass flow rate	kg/s	0,075	0,111	0,144	0,169	0,201	0,23	0,322	0,411
Minimum flue mass flow rate	kg/s	0,007	0,014	0,018	0,018	0,043	0,05	0,054	0,069
Maximum flue temperature	°C	92	76	70	70	70	70	80	80
Dimensions (hxwxd)	mm	904x600x681			1221x600x681			1238x600x1410	
Net weight	kg	60	70	104	109	126	132	212	232
Gas type		Natural Gas/LPG							
Power consumption	W	100	117	146	185	187	283	242	369
Auxiliary electrical power consumption - Full load $el_{max}$	W	100	117	146	185	187	283	242	369
Auxiliary electrical power - Partial load $el_{min}$	W	23	24	24	24	51	52	47	48

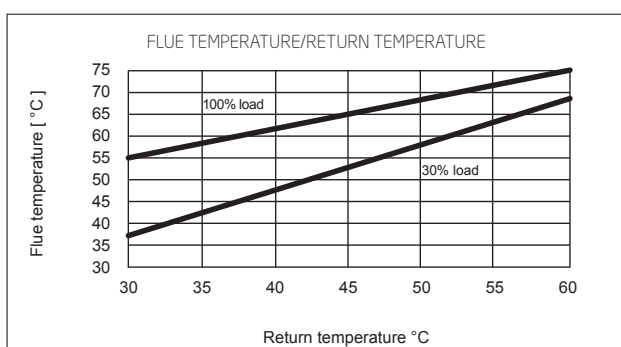
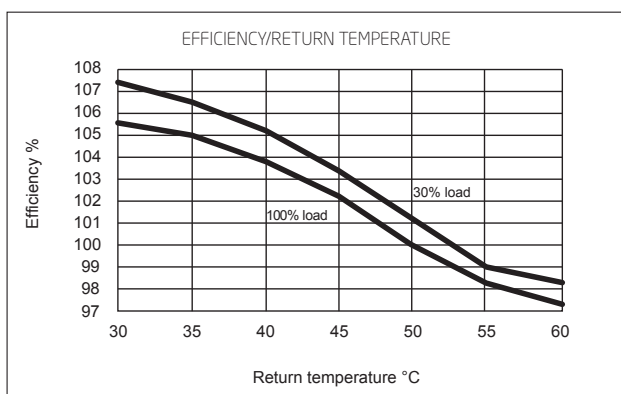
# Burner - Exchanger unit

The air-gas premixing unit, the burner and the primary exchanger are the components that ensure high performances from these condensing heat generators.

The premixing unit is a new conception which, thanks to a new design and the double clapet technique, ensures that the burner constantly has an optimal air/gas ratio independently from the number of fan revs, keeping consumption to a minimum and always guaranteeing correct combustion and consequently a reduction in polluting emissions. On the same subject of energy saving and highest performances, this new component permits achievement of a modulation ratio of 1:9 (1:5 in 130-250 kW range), giving the generator such great flexibility as to be adaptable to great variations in thermal load, as happens increasingly in new generation multifamily homes.

In the range from 50 to 250 kW the stainless steel burner, through the internal diffuser and special micro-perforation on the cylindrical surface, achieves uniform distribution of the air/gas mixture independently of its length. In 110 kW boiler the burner is in metal fibre. This produces a spread of very short flame for optimal heat radiation while minimising the formation of nitrogen oxides.

In the range from 50 to 70 kW the primary exchanger, entirely in stainless steel, comprises one single burner/fumes chamber, which keeps the size of the generator down for high power and actually more versatile installations even in relatively restricted spaces. The two highest powered generators (90 and 250 kW) employ the dual chamber exchanger in stainless steel. The two cylindrical fumes chambers set vertically (burner chamber and condensation chamber) contain the stainless steel coils that carry the primary circuit water. In the upper chamber the hot exhaust gases transfer heat to the system return water in the coils, bringing about condensation of the fumes themselves and thus transferring the latent heat to the water, preheating it prior to its entry into the burner chamber.

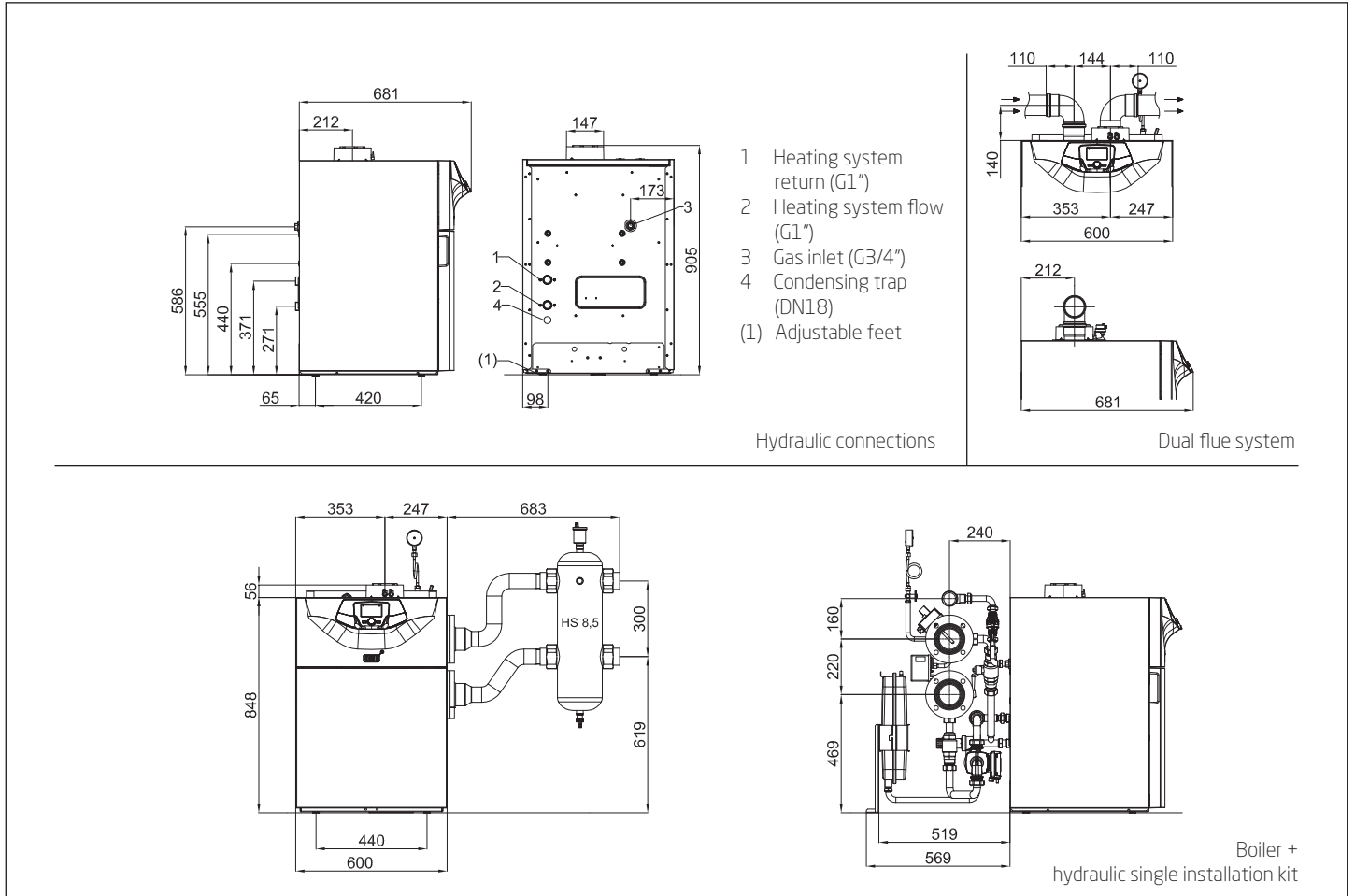


## ErP Pump-main features:

- Remotely speed-controlled, high-efficiency pump fitted with electronically commutated motor (ECM) with permanent-magnet rotor and frequency converter
- Validated components, second generation of the first boiler-integrated variable-speed ECM circulator pumps
- Fits into existing boiler ranges, no expanded space requirements, possible use of existing pump housings, electrical compatibility with existing PWM controllers and no ambient-temperature constraints (EN 60335)
- Energy-optimized due to improved hydraulic efficiency. Use up to 80% less electrical power than conventional constant-speed pumps

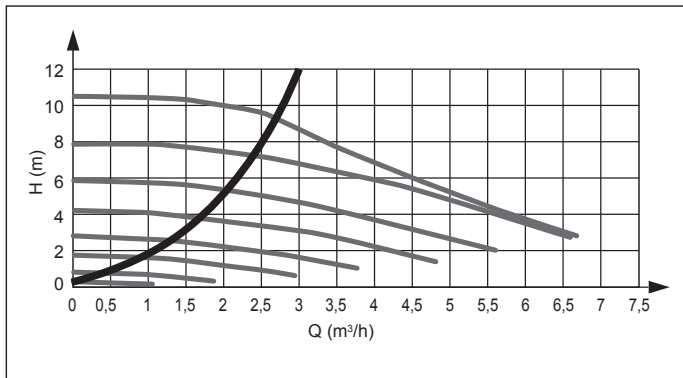
## Single installation

Power HT+ 1.50 - 1.70

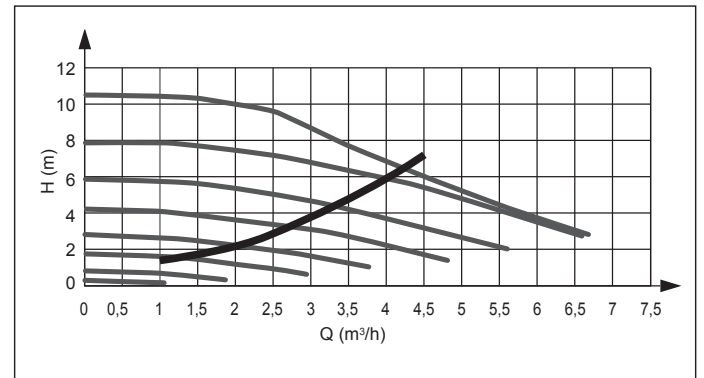


## Hydraulic exchanger losses and pump head curves

Power HT+ 1.50



Power HT+ 1.70

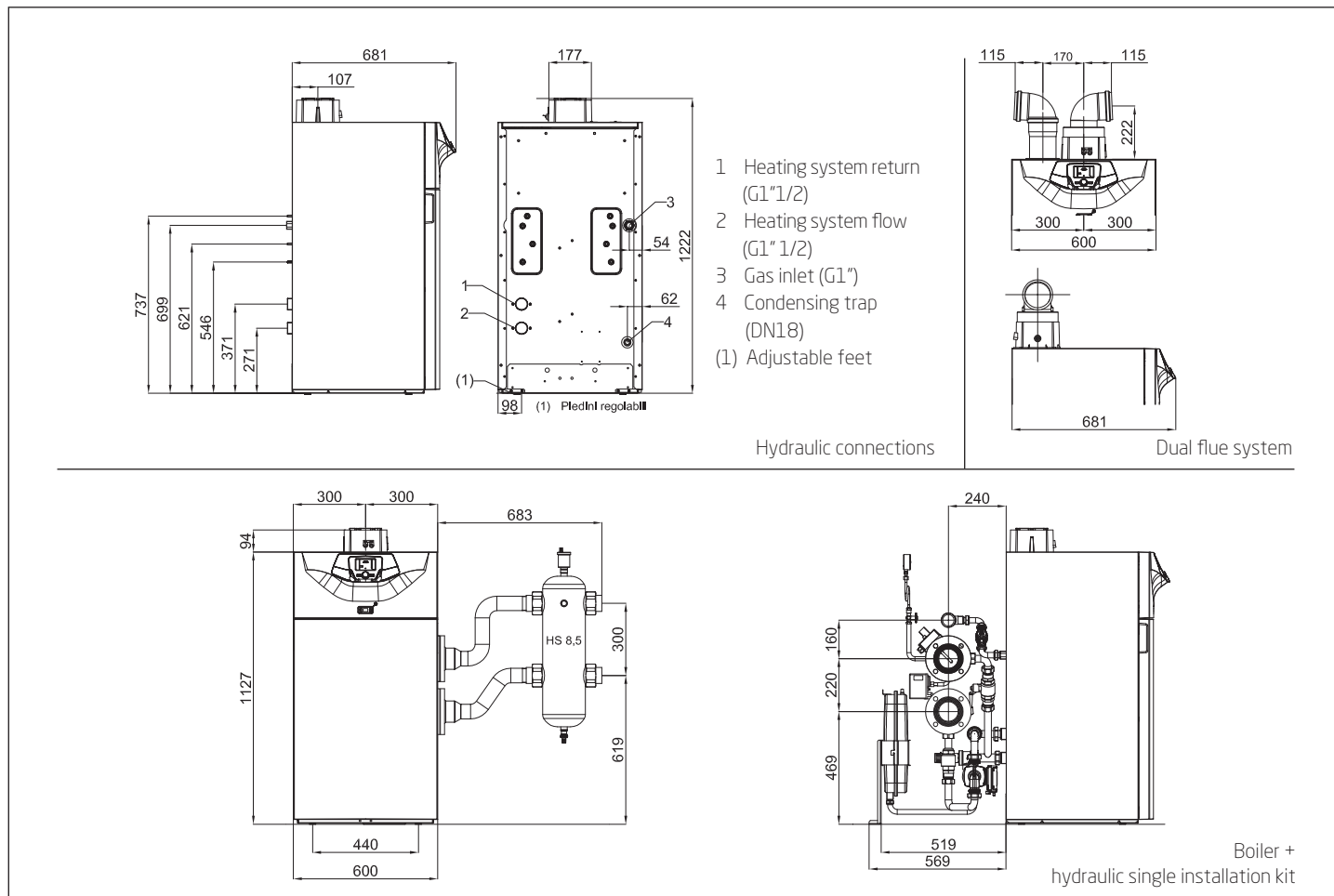


- Hydraulic exchanger losses
- Pump head (in the hydraulic accessory)



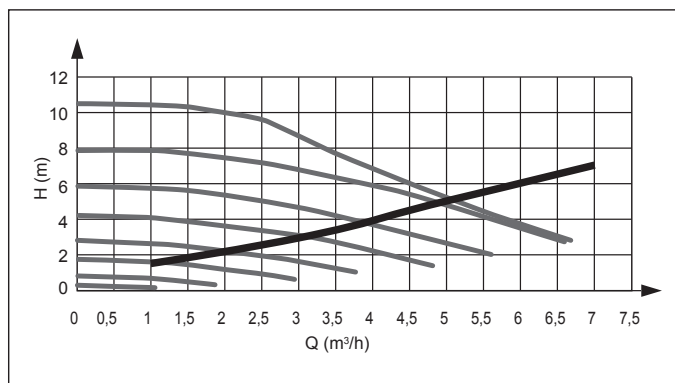
# Single installation

Power HT+ 1.90 - 1.110

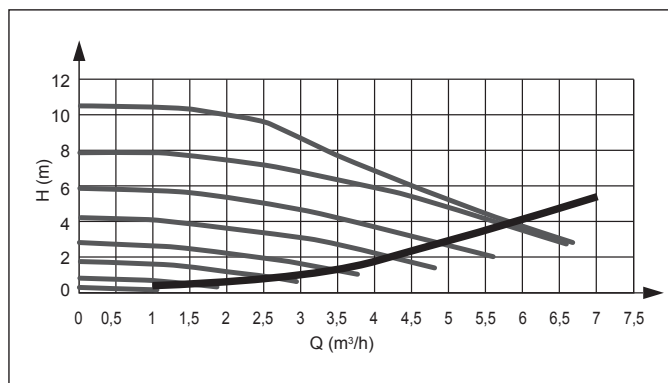


## Hydraulic exchanger losses and pump head curves

Power HT+ 1.90



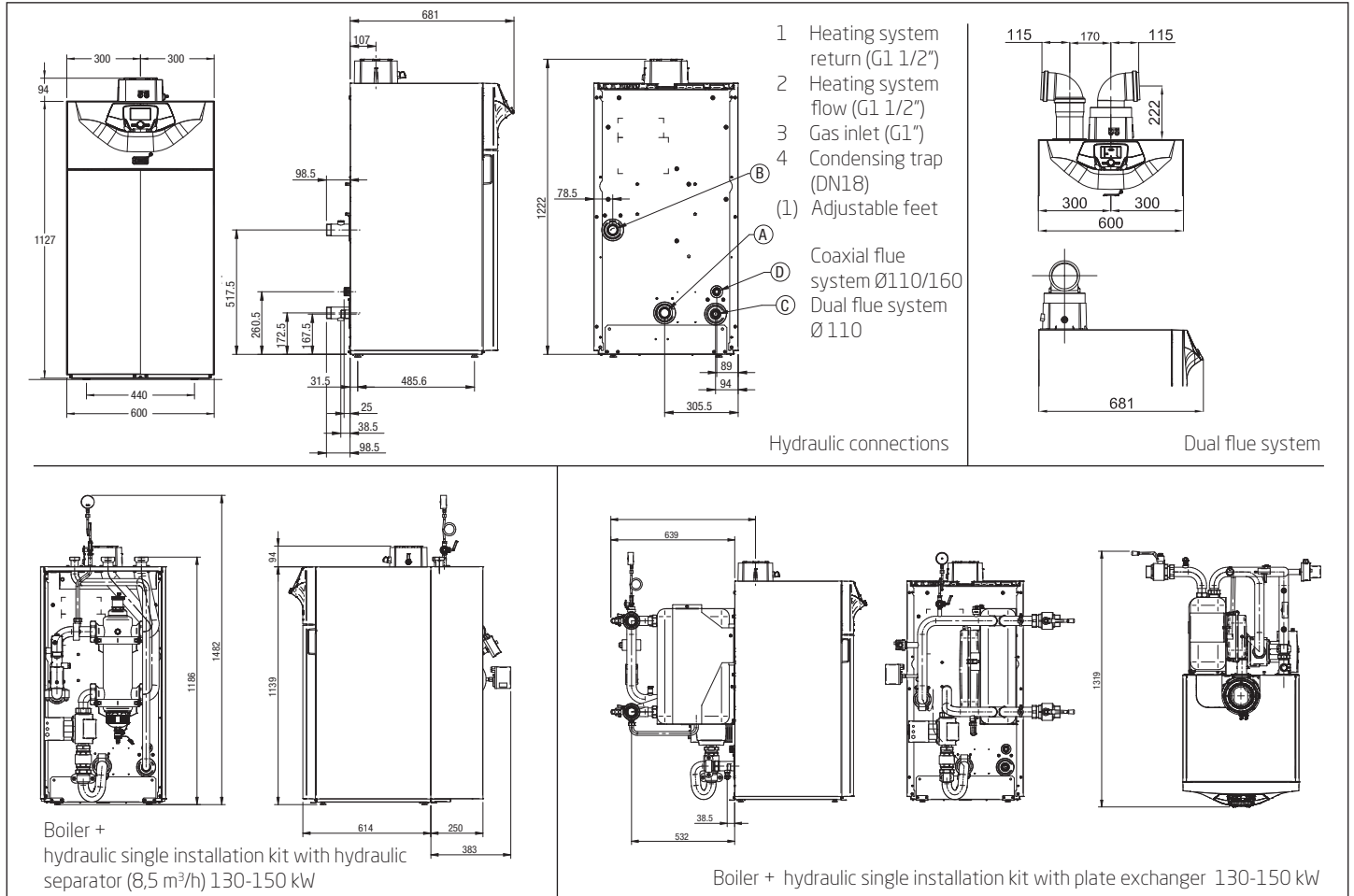
Power HT+ 1.110



- Hydraulic exchanger losses
- Pump head (in the hydraulic accessory)

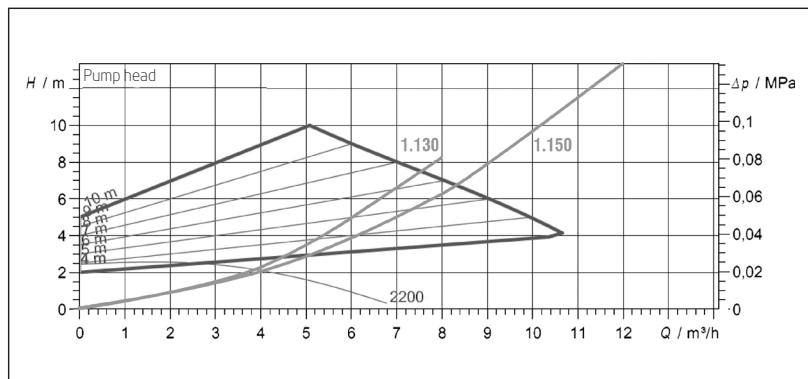
## Single installation

Power HT+ 1.130 - 1.150



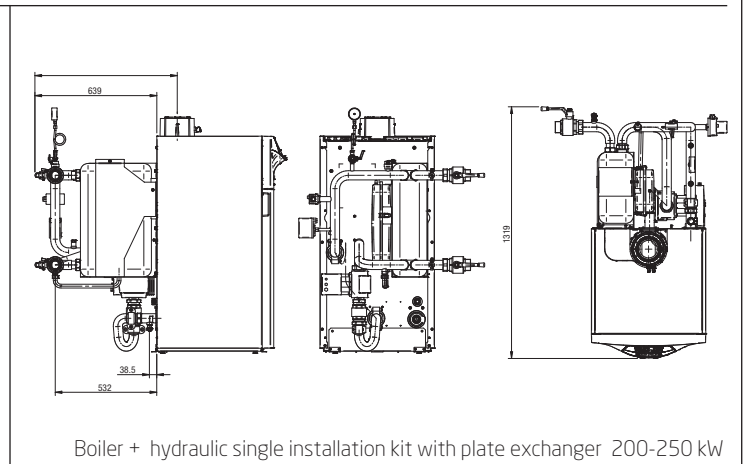
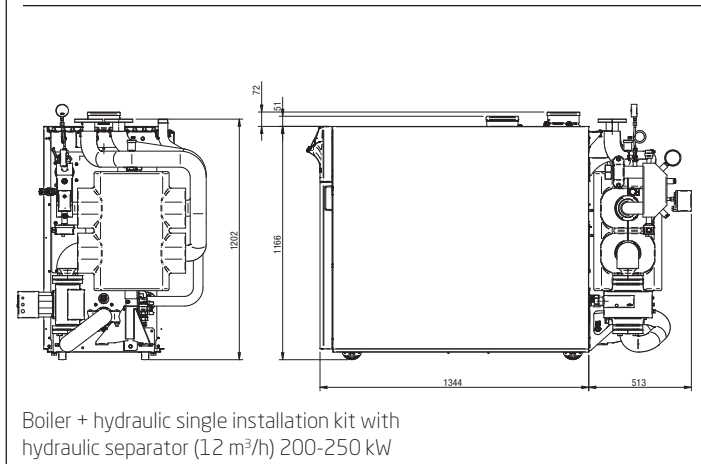
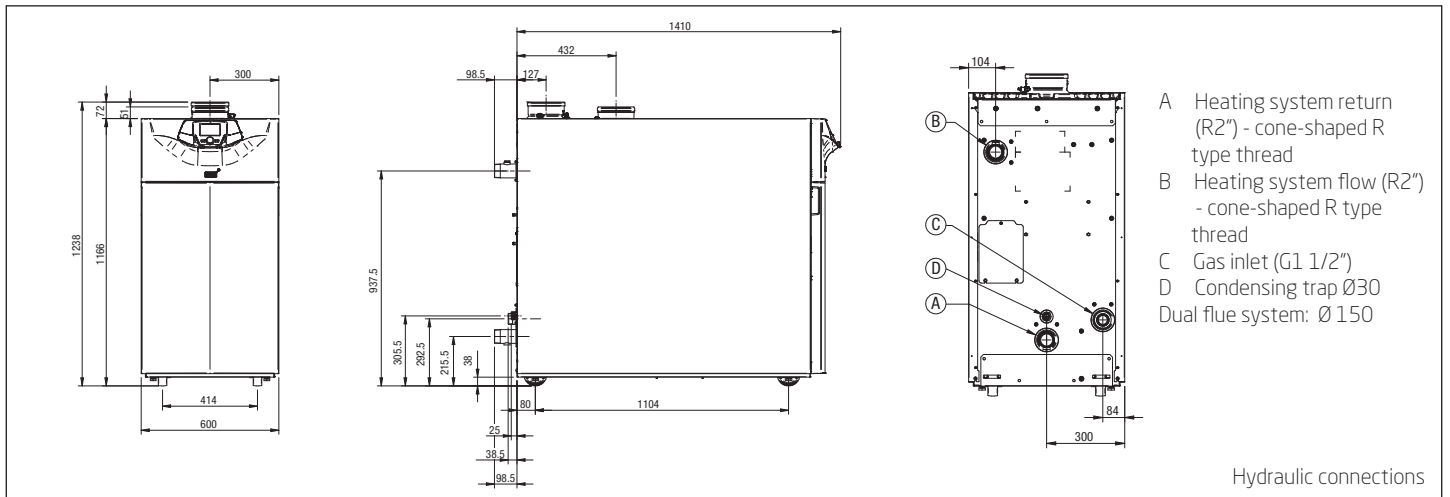
## Hydraulic exchanger losses and pump head curves

Power HT+ 1.130 - 1.150



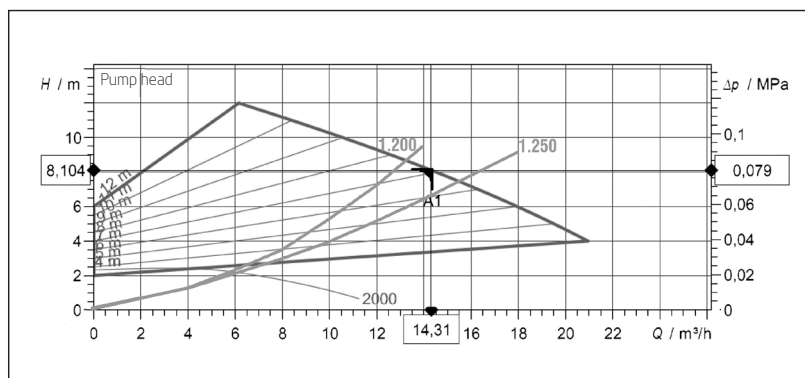
# Single installation

Power HT+ 1.200 - 1.250



## Hydraulic exchanger losses and pump head curves

Power HT+ 1.200 - 1.250



## Single installation electronics

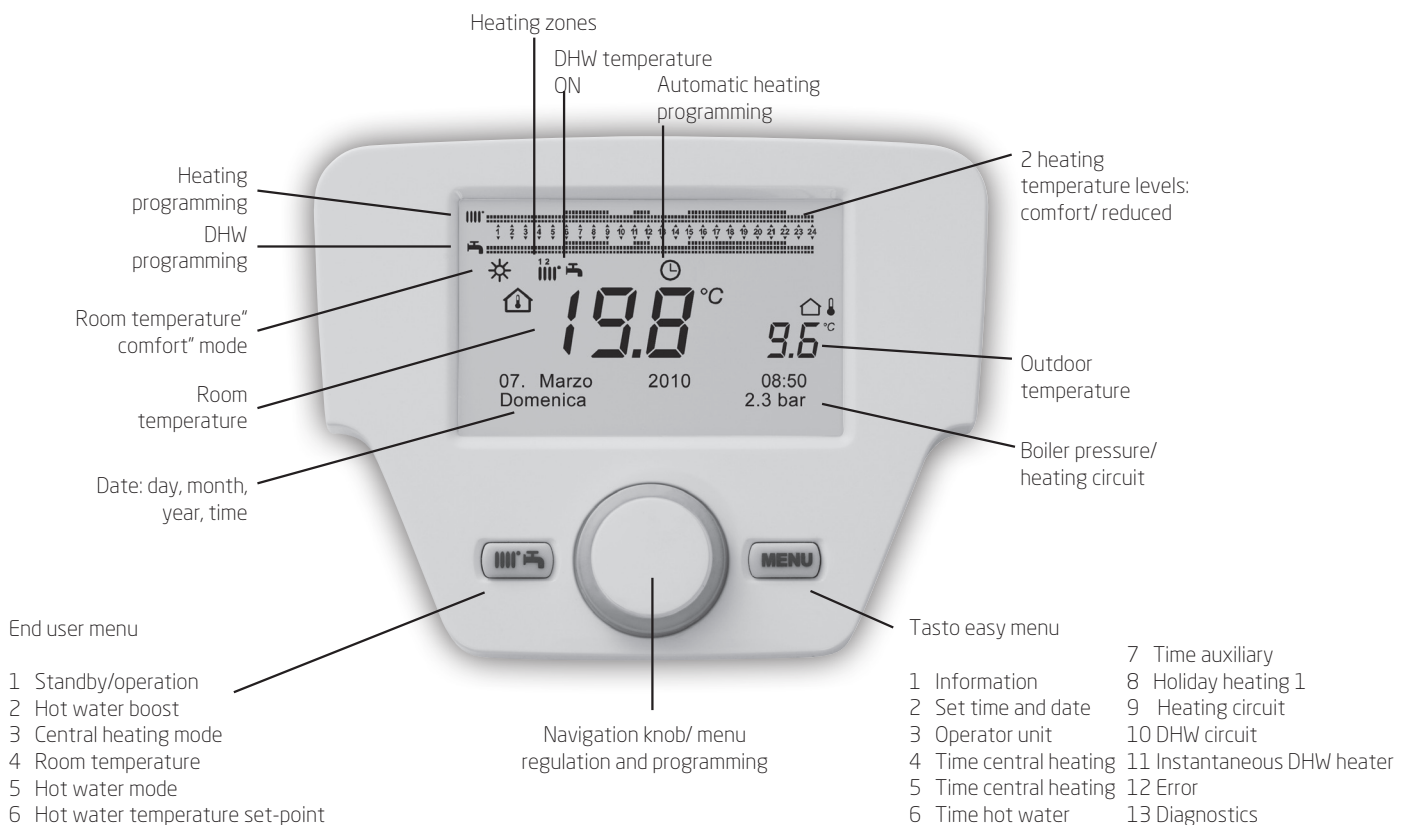
### Remote control THINK

All the control, management and communications software (meaning the whole intelligent part of a heating system) resides in the boiler PCB.

#### Main features:

- Double microprocessor: latest generation software for control of the generator, or also of a complete heating system
- Management of primary circuit pump modulation by PWM controller
- Daily heating programme and generation of hot sanitary water
- Electronic thermometer
- Automatic troubleshooting: signalling and description of possible anomalies
- Built-in climatic regulation (outdoor sensor available as optional)
- Automatic summer/winter changeover with outdoor sensor connected
- Setting of specific functions to control gas valve and combustion quality
- The remote control can be used as a room thermostat. It is possible to install up to 3 remote controls to manage 3 different zones
- Preset for installation in cascade with control software included in the PCB
- Preset for installation in mixing systems

The remote control THINK is supplied as standard



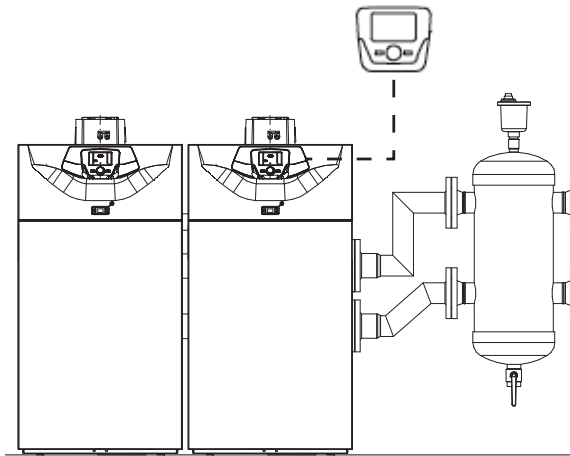
# Electronic accessories for installations

## Remote control THINK



Code 7102442 (wired)  
Code 7102443 (wireless)

The room unit is an accessory for controlling the temperature of the space to be heated. It is not only a modulating climate controller, capable of adjusting the delivery temperature from the boiler to obtain the desired room temperature with greatest efficiency: it also functions as a programmer, setting heating system parameters, including boilers in cascade and various low temperature zones.

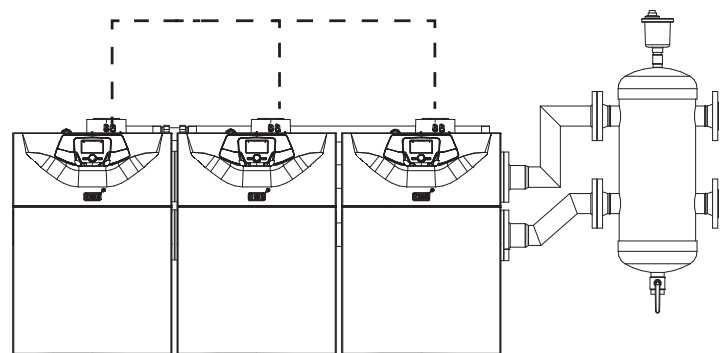


## Bus module (OCI 345)



Code 7104408

The THINK interface for boilers in cascade (BUS MODULE) is an electronic device that allows the bus communication (two wires) between boilers in a cascade system or between a single boiler (or the cascade boiler system) and a mixed zone controller THINK.



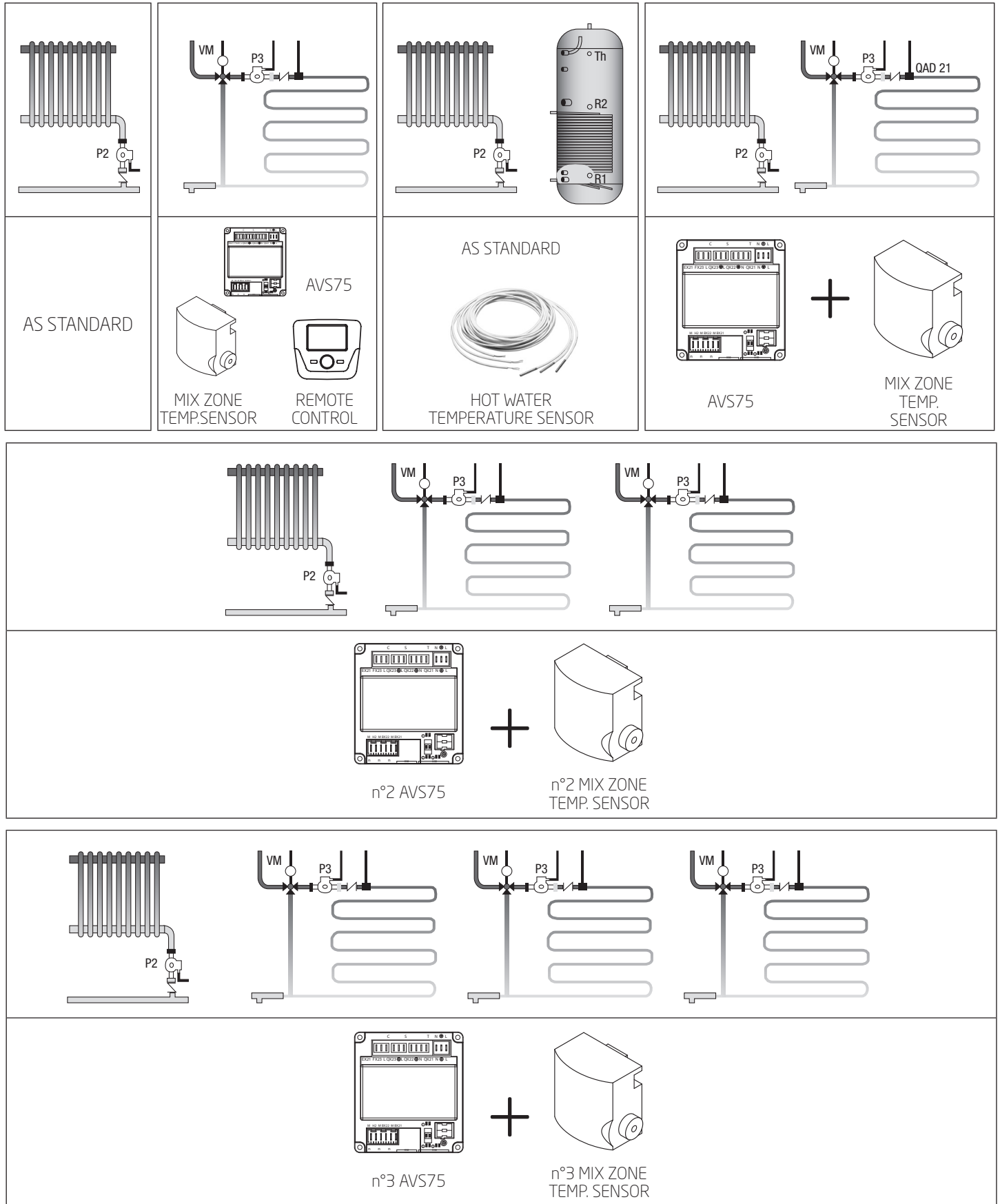
## Programming, setting and digital control

	Model	Description	Code
	Remote control THINK	The room unit is an accessory for controlling the temperature of the space to be heated. It is not only a modulating climate controller, capable of adjusting the delivery temperature from the boiler to obtain the desired room temperature with greatest efficiency: it also functions as a programmer, setting heating system parameters, including boilers in cascade and various low temperature zones.	7102442 (wired)  7102443 (wireless)
	Room thermostat THINK	Modulating room thermostat, version with wires (3led interface with support 7102340) or wireless (5led interface with support 7102441). If the control panel is installed in the boiler, it is necessary to buy the wireless aerial (see below). Dimensions: 105x98 mm	7101061 (wired)  7103044 (wireless)
	Room thermostat with timer THINK	Modulating room thermostat with timer, version with wires (3led interface with support 7102340) or wireless (5led interface with support 7102441) Advanced DHW managing. If the control panel is installed in the boiler, it is necessary to buy the wireless aerial (see below). Dimensions 120x98 mm	7102980 (wired)  7102979 (wireless)
	3LED interface with sup- port THINK	This accessory allows to install the wired control panel in a representative room. It can be used to control the room temperature and to set and control a heating circuit including a cascade installation and several low temperature zones.	7102340
	5LED interface with sup- port THINK	This accessory allows to install the wireless control panel in a representative room. It can be used to control the room temperature and to set and control a heating circuit including a cascade installation and several low temperature zones.	7102441
	Wireless aerial THINK	This accessory permits installation of the wireless outdoor sensor. If the 5 LED interface circuit with support is installed this accessory need not be installed.	7102343
	Outdoor sensor THINK (QAC34)	Outdoor sensor is a temperature sensor which communicates to the boiler the temperature outside the dwelling so that the generator adapts the flow temperature to the effective needs of heating the environment as set by the user. Wireless model to be ordered with the interface kit for remote control THINK - 5 leds (7102441) or with the wireless aerial (7102343).	7104873 (wired)  7103027 (wireless)

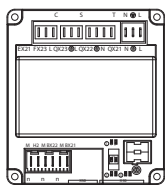
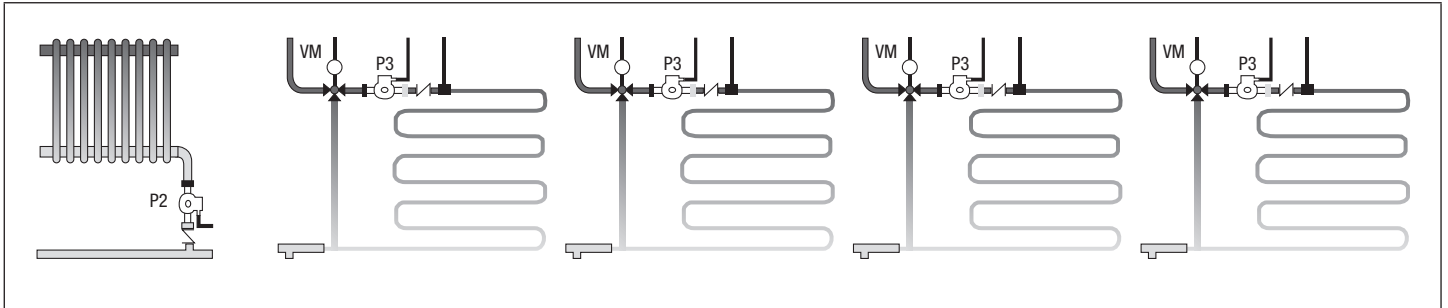
# Programming, setting and digital control

	Model	Description	Code
	Programmable internal module THINK (AVS75)	A heating system with max 16 boilers in cascade can be run, with separate storage for hot sanitary water where required. This accessory, connected to one of the boilers, can directly control the circuit components up to a max of 3 independent relay outlets, 2 inlet temperature sensors, 1 connector for limit thermostat in HV and one control inlet (for example TA). Up to 2 modules installed inside the boiler, for third mixing zone order Programmable external module THINK (AVS75) cod. 7105037	7213872
	Programmable external module THINK (AVS75)	Wall-hung installation, to be ordered for a third mixing zone.	7105037
	Interface kit for boilers in cascade THINK (OCI345)	Interface kit for boilers in cascade is an electronic device that permits communication via bus (two cables) between boilers connected in cascade or between one boiler (or the boilers in cascade) and a mixing zone controller.	7104408
	Heating controller for mixing zones THINK (RVS46)	Heat regulation control unit to control a mixing zone (usually low temperature). It can run a mixing valve, a pump and the flow sensor of the controlled zone. It can also exchange data with the boiler board by means of the connection bus. It includes a flow/return sensor THINK.	7105199
	Heating flow/return sensor THINK (QAD36)	This sensor is necessary to detect the flow temperature of the mixed zones in the heating plant. It have to be connected to the THINK AVS75 or RVS46.	KHG 71407891
	Hot water temperature sensor	This is the sensor that detects the DHW tank temperature.	KHG 71407681
	Sensor for solar controller	Sensor connected to the electronic platform THINK that detects the temperature of the solar collectors.	LNC 71000004
	BMS interface Kit	The BMS interface kit is an accessory composed by a web server and a gateway, able to discover all the registers of the boilers connected to the Siemens OZW Web Interface and automatically configure them for use in a system adopting the following protocols : BACnet@1MS/TP, BACnet/IP, Modbus TCP/IP or Modbus RTU. Use allowed with a maximum of four boilers in cascade.	7721218

## Configurations



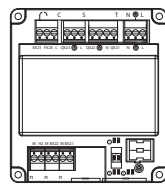




n°3 AVS75



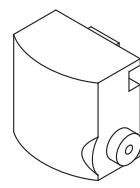
n°1 BUS  
MODULE



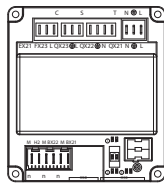
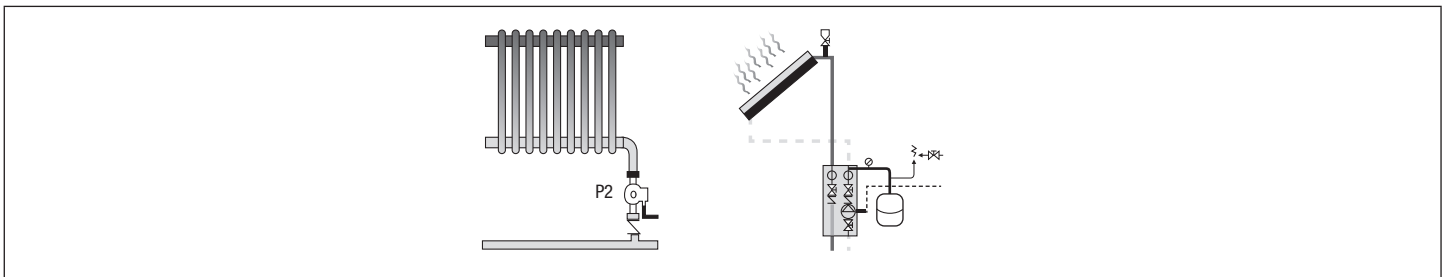
MIX ZONE CONTROL



REMOTE CONTROL



n°4 MIX ZONE  
TEMP. SENSOR



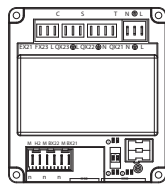
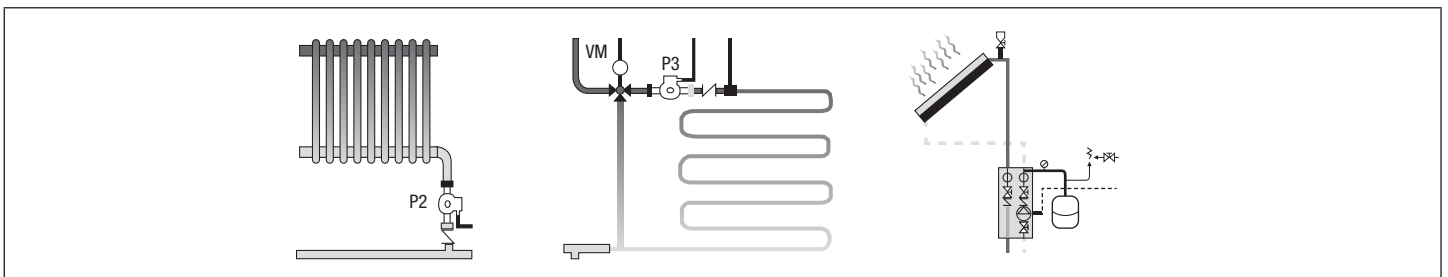
AVS75



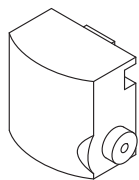
SOLAR TEMP. SENSOR



TANK TEMP. SENSOR



n°2 AVS75



MIX ZONE  
TEMP. SENSOR



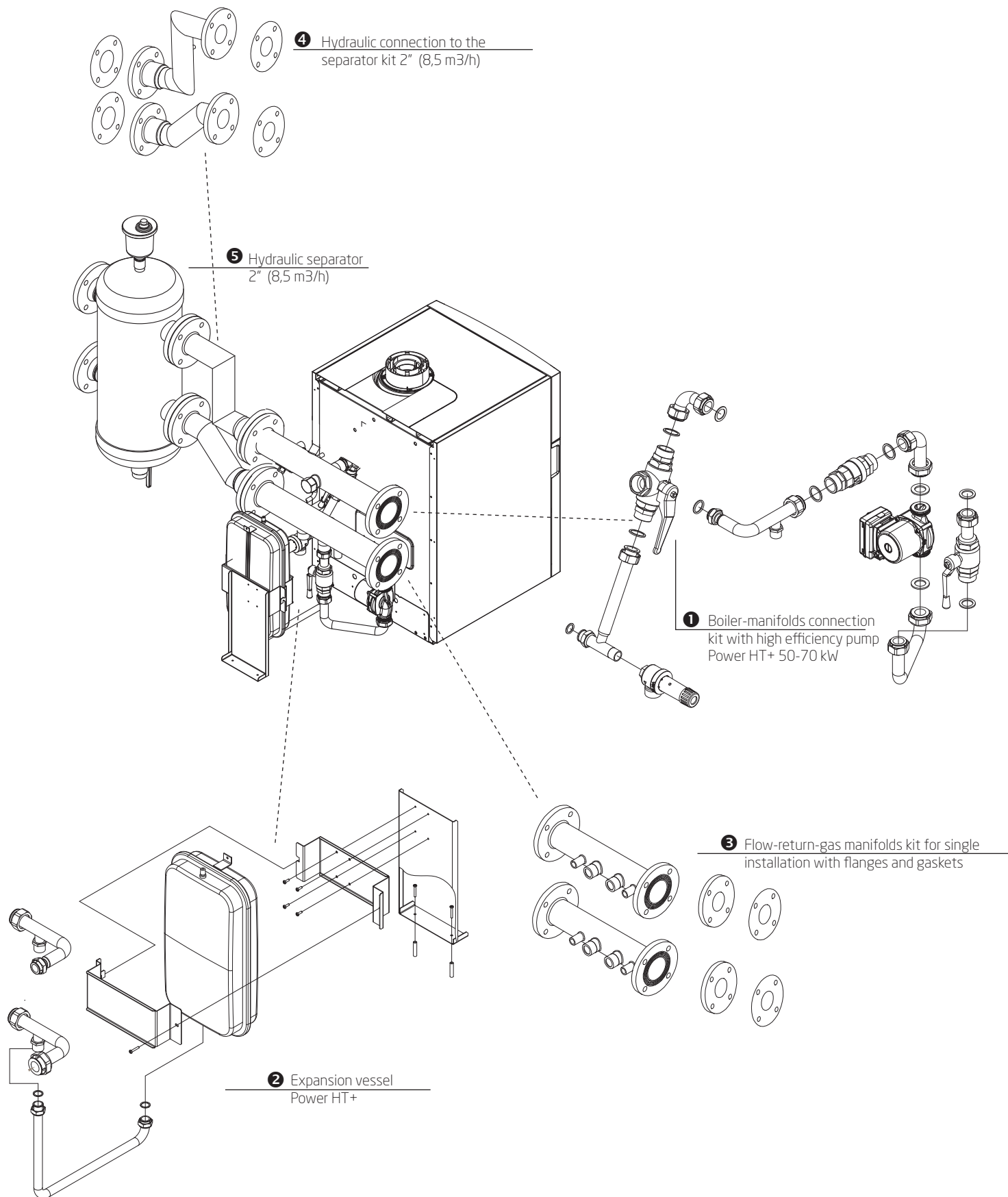
SENSOR FOR  
SOLAR CONTROLLER



HOT WATER  
TEMPERATURE SENSOR

## Single installation

Power HT+ 1.50 - 1.70

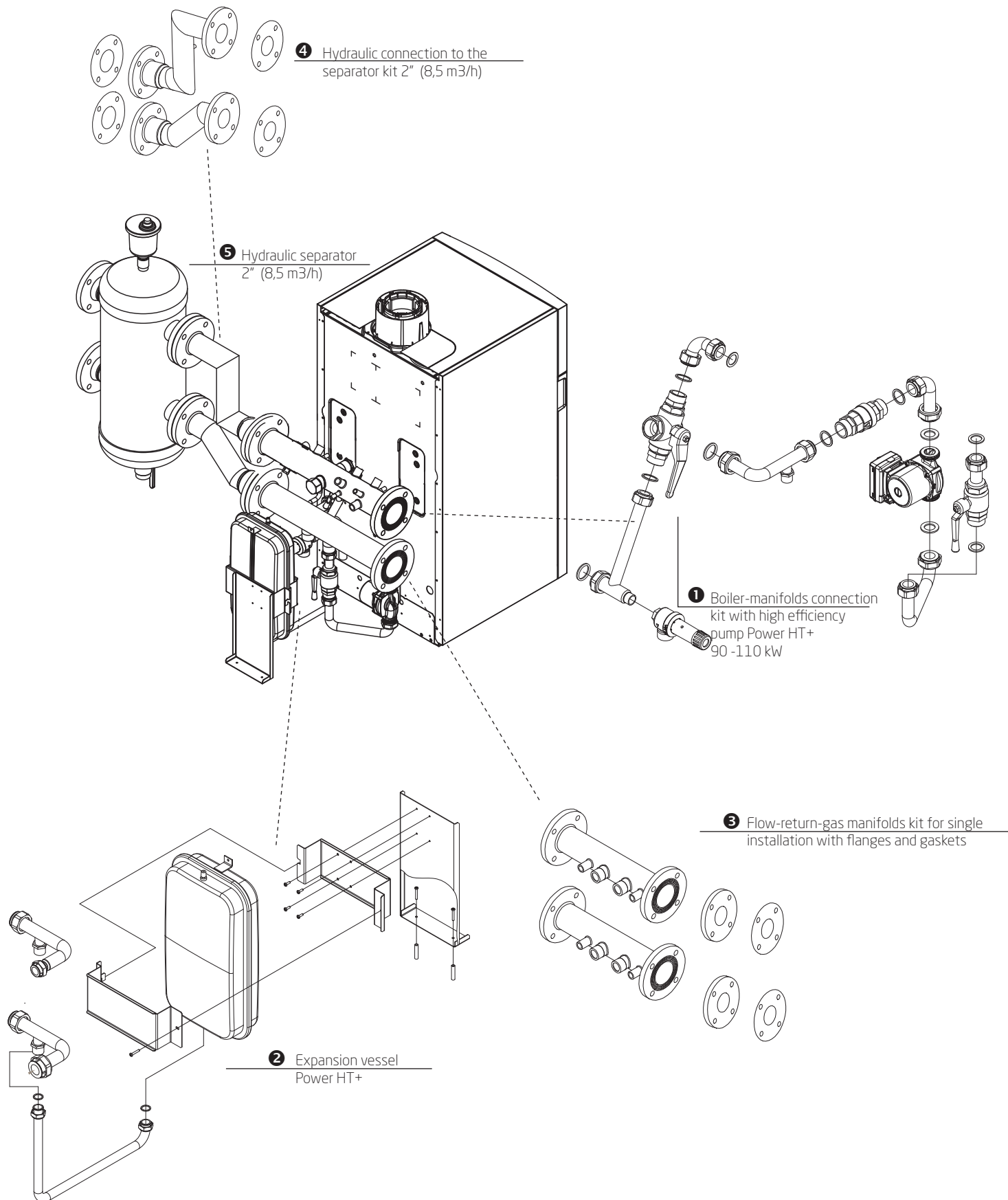


# Installation kit

<b>1</b> Boiler-manifolds connection kit with high efficiency pump Power HT+ 50-70 kW		
Models Power HT+	Code	Kit consisting of:
1.50-1.70	7213843	<ul style="list-style-type: none"> <li>• Gas manifold connection with valve G1"</li> <li>• 2 way shutoff valve on flow manifold G1¼"</li> <li>• 2 way shutoff valve on return manifold G1¼"</li> <li>• Non return valve G1¼"</li> <li>• Pump UPML 25/105</li> <li>• Cap G1¼"</li> <li>• Pipes and nipples</li> </ul>
<b>2</b> Expansion vessel Power HT+		
Models Power HT+	Code	Kit consisting of:
1.50-1.70	7213919	<ul style="list-style-type: none"> <li>• Boiler-expansion vessel connection pipe</li> <li>• Expansion vessel 10 lt</li> <li>• Expansion vessel support brackets</li> </ul>
<b>3</b> Flow-return-gas manifolds kit for single installation with flanges and gaskets		
Models Power HT+	Code	Kit consisting of:
1.50-1.70	7662214	<ul style="list-style-type: none"> <li>• Gas manifold 2"</li> <li>• Flow manifold 3" DN80 PN6</li> <li>• Return manifold 3" DN80 PN6</li> <li>• Flanges and gaskets</li> <li>• Insulation kit for single boiler flow/return manifolds</li> </ul>
<b>4</b> Hydraulic connection to the separator kit 2" (8,5 m³/h)		
Models Power HT+	Code	Kit consisting of:
1.50-1.70	7218613	<ul style="list-style-type: none"> <li>• Flow/return manifolds to the hydraulic separator, with insulation, gaskets and flanges</li> </ul>
<b>5</b> Hydraulic separator 2" (8,5 m³/h) - Code LSD 79000031		

## Single installation

Power HT+ 1.90 - 1.110



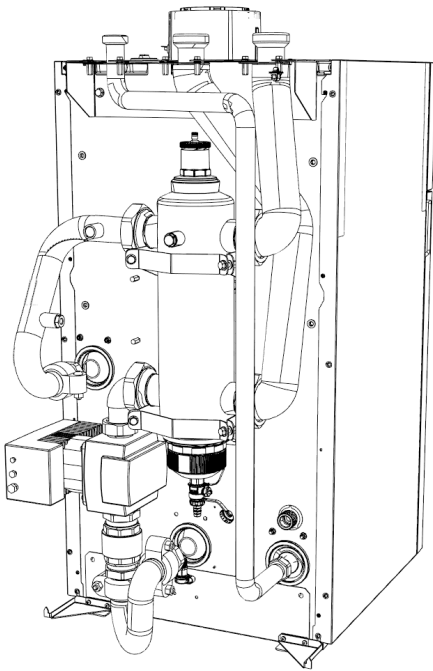
# Installation kit

<b>1</b> Boiler-manifolds connection kit with high efficiency pump Power HT+ 90-110 kW		
Models Power HT+	Code	Kit consisting of:
1.90-1.110	7213806	<ul style="list-style-type: none"> <li>• Gas manifold connection with valve G1"</li> <li>• 2 way shutoff valve on flow manifold G1¼"</li> <li>• 2 way shutoff valve on return manifold G1¼"</li> <li>• Non return valve G1¼"</li> <li>• Pump UPML 25/105</li> <li>• Cap G1¼"</li> <li>• Pipes and nipples</li> </ul>
<b>2</b> Expansion vessel Power HT+		
Models Power HT+	Code	Kit consisting of:
1.90-1.110	7213919	<ul style="list-style-type: none"> <li>• Boiler-expansion vessel connection pipe</li> <li>• Expansion vessel 10 lt</li> <li>• Expansion vessel support brackets</li> </ul>
<b>3</b> Flow-return-gas manifolds kit for single installation with flanges and gaskets		
Models Power HT+	Code	Kit consisting of:
1.90-1.110	7662214	<ul style="list-style-type: none"> <li>• Gas manifold 2"</li> <li>• Flow manifold 3" DN80 PN6</li> <li>• Return manifold 3" DN80 PN6</li> <li>• Flanges and gaskets</li> <li>• Insulation kit for single boiler flow/return manifolds</li> </ul>
<b>4</b> Hydraulic connection to the separator kit 2" (8,5 m³/h)		
Models Power HT+	Code	Kit consisting of:
1.90-1.110	7218613	<ul style="list-style-type: none"> <li>• Flow/return manifolds to the hydraulic separator, with insulation, gaskets and flanges</li> </ul>
<b>5</b> Hydraulic separator 2" (8,5 m³/h) - Code LSD 79000031		

## Single installation

Power HT+ 1.130 - 1.150

with hydraulic separator



### Single boiler installation kit

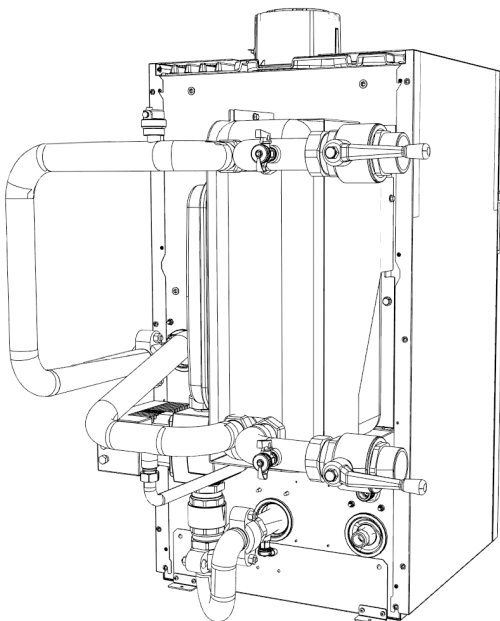
with hydraulic separator (8,5 m<sup>3</sup>/h) 130-150 kW

The kit includes:

- Galvanized iron hydraulic pipes diameter G1½" with its Victaulic flanges for internal connections
- Non return valve G2"
- 8,5 m<sup>3</sup>/h hydraulic separator with threaded connections G2"
- Pump WILLO STRATOS 30/1-12 PN10
- Expansion module AGU 2.511 with its cables and connectors
- Aesthetic painted metal covers and crossbar with brackets to be hang over the sides and the upper cover of the boiler

Code 7663934

with plate exchanger



### Single boiler installation kit

with plate exchanger 130-150 kW

The kit includes:

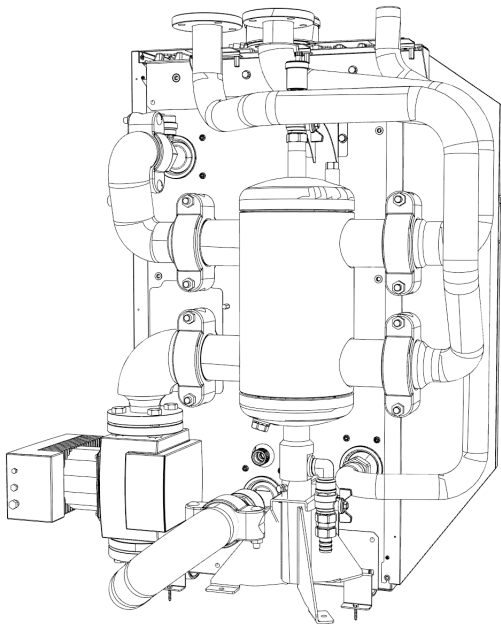
- Galvanized iron hydraulic pipes diameter G1½" with its Victaulic flanges for internal connections
- Treaded flow/return manual drain valve G½" (inlet) and G¾" (outlet)
- Non return valve G2"
- 2 way shutoff valve G2" (on flow and return mainfolds)
- Brazed plate exchanger - 140 plates - with rigid polyurethane foam insulation
- 10 lt expansion vassel with an operating pressure of 4 bar
- Flow sensor
- Pump WILLO STRATOS 30/1-12 PN10
- Expansion module AGU 2.511 with its cables and connectors

Code 7680549

# Single installation

Power HT+ 1.200 - 1.250

with hydraulic separator



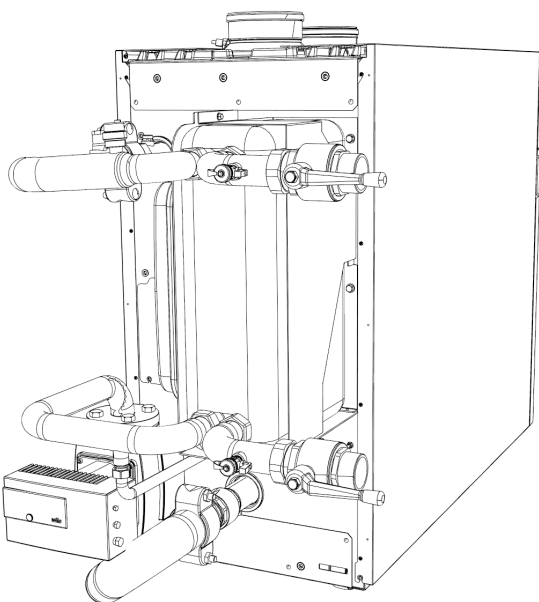
## Single boiler installation kit with hydraulic separator 200-250 kW

The kit includes:

- Galvanized iron hydraulic pipes diameter G2" with its Victaulic flanges for internal connections
- Non return valve G2"
- 12 m<sup>3</sup>/h hydraulic separator with insulation and floor supports
- Pump WILLO STRATOS 40/1-12 PN6/10
- Expansion vassel AGU 2.511 with its cables and connectors
- crossbar with brackets to be hang over the upper cover of the boiler
- Flanged flow/return connections DN50 PN6 and gas connection G1½"

Code 7672216

with plate exchanger



## Single boiler installation kit with plate exchanger 200-250 kW









The kit includes:

- Galvanized iron hydraulic pipes diameter G1½" with its Victaulic flanges for internal connections
- Treaded flow/return manual drain valve G½" (inlet) and G¾" (outlet)
- Non return valve G2"
- 2 way shutoff valve G2" (on flow and return mainfolds)
- Brazed plate exchanger - 140 plates - with rigid polyurethane foam insulation
- 10 lt expansion vassel with an operating pressure of 4 bar
- Flow sensor
- Pump WILLO STRATOS 40/1-12 PN6/10
- Expansion module AGU 2.511 with its cables and connectors

Code 7680558

## Coaxial flue system accessories Ø80/125


















Power HT+ 1.50-1.70

Picture	Description	Code
	PP coaxial flue system Ø 80/125 1040 mm it includes external sealing collar	KHG 71408891
	PP coaxial pipe extension Ø 80 L=1000 mm	KHG 71408851
	PP coaxial pipe extension Ø 80 L=500 mm	KHG 71408861
	PP 90° coaxial bend Ø 80/125	KHG 71408871
	PP 45° coaxial bend Ø 80/125	KHG 71408881
	Coaxial vertical chimney terminal Ø80/125 1150 mm	KHG 71409351
	Flat roof tile Ø 125 to be used with a vertical chimney terminal	KHG 71409361
	Pitched roof tile Ø 125 to be used with a vertical chimney terminal; it is adjustable from 15° to 45°	KHG 71409371









# Dual flue system accessories Ø80

Power HT+ 1.50-1.70

Picture	Description	Code
	PP dual flue system Ø 80 it includes: flue reduction, intake connection	KHG 71408901
	PP pipe extension Ø 80 L=1000 mm	KHG 71405941
	PP pipe extension Ø 80 L=500 mm	KHG 71405991
	PP pipe extension Ø 80 L=250 mm	7107183
	PP 90° bend Ø 80	KHG 71405921
	PP 45° bend Ø 80	KHG 71405931
	Pipe Ø 80 centring kit (pack of 5)	KHG 71403741
	Clamp centring kit Ø 80	KHG 71410611
	Pipe Ø 80 supporting bracket (pack of 5)	KHG 71403731
	Internal sealing collar Ø 80	KHG 71401851
	External sealing collar Ø 80	KHG 71401841
	Coaxial vertical chimney terminal 80/125	KHG 71409351
	Dual flue pipes adapter for coaxial chimney	KHG 71409381
	Flue terminal Ø 80	LSD 79000015
	Dual flue terminal Ø 80	KHG 71401041
	Flat roof tile Ø 125 to be used with a vertical chimney terminal	KHG 71409361
	Pitched roof tile Ø 125 to be used with a vertical chimney terminal; it is adjustable from 15° to 45°	KHG 71409371









## Flexible ducting system accessories

Power HT+ 1.50-1.70

Picture	Description	Code
	PP flexible pipe Ø 80 L= 1,5 m	KHG 71410571
	PP flexible pipe Ø 80 L= 20 m	KHG 71410581
	PP tee joint Ø 80 with supporting bracket and condensate drainings	KHG 71410591
	PP 90° bend Ø 80 with supporting bracket	KHG 71410601
	Flexible centring kit Ø 80 (pack of 3)	KHG 71410621
	Triple lips gaskets kit Ø 80 (pack of 5)	KHG 71411121







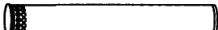



## Coaxial flue system accessories Ø110/160

Power HT+ 1.90-1.150




Picture	Description	Code
	PP coaxial pipe extension Ø 80 L=1000 mm	KUG 71413381
	PP coaxial pipe extension Ø 80 L=500 mm	KUG 71413371
	PP 90° coaxial bend Ø 80/125	KUG 71413361
	PP 45° coaxial bend Ø 80/125	KUG 71413351
	Coaxial vertical chimney terminal Ø110/160 1150 mm	KUG 71413341
	Coaxial horizontal chimney terminal Ø110/160 1000 mm	KUG 71413331
	Flat roof tile Ø 160 to be used with a vertical chimney terminal	KHG 71410481
	Pitched roof tile Ø 160 to be used with a vertical chimney terminal; it is adjustable from 15° to 45°	KHG 71410491

# Dual flue system accessories Ø110

Power HT+ 1.90-1.150

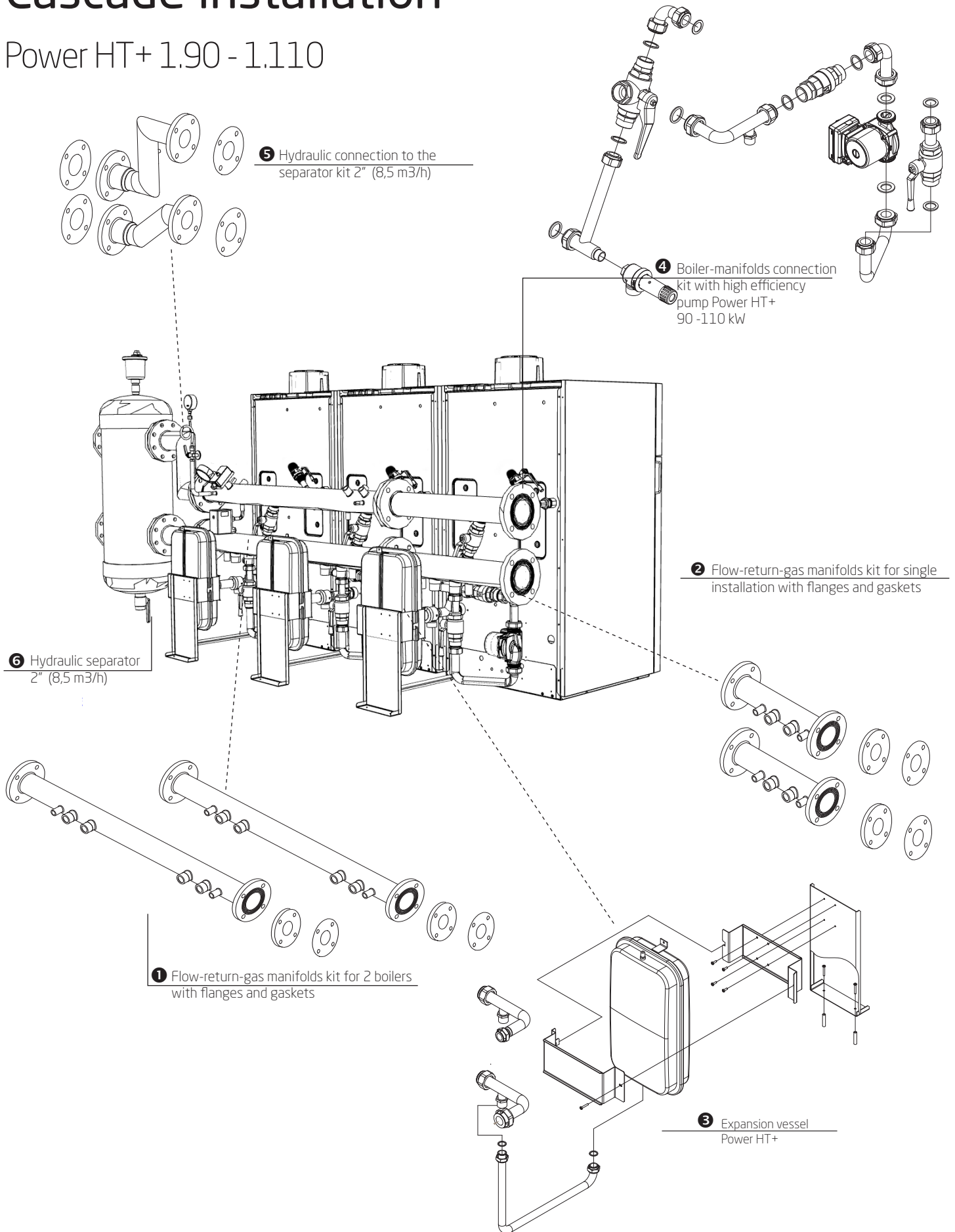
Picture	Description	Code
	PP dual flue kit Ø 110/110	7106314
	PP pipe extension Ø 110 L=1000 mm	KUG 71413321
	PP pipe extension Ø 110 L=500 mm	KUG 71413311
	PP pipe extension Ø 110 L=250mm	7107185
	PP 90° bend Ø 110	KUG 71413301
	PP 45° bend Ø 110	KUG 71413291
	PP vertical chimney terminal Ø 110 770 mm	KUG 71413281
	PP horizontal chimney terminal Ø 110 770 mm	KUG 71413271
	Flat roof tile to be used with a vertical chimney terminal Ø 110/160	KHG 71410481
	Pitched roof tile to be used with a vertical chimney terminal 110/160; it is adjustable from 15° to 45°	KHG 71410491

Power HT+ 1.200-1.250

Picture	Description	Code
	Flue adapter kit Ø 150/160	A7734500
	PP 90° bend Ø 160	KHW 71409781
	PP extension Ø 160 L=1000 mm	KHW 71409771

## Cascade installation

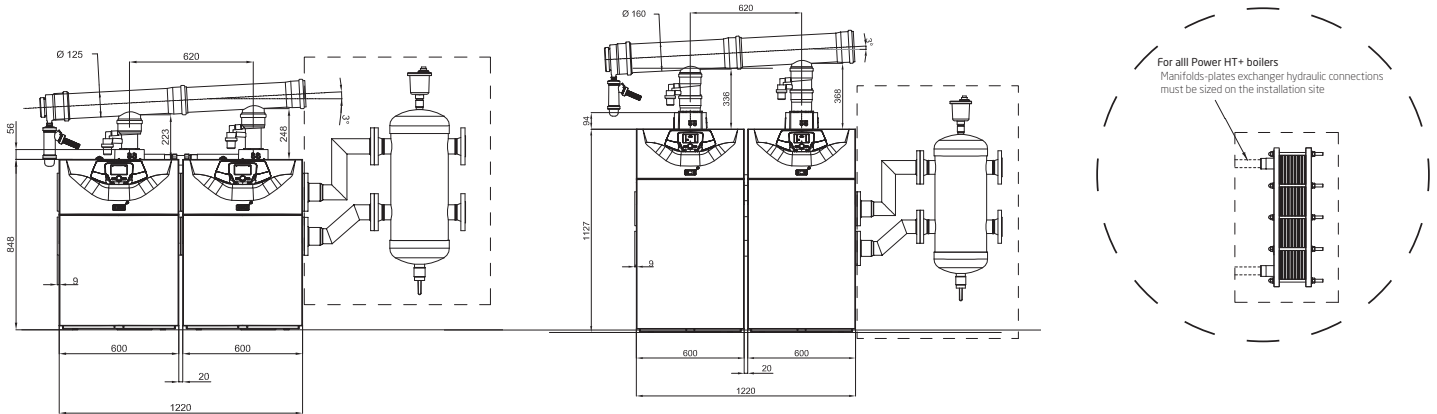
Power HT+ 1.90 - 1.110



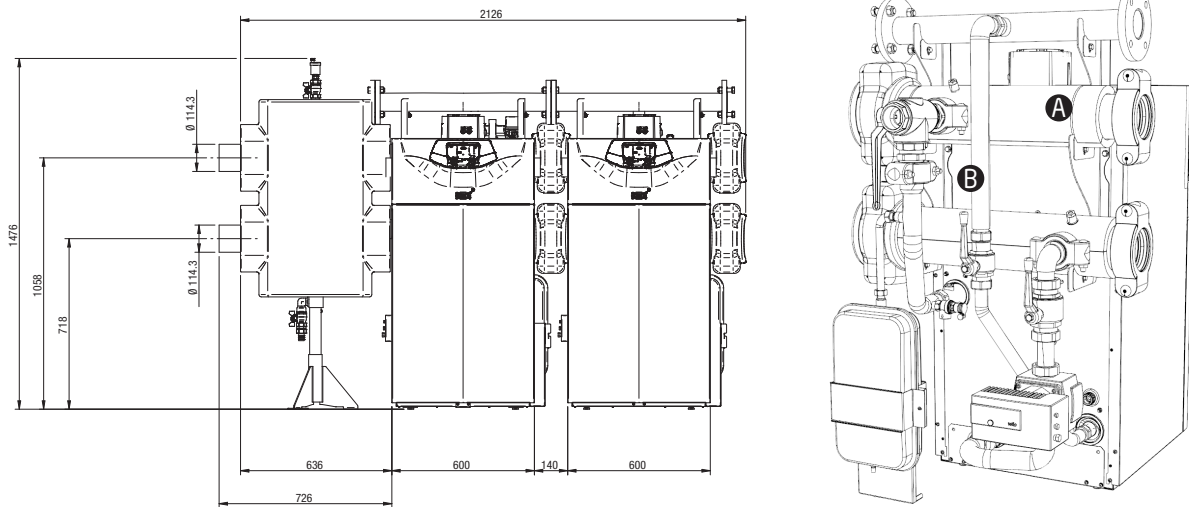
# 2 boilers cascade installation dimensions

Power HT+ 1.50 -1.70\*

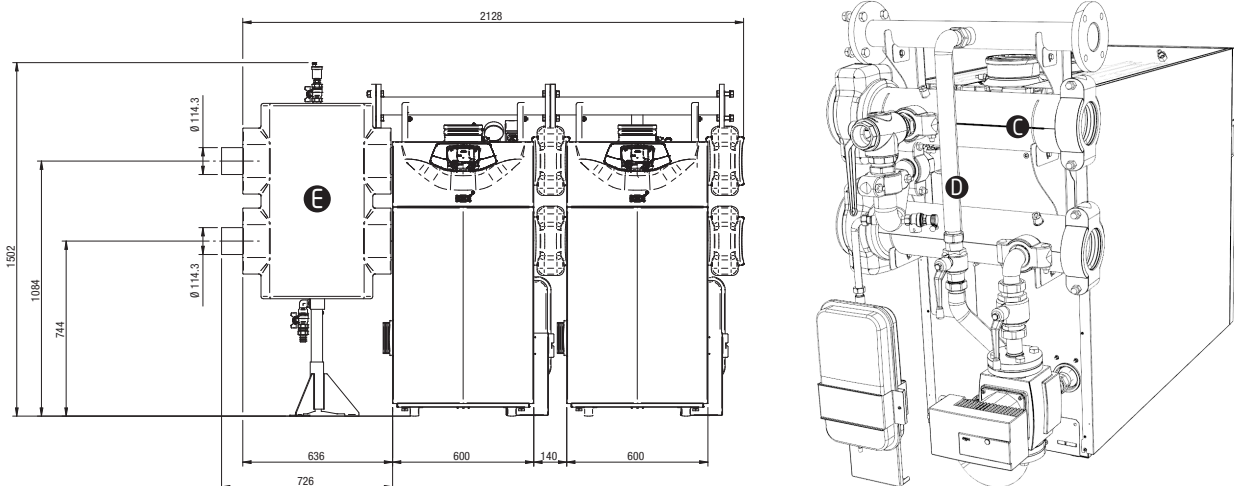
Power HT+ 1.90 -1.110\*



Power HT+ 1.130 -1.150\*\*



Power HT+ 1.200 -1.250\*\*



\*Power HT+ 50-110 kW boilers: flanged flow-return hydraulic manifolds, diameter 3" with flange DN80 PN6 - 2" gas manifold, threaded inter

\*\*Power HT+ 130-250 kW boilers: flanged flow-return hydraulic manifolds, diameter Ø 114,3 with flange VICTAULIC - 3" gas manifold, with flange DN65 PN10

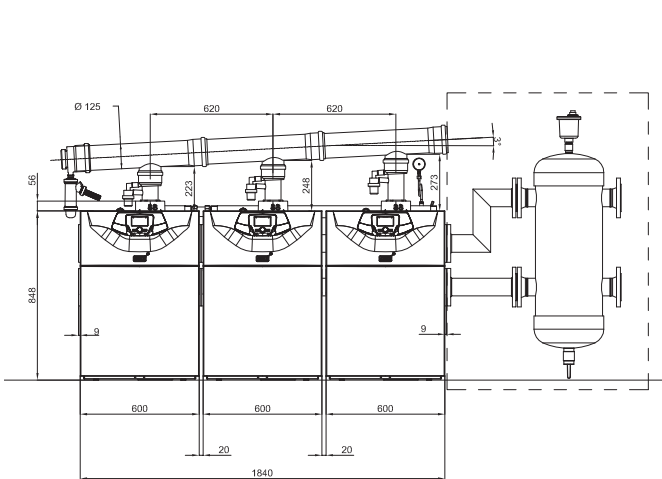
## Accessories, 2 boilers in cascade

	Code	100 kW	140 kW	180 kW	220 kW	260 kW	300 kW	400 kW	500 kW	
BOILERS	Power HT+ 1.50	7612418	2							
	Power HT+ 1.70	7612419		2						
	Power HT+ 1.90	7612420			2					
	Power HT+ 1.110	7612421				2				
	Power HT+ 1.130	7689649					2			
	Power HT+ 1.150	7689651						2		
	Power HT+ 1.200	7689652							2	
	Power HT+ 1.250	7689653								2
THERMOREGULATION	Outdoor sensor THINK (QAC 34)	7104873	1	1	1	1	1	1	1	
	Interface kit for boilers in cascade THINK (BUS MODULE OCI 345)	7104408	2	2	2	2	2	2	2	
	Hot water temperature sensor*	KHG 71407681	1	1	1	1	1	1	1	
	Programmable internal module THINK (AVS75) - max 2 mixing zones	7213872	max 2	max 2	max 2	max 2	max 2	max 2	max 2	
	Programmable external module THINK (AVS75) - third mixing zone	7105037	max 1	max 1	max 1	max 1	max 1	max 1	max 1	
HYDRAULIC ACCESSORIES	Flow-return-gas manifolds, insulation, flanges and gaskets kit for 2 boilers 50-110 kW**	① 7662216	1	1	1	1				
	Expansion vessel kit	③ 7213919	2	2	2	2				
	Boiler-manifolds connection kit 50-70 kW with high efficiency pump	④ 7213843	2	2						
	Boiler-manifolds connection kit 90-110 kW with high efficiency pump	④ 7213806			2	2				
	Hydraulic connection kit to the separator 8,5 m³/h G2"	⑤ 7218613	1	1						
	Hydraulic separator 8,5 m³/h G2"	⑥ LSD 79000031	1	1						
	Hydraulic connection kit to the separator 18 m³/h DN65	⑤ 7218614			1	1				
	Hydraulic separator 18 m³/h DN65	⑥ LSD 79000032			1	1				
	Collector hydraulic+gas kit 1boiler	Ⓐ 7694125					2	2		
	Kit cascade piping 150kW+gas***	Ⓑ 7673764					2	2		
	Collector hydraulic+gas kit 1boiler	Ⓒ 7694125							2	2
	VICTAULIC welding sleeve plug with flange	7696105					1	1	1	1
	Kit cascade piping 250kW+gas****	Ⓓ 7694143							2	2
	Kit hydraulic separator 30m³/h	Ⓔ 7694133					1	1	1	1
FLUE ACCESSORIES	Shutter kit Ø110/80 with condensing trap	7106820	2	2						
	Shutter kit Ø110/110 with condensing trap	7106821			2	2				
	Flue pipe kit for 2 boilers Ø125/110	7107168	1	1						
	Flue pipe kit for 2 boilers Ø160/110	7107152			1	1				
	PP Pipe extension Ø110 L=250mm	7107185			2	2				
	Flue adapter kit Ø150/160	A7734500							2	2

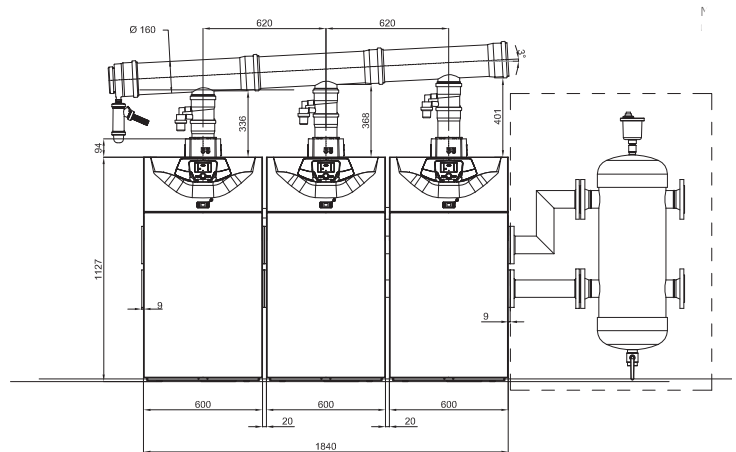
\* In case of DHW tank installation - \*\* This accessory is available also without gas line (cod. 7662220) - \*\*\* This accessory is available also without gas line (cod. 7694142)\*\*\*\* This accessory is available also without gas line (cod. 7674803)

# 3 boilers cascade installation dimensions

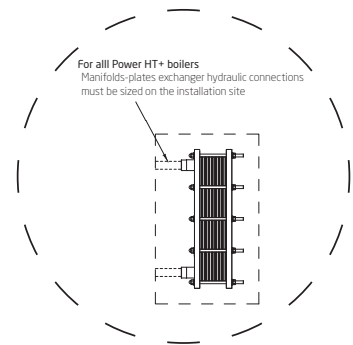
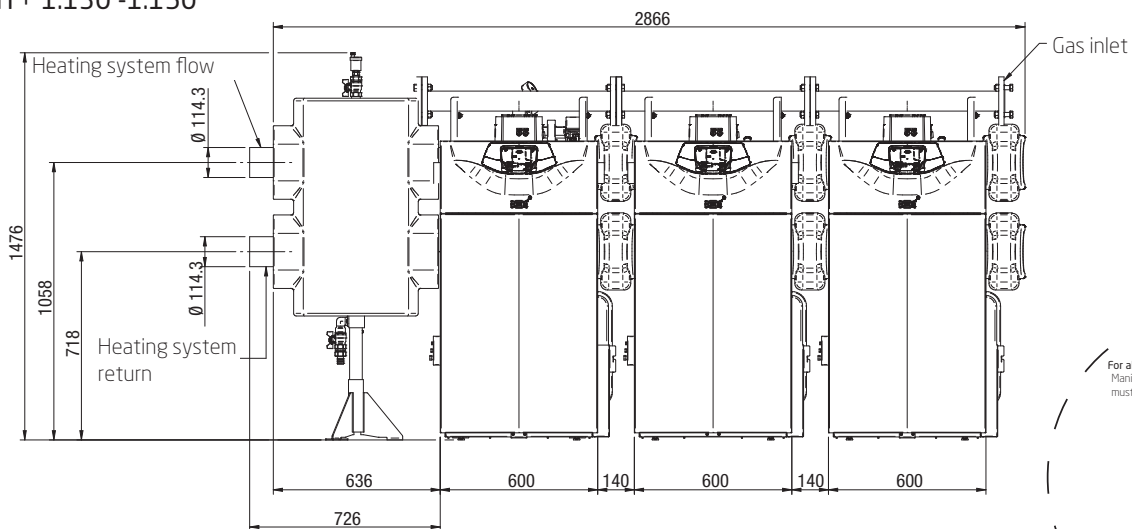
Power HT+ 1.50 -1.70\*



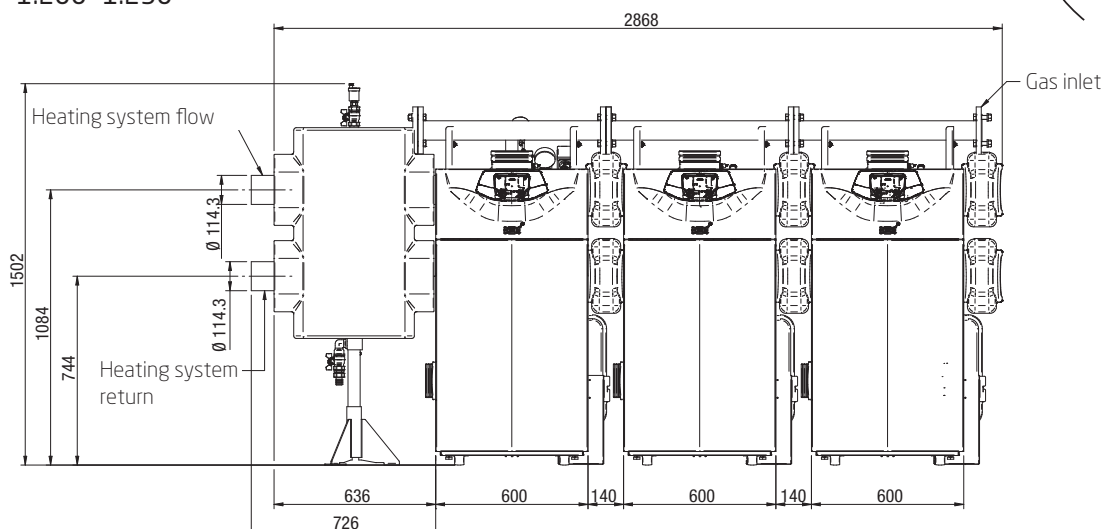
Power HT+ 1.90 -1.110\*



Power HT+ 1.130 -1.150\*\*



Power HT+ 1.200 -1.250\*\*



\*Power HT+ 50-110 kW boilers: flanged flow-return hydraulic manifolds, diameter 3" with flange DN80 PN6 - 2" gas manifold, threaded internally

\*\*Power HT+ 130-250 kW boilers: flanged flow-return hydraulic manifolds, diameter Ø 114,3 with flange VICTAULIC - 3" gas manifold, with flange DN65 PN10

## Accessories, 3 boilers in cascade

	Code	150 kW	210 kW	270 kW	330 kW	390 kW	450 kW	600 kW	750 kW	
BOILERS	Power HT+ 1.50	7612418	3							
	Power HT+ 1.70	7612419		3						
	Power HT+ 1.90	7612420			3					
	Power HT+ 1.110	7612421				3				
	Power HT+ 1.130	7689649					3			
	Power HT+ 1.150	7689651						3		
	Power HT+ 1.200	7689652							3	
	Power HT+ 1.250	7689653								3
THERMREGULATION	Outdoor sensor THINK (QAC 34)	7104873	1w	1	1	1	1	1	1	1
	Interface kit for boilers in cascade THINK (BUS MODULE OCI 345)	7104408	3	3	3	3	3	3	3	3
	Hot water temperature sensor*	KHG 71407681	1	1	1	1	1	1	1	1
	Programmable internal module THINK (AVS75) - max 2 mixing zones	7213872	max 2	max 2	max 2	max 2	max 2	max 2	max 2	max 2
	Programmable external module THINK (AVS75) - third mixing zone	7105037	max 1	max 1	max 1	max 1	max 1	max 1	max 1	max 1
HYDRAULIC ACCESSORIES	Flow-return-gas manifolds, insulation, flanges and gaskets kit for 2 boilers 50-110 kW** ①	7662216	1	1	1	1				
	Flow-return-gas manifolds, insulation, flanges and gaskets kit for third boiler 50-110 kW*** ②	7662214	1	1	1	1				
	Expansion vessel kit ③	7213919	2	2	2	2				
	Boiler-manifolds connection kit 50-70 kW with high efficiency pump ④	7213843	3	3						
	Boiler-manifolds connection kit 90-110 kW with high efficiency pump ④	7213806			3	3				
	Hydraulic connection kit to the separator 18 m³/h DN65 ⑤	7218614	1	1						
	Hydraulic separator 18 m³/h DN65 ⑥	LSD 79000032	1	1						
	Hydraulic connection kit to the separator 28 m³/h DN80 ⑤	7218615			1	1				
	Hydraulic separator 28 m³/h DN80 ⑥	LSD 79000033			1	1				
	Collector hydraulic+gas kit 1boiler ①	7694125					3	3		
	Kit cascade piping 150kW+gas**** ②	7673764					3	3		
	Collector hydraulic+gas kit 1boiler ③	7694125							3	3
	VICTAULIC welding sleeve plug with flange	7696105					1	1	1	1
	Kit cascade piping 250kW+gas***** ④	7694143							3	3
	Kit hydraulic separator 30m³/h ⑤	7694133					1	1	1	1
FLUE ACCESSORIES	Shutter kit Ø110/80 with condensing trap	7106820	3	3						
	Shutter kit Ø110/110 with condensing trap	7106821			3	3				
	Flue pipe kit for 2 boilers Ø125/110	7107168	1							
	Flue pipe kit for 2 boilers Ø160/110	7107152		1	1					
	Flue pipe kit for the third boiler Ø125/110	7107177	1							
	Flue pipe kit for the third boiler Ø160/110	7107163		1	1					
	PP Pipe extension Ø110 L=250mm	7107185	1	3	3	3				
	Flue pipe kit for 2 boilers Ø200	7107156				1				
	Flue pipe kit for the third boiler Ø200	7107164				1				
	Flue adapter kit Ø150/160	A7734500							3	3







\*In case of DHW tank installation -\*\*This accessory is available also without gas line (cod. 7662220) -\*\*\*This accessory is available also without gas line (cod. 7662218)

\*\*\*\* This accessory is available also without gas line (cod. 7694142) - \*\*\*\*\* This accessory is available also without gas line (cod. 7674803)




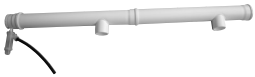









# Flue accessories

Cascade installation Power HT+ 1.50-1.70

Picture	Description	Code
	PP flue pipe kit for two boilers Ø 125	7107168
	PP flue pipe kit Ø 125 for the third boiler	7107177
	PP 90° bend Ø 125	KHG 71409441
	PP 45° bend Ø 125 (pack of 2)	KHG 71409451
	PP extension Ø 125 L=1000 mm	KHG 71409461
	PP shutter kit Ø 110/80 with condensing trap	7106820

## Flue accessories

Cascade installation Power HT+ 1.90-1.150

Picture	Description	Code
	PP flue pipe kit Ø 160 for two boilers	7107152
	PP flue pipe kit Ø 200 for two boilers	7107156
	PP flue pipe kit Ø 160 for the third boiler	7107163
	PP flue pipe kit Ø 200 for the third boiler	7107164
	PP 90° bend Ø 160	KHW 71409781
	PP 90° bend Ø 200	KHW 71409821
	PP extension Ø 160 L=1000 mm	KHW 71409771
	PP extension Ø 110 L=250 mm	7107185
	PP extension Ø 200 L=1000 mm	KHW 71409811
	Shutter kit Ø 110/110 with condensing trap (for 90-110 kW models)	7106821
	Shutter kit Ø 110/110 with condensing trap (for 130-150 kW models)	7700811

# Flue system - single installation

The boiler can be easily installed thanks to the flue accessories provided by BAXI, which offer a great flexibility of use. The product is certified for the following flue types:

B23 – C13 – C33 – C43 – C53 – C63 – C83

**C63** The maximum pressure drop in the pipes  $\Delta P$  not provided by BAXI must not exceed the values given in the table below.

Flue type	C63	
	Fan pressure drop (*) [Pa]	Flue pipe $\varnothing$ [mm]
Power HT + 1.50	270	80
Power HT + 1.70	270	80
Power HT + 1.90	320	110
Power HT +1.110	370	110
Power HT +1.130	170	110
Power HT +1.150	280	110
Power HT +1.200	230	150**
Power HT +1.250	230	150**

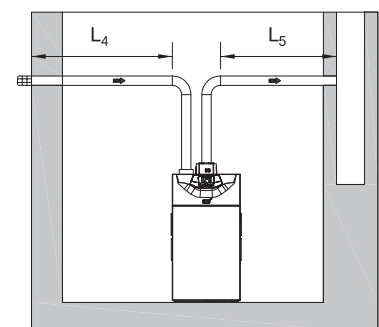
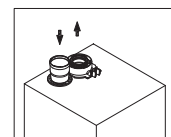
In case of installation of flue pipe not provided by BAXI, the pipes must be certified for this type of use and for a temperature higher than 100°C. The terminal part of the flue gas pipe must be certified as complying with the EN 1856-1 standard.

**C53** The maximum length of the dual inlet/outlet pipes provided by BAXI are shown in the table below.

Flue type	C53		
	HORIZONTAL		
	Dual flue $\varnothing$ [mm]	Maximum length L4+L5 [m]	Inlet pipe maximum length L4 [m]
Power HT + 1.50	80+80	60	15
Power HT + 1.70	80+80	27	15 (*)
Power HT+ 1.90	110+110	27	7
Power HT +1.110	110+110	27	7
Power HT +1.130	110+110	20	10
Power HT +1.150	110+110	20	10
Power HT +1.200	160+160**	42	-
Power HT +1.250	160+160**	41	-

(\*) L5 < 20 m

\*\*to connect the accessories with diameter  $\varnothing 160$  it is necessary to install the adaptor kit.



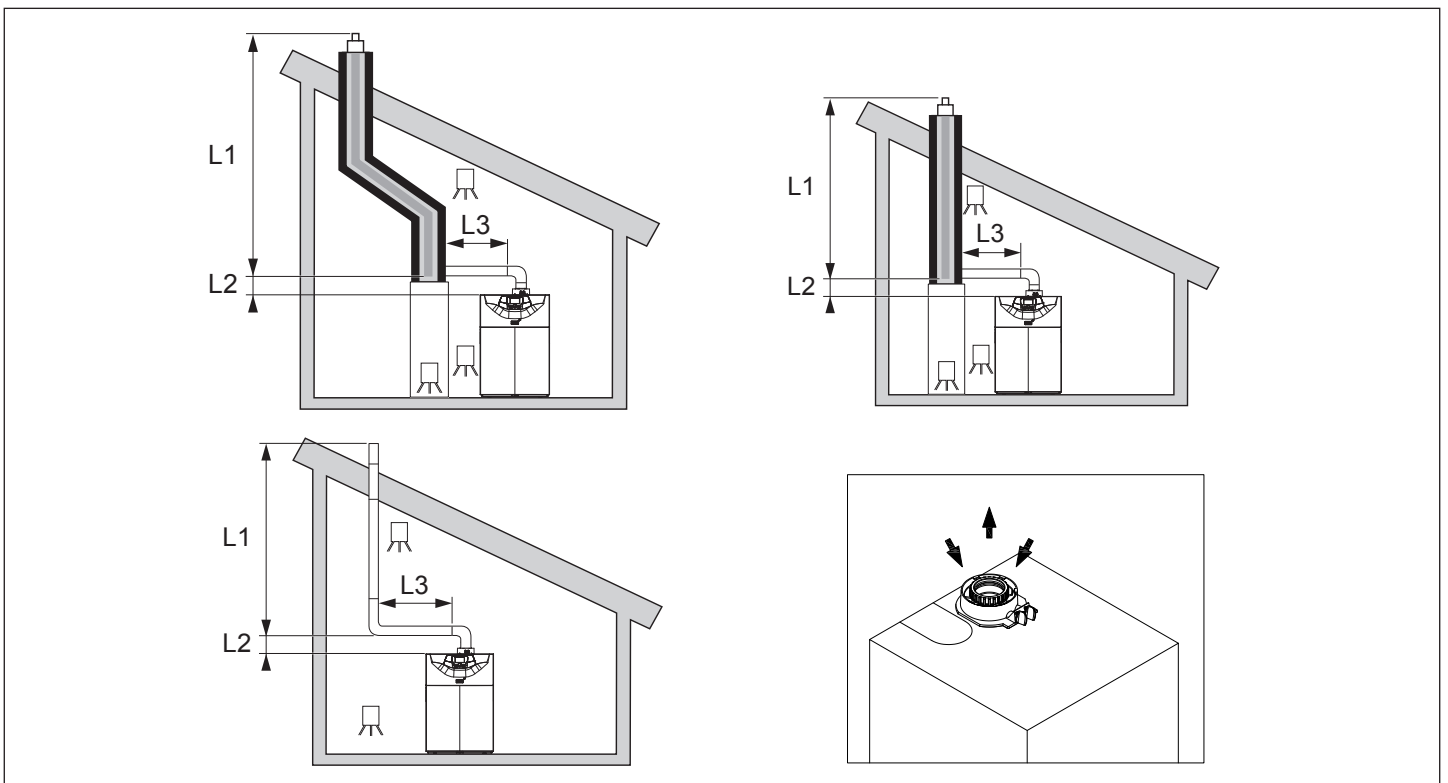
Do not fit the flue and air duct terminals on opposite walls of the building.

**B<sub>23</sub>** The below table shows the maximum length of the flue pipe connected to a chimney using flue systems provided by BAXI and air taken from the boiler room.

Flue type	B <sub>23</sub>		
	VERTICAL		
	Flue pipe Ø [mm]	Type	Maximum length L1+L2 [m]
Power HT + 1.50	80	rigid	20
		flexible	15
Power HT + 1.70	80	rigid	8
		flexible	6
Power HT + 1.90	110	rigid	20
Power HT + 1.110	110	rigid	56
		flexible	15
Power HT + 1.130	110	rigid	20
		flexible	7
Power HT + 1.150	110	rigid	27
		flexible	9
Power HT + 1.200**	160	rigid	39
		flexible	19
Power HT + 1.250**	160	rigid	23
		flexible	13

\*\*to connect the accessories with diameter Ø160 it is necessary to install the adaptor kit.

The lengths given in the table are valid for horizontal pipes (L3) with a maximum length of 1 meter+2 bends. For each additional meter of horizontal pipe (L3), subtract 1.2 m from the vertical length L1+L2



For flue pipes provided by BAXI (flue type B23 and C53):

- the insertion of a 90° bend reduces the total length of the pipe by 1 meter.
- the insertion of a 45° bend reduces the total length of the pipe by 0.5 meter.
- the first 90° bend is not taken into account in calculating the maximum length available.

Note: the minimum slope of the flue pipe toward the boiler must be 5 cm every meter of length.

**Caution for other flue installation types:**

C<sub>13</sub> : The terminal parts of the singled-up flue pipe must be installed in a 50 cm square.

C<sub>33</sub> : The terminal parts of the singled-up flue pipe must be installed inside a 50 cm square.

C<sub>43</sub> : The chimney or flue pipe must be suitable for such use.

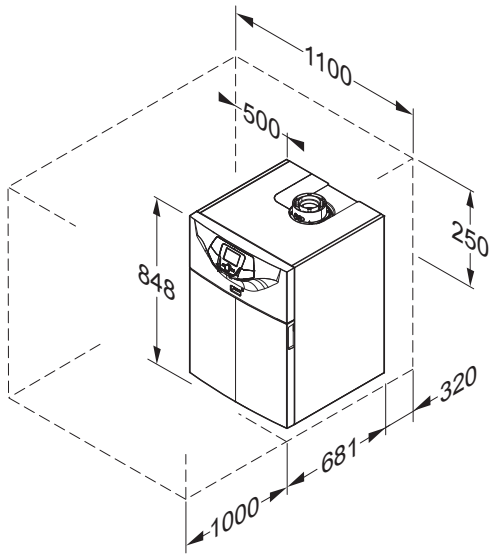
C<sub>83</sub> : The chimney or flue pipe must be suitable for such use.

Pipes maximum lengths are subjected to technical evaluation and must meet the requirements of the prevailing installation standards in the country.

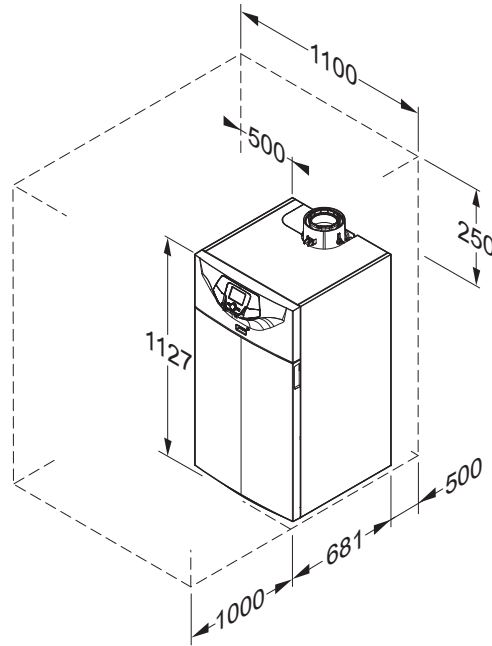
## Clearance dimensions

The figure shows the minimum clearance dimensions to allow an easy access to the boiler and servicing.

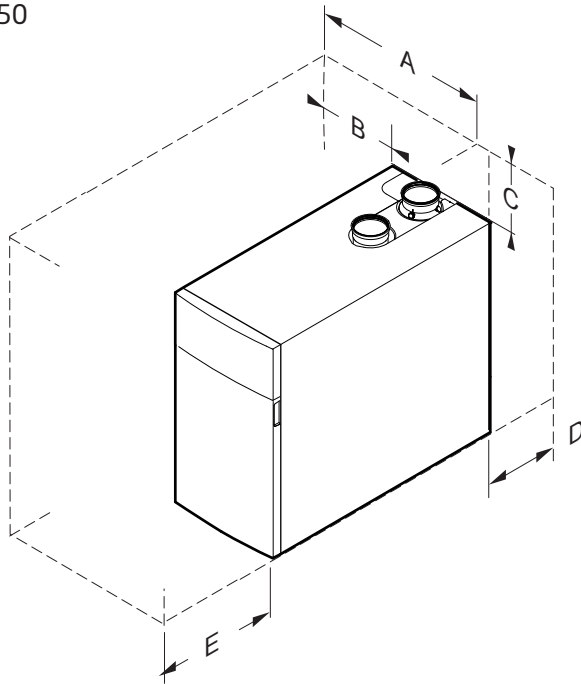
Power HT+ 1.50 - 1.70



Power HT+ 1.90 - 1.150



Power HT+ 1.200 - 1.250

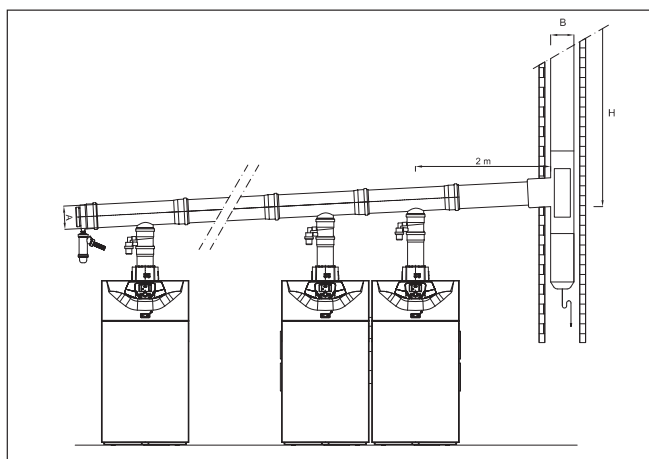


Models	A	B	C	D	E
POWER HT+ 1.130	1100	500	400	800	1000
POWER HT+ 1.150	1100	500	400	800	1000
POWER HT+ 1.200	1100	500	750	800	1000
POWER HT+ 1.250	1100	500	750	800	1000

Models	A	B	C	D	E
POWER HT+ 1.130	1100	500	400	500	1000
POWER HT+ 1.150	1100	500	400	500	1000
POWER HT+ 1.200	1100	500	750	500	1000
POWER HT+ 1.250	1100	500	750	500	1000



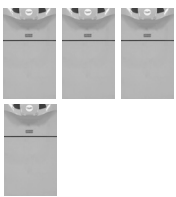
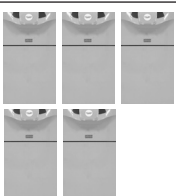
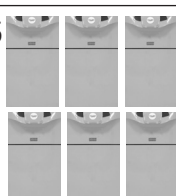
# Flue system - cascade installation

The table shows the diameters of the flue manifold and the flue for various configurations of boilers in cascade and for various heights of flue.



## Remarks

- distance of the manifold from the first boiler to the vertical chimney 2 meters;
- shutter kit installed in each boiler in cascade;
- the flue pipes and the connections between the flue manifold of the cascade and the chimney are not supplied by BAXI, also the manifolds for cascade installation with diameter bigger than 200 mm are not supplied by BAXI,
- the calculation has been made assuming a PP "double wall" flue duct.

N° boilers in cascade		Power HT+ 1.50	Power HT+ 1.70	Power HT+ 1.90	Power HT+ 1.110	Power HT+ 1.130	Power HT+ 1.150	Power HT+ 1.200	Power HT+ 1.250			
2		Nominal heat output Total 50°/30° C (kW)		100	140	180	220	260	300	400	500	
		Flue manifold Ø mm (A)		125	125	160	160	160	160	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country		
		Flue Ø mm (B) - H= 5-20 m		125	125	160	160	160	160			
3		Nominal heat output Total 50°/30° C (kW)		150	210	270	330	390	450	600	750	
		Flue manifold Ø mm (A)		125	125	160	160	200	200	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country		
		Flue Ø mm (B) - H= 5-20 m		125	160	160	160	160	160			
4		Nominal heat output Total 50°/30° C (kW)		200	280	360	440	520	600	800	1000	
		Flue manifold Ø mm (A)		125	160	200	200	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country				
		Flue Ø mm (B) - H= 5-20 m		160	160	200	200					
5		Nominal heat output Total 50°/30° C (kW)		250	350	450	550					
		Flue manifold Ø mm (A)		160	160	200	200					
		Flue Ø mm (B) - H= 5-20 m		160	200	200	200					
6		Nominal heat output Total 50°/30° C (kW)		300	420	540	660	Flue pipes to be sized after technical evaluation and must meet the requirements of the prevailing installation standards in the country				
		Flue manifold Ø mm (A)		160	200	200	200					
		Flue Ø mm (B) - H= 5-20 m		160	200	200	250					

Boilers in cascade can be connected to a sole flue manifold with a shutter kit connection.

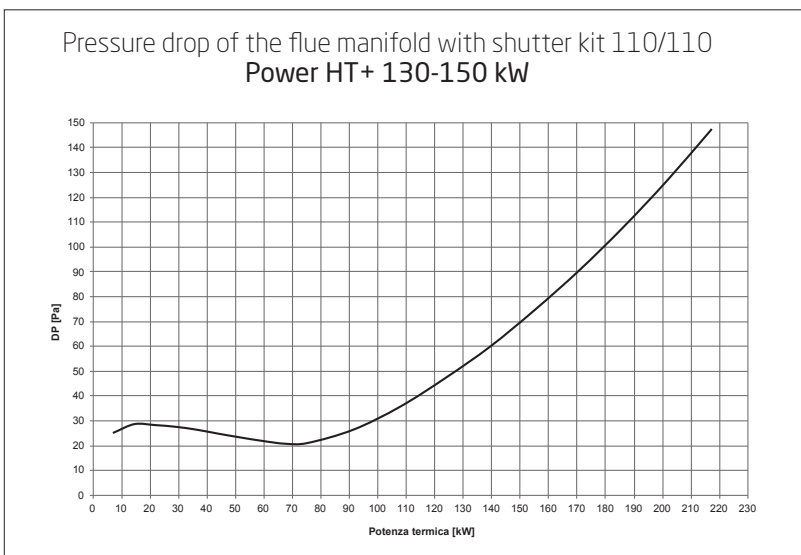
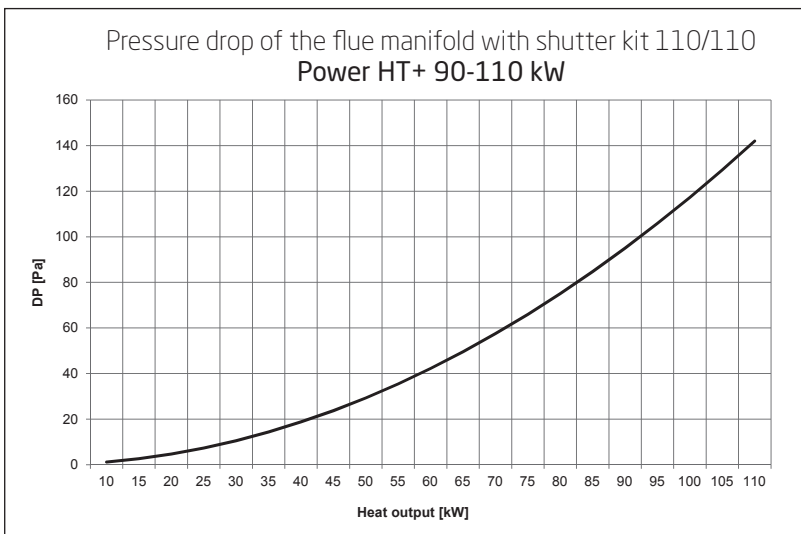
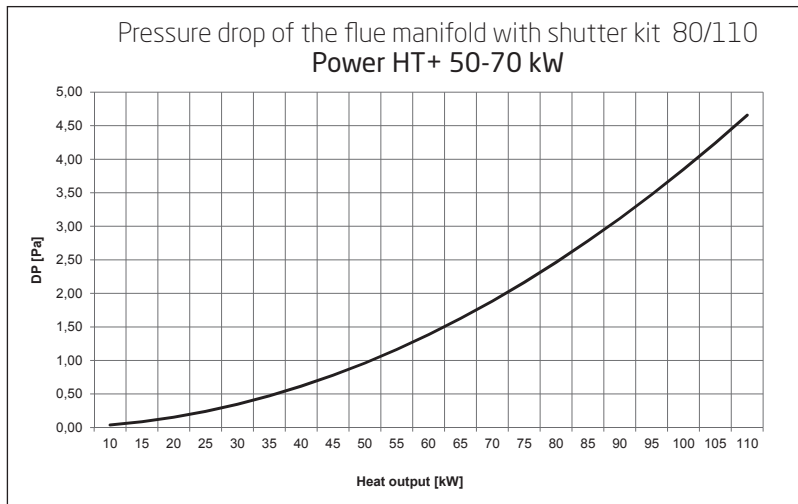
The shutter kit connection is equipped with condensing trap and it has the following diameters:

mod. 1.50-1.70: 80/110 mm;

mod 1.90-1.110: 110/110 mm;

mod 1.13-1.150: 110/110 mm.

The graphs show the pressure drop of the flue manifold with shutter kit as a function of the heat output.



Power HT+ 1.200 and 1.250 boilers are connectable to flue pipes Ø 160 mm (with the adapter 150/160) for single installation.

Flue accessories fore cascade installation are npt included in Baxi catalogue. For these 2 models, the shutter kit connection is included in the boiler.

Pipes maximum lengths are subjected to technical evaluation and must meet the requirements of the prevailing installation standards in the country.



# Neutralizer filters


Neutralizer filter to process the water deriving from the condensation of BAXI condensing boilers in cascade installations

Code KHG 71412571

Recharge for neutralizer kit for floor standing boilers up to 350 kW

Code KHG 71413541

Neutralizer filter for boilers up to 350 kW - floor standing installation		
Maximum condensate water flow	l/h	56
Max potentiality of the boiler	kcal/h	300.000
Max potentiality of the boiler	kW	350
Maximum working pressure	bar	2
Maximum temperature of the water content	°C	Corresponding to the maximum temperatures of the condensate waters
Min/Max room temperature	°C	5-40
Quantity of the first charge of product	Kg	5
Next recharges	Kg	4,5
Dimensions (hxwxwd)	mm	260x480*x225



Neutralizer kit for wall hung boilers  
up to 350 kW  
Code KHG 71412571


Cassette neutralizer filter to process the water deriving from the condensation of BAXI condensing boilers in cascade installations

Code A7709194

Recharge for cassette neutralizer kit for floor standing boilers in cascade up to 1500 kW

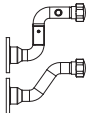


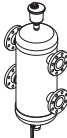
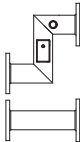
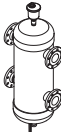


Code A7709195

Neutralizer filter for boilers up to 1500 kW - floor standing boilers in cascade up to 1500 kW		
Maximum condensate water flow	l/h	550
Max potentiality of the boiler	kW	1.500
Head pressure	m	3
Stagnation height	mm	90
Neutralizer		calcium carbonate
Normal stagnation duration		12 months (1.500 working hours)
Dimensions (hxwxwd)	mm	280x670x470
Outlet/inlet connection	mm	25/10
Outlet/inlet height	mm	30
Too loaded height	mm	100
Electrical connection		230V/50/Hz
Absorbed electrical power	W	74
Absorbed current	A	0,33
Grade of protection		IP 54



Neutralizer kit for cascade installations  
up to 1500 kW  
Code A7709194

## Hydraulic separator kit

Picture	Description	Code
	Hydraulic connection kit to the separator 8,5 m³/h G2" (it consists of: manifold insulation kit and flanges and gaskets kit)	7218613
	Hydraulic separator HS 8.5 of 8.5 m³/h - 2" threaded connectors	LSD 79000031
	Hydraulic connection kit to the separator 18 m³/h DN 65 (it consists of: manifold insulation kit and flanges and gaskets kit)	7218614
	Hydraulic separator HS 18 of 18 m³/h - Ø 65 flanged connectors	LSD 79000032
	Hydraulic connection kit to the separator 28 m³/h DN 80 (it consists of: manifold insulation kit and flanges and gaskets kit)	7218615
	Hydraulic separator HS 28 of 28 m³/h - Ø 80 flanged connectors	LSD 79000033
	Hydraulic separator HS 56 of 56 m³/h - Ø 100 flanged connectors	LSD 79000034
	Hydraulic separator (30 m³/h) for 130 - 250 kW boilers	7694133

# Plates exchangers

Picture	Description	Code
	Brazed exchanger SPS250 - 30 plates	7215320
	Brazed exchanger SPS250 - 40 plates	7215321
	Brazed exchanger SPS250 - 50 plates	7215322
	Inspectable exchanger SPI3- 13 plates	7215323
	Inspectable exchanger SPI3- 21 plates	7215324
	Inspectable exchanger SPI3- 27 plates	7111961
	Inspectable exchanger SPI3- 33 plates	7111962
	Inspectable exchanger SPI3- 41 plates	7111964
	Inspectable exchanger SPI3- 45 plates	7215325
	Inspectable exchanger SPI3- 57 plates	7215326
	Inspectable exchanger SPI3- 67 plates	7215327

Before the installation it is compulsory to choose the right exchanger that are subjected to technical evaluation and must meet the requirements of the prevailing installation standards in the country.

## Plate exchangers

### Selection charts

Primary circuit temperature 80°C - 60°C ΔT primary (20°C)

Secondary circuit temperature 50°C - 70°C ΔT secondary (20°C)

Rated heat output kW	Model	Connections	Heat input primary circuit m <sup>3</sup> /h	Heat input secondary circuit m <sup>3</sup> /h	Pressure drop primary circuit mH <sub>2</sub> O	Pressure drop secondary circuit mH <sub>2</sub> O
34	SPS250 - 30p	1"	1,49	1,49	0,42	0,43
45	SPS250 - 30p	1"	1,98	1,97	0,70	0,72
65	SPS250 - 40p	1"	2,86	2,84	0,80	0,82
85	SPS250 - 50p	1"	3,74	3,72	0,86	0,88
102	SPI3 - 13p	2"	4,48	4,45	1,35	1,37
130	SPI3 - 21p	2"	5,71	5,69	0,83	0,84
170	SPI3 - 21p	2"	7,47	4,77	1,35	1,37
195	SPI3 - 27p	2"	8,57	8,53	1,07	1,10
204	SPI3 - 27p	2"	8,97	8,92	1,17	1,19
255	SPI3 - 33p	2"	11,21	11,16	1,20	1,22
260	SPI3 - 33p	2"	11,43	11,37	1,24	1,27
306	SPI3 - 33p	2"	13,45	13,39	1,67	1,70
340	SPI3 - 41p	2"	14,94	14,87	1,35	1,37
408	SPI3 - 45p	2"	17,93	17,85	1,58	1,61

Primary circuit temperature 80°C - 60°C ΔT primary (20°C)

Secondary circuit temperature 55°C - 70°C ΔT secondary (15°C)

Rated heat output kW	Model	Connections	Heat input primary circuit m <sup>3</sup> /h	Heat input secondary circuit m <sup>3</sup> /h	Pressure drop primary circuit mH <sub>2</sub> O	Pressure drop secondary circuit mH <sub>2</sub> O
34	SPS250 - 30p	1"	1,49	1,99	0,42	0,73
45	SPS250 - 40p	1"	1,98	2,63	0,41	0,70
65	SPI3 - 13p	2"	2,86	3,8	0,59	1,02
85	SPI3 - 21p	2"	3,74	4,96	0,38	0,65
102	SPI3 - 21p	2"	4,48	5,96	0,53	0,91
130	SPI3 - 27p	2"	5,71	7,59	0,51	0,88
170	SPI3 - 33p	2"	7,47	9,93	0,57	0,98
195	SPI3 - 33p	2"	8,57	11,39	0,74	1,26
204	SPI3 - 41p	2"	8,97	11,91	0,53	0,91
255	SPI3 - 45p	2"	11,21	14,89	0,67	1,15
260	SPI3 - 45p	2"	11,43	15,18	0,70	1,19
306	SPI3 - 57p	2"	13,45	17,87	0,60	1,03
340	SPI3 - 57p	2"	14,94	19,85	0,73	1,25
408	SPI3 - 67p	2"	17,93	23,83	0,76	1,29

Primary circuit temperature 80°C - 60°C primary (20°C)








Secondary circuit temperature 55°C - 65°C secondary (10°C)

Rated heat output kW	Model	Connections	Heat input primary circuit m <sup>3</sup> /h	Heat input secondary circuit m <sup>3</sup> /h	Pressure drop primary circuit mH <sub>2</sub> O	Pressure drop secondary circuit mH <sub>2</sub> O
34	SPS250 - 30p	1"	1,49	2,97	0,42	1,52
45	SPS250 - 30p	1"	1,98	3,94	0,70	2,53
65	SPS250 - 40p	1"	2,86	5,69	0,80	2,88
85	SPS250 - 50p	1"	3,74	7,44	0,86	3,10
102	SPI3 - 21p	2"	4,48	8,92	0,53	1,91
130	SPI3 - 21p	2"	5,71	11,37	0,83	2,97
170	SPI3 - 27p	2"	7,47	14,87	0,84	3,01
195	SPI3 - 33p	2"	8,57	17,06	0,74	2,65
204	SPI3 - 33p	2"	8,97	17,85	0,80	2,87
255	SPI3 - 41p	2"	11,21	22,31	0,80	2,87
260	SPI3 - 41p	2"	11,43	22,75	0,83	2,97
306	SPI3 - 41p	2"	13,45	26,77	1,11	4,00
340	SPI3 - 45p	2"	14,94	29,75	1,13	4,07
408	SPI3 - 57p	2"	17,93	35,7	1,02	3,66

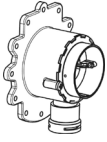
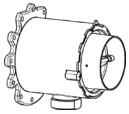
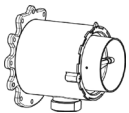
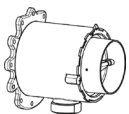
Before the installation it is compulsory to choose the right exchanger that are subjected to technical evaluation and must meet the requirements of the prevailing installation standards in the country.

## Other accessories

### Thermoregulation

Picture	Description	Code
	Mixing valve motor	KHG 71407851
	Mixing valve G1"	KHG 71407831
	Mixing valve G1/2"	KHG 71407861
	Mixing valve G3/4"	KHG 71407871
	Flow sensor for clip-in module THINK	KHG 71407891
	Hot water temperature sensor	KHG 71407681
	Sensor for solar controller	LNC 71000004

### LPG conversion kit

Picture	Description	Code
	LPG conversion kit for Power HT+ 1.50	7107186
	LPG conversion kit for Power HT+ 1.70	7107188
	LPG conversion kit for Power HT+ 1.90	7107189
	LPG conversion kit for Power HT+ 1.110	7107190





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