

Power Plus

Stand-alone and cascade installations (from 50 to 400 kW)



Condensing / Light commercial



Beretta

Power Plus: the efficiency of our condensing technology



Beretta **Power Plus** is a condensing pre-mixed air blown modulating wall-hung boiler, designed for cascade and stand-alone installation.

It is available in three versions:

- 50 M and 100 M (Master models, of 50 and 100 kW respectively), working both as stand-alone boilers or in cascade applications with Slave units;
- 100 S (Slave model, of 100 kW), especially designed to work in cascade applications (up to 400 kW) with a Master unit.

Power Plus range achieved an Efficiency ★★★★★, according to European Directive EEC 92/42.

Characteristics and advantages at glance

- Excellent performance combined with low running costs, thanks to Beretta condensing technology with pre-mix combustion.
- Possibility to combine Power Plus boilers in cascade systems up to 400 kW, making them suitable for a wide variety of installations, from office buildings and sports centres to schools and hotels.
- Maximum flexible and space-saving cascade installation, allowing the system to be tailored to meet the space requirements of the customer, who can choose among wall hung, linear free-standing and back-to-back free-standing configurations.
- Modulating and modular power regulation.
- Minimum polluting emissions, thanks to the controlled pre-mix burner and the micro-flame burner combination, allowing Power Plus to achieve Class 5 of the UNI EN 677 standard (best European category in ecological terms).
- Power Plus units are designed to provide water to 3 different circuits at different temperatures either supplied as direct take off's or via a header system utilizing controls as required. With this in mind suggested usage are DHW, High Temperature (heating) and Low Temperature (under-floor heating).
- Water drain built-in as standard in the boiler for each heating unit.
- These heating units boast latest generation electronic control, modularity and versatility, thus ensuring the installer a quick connection to any type of heating and hot water storage system as it simultaneously controls three different circuits, each operating at different temperatures.
- Temperature control built-in as standard.
- Automatic burner ignition sequence reversal.
- Frost-protection system
- Anti-legionnaires' disease function (only available with room-control kit).

Ten reasons why a Power Plus cascade system is the logical choice

Beretta Power Plus has been specifically designed for cascade applications. Thanks to its modularity and specific features, it can be considered the best solution for light commercial applications, both in the new buildings and as replacement of old floor standing boilers.

Maximum efficiency at any time

The efficiency of a Power Plus cascade system is significantly higher than a traditional single boiler installation with the same output. In fact, by controlling automatically the number of boilers in operation, the system can optimise the heat supply according to demand at any particular time. For instance in spring and autumn, when the heat request is lower, or in buildings like hotels and restaurants, where the heat request is not constant, the system can switch on and off the individual boilers, ensuring the maximum efficiency.

Maximum peace of mind

Power Plus cascade system is more reliable than a traditional individual boiler installation. As each boiler of the cascade can be individually serviced and maintained, in the event of a fault or maintenance on one boiler, the other boilers of the cascade are still able to operate without loss of heating.

Maximum savings

High efficiency of the cascade system and top condensing technology of the boilers allow you to save so much energy in daily use that the costs of the heating system are recovered in a few years. In addition, reduced installation time and quick servicing result also in precious money saving for the end user.

Maximum ease of servicing

Power Plus range is designed so that all components can be easily serviced and maintained from the front. Moreover, each boiler of the cascade can be individually serviced and maintained, while the other boilers of the cascade are still able to operate.

Maximum respect for the environment

Power Plus range achieved Class 5 of the UNI EN 677 standard (best European category in ecological terms), thanks to condensing combustion with controlled pre-mix burner and micro-flame burner combination. Moreover, a Power Plus cascade system can control automatically the number of boilers in operation according to heat demand, saving energy and reducing polluting emissions.

Maximum use of space

The cascade system of Power Plus range is designed to provide a space-saving and versatile solution for large domestic properties or light commercial buildings. The compact dimensions of Power Plus (1000x600x380 mm) enable for instance a 400 kW free standing back-to-back cascade to fit in less than 1,30 m²!

Maximum flexibility

Power Plus cascade installation can be tailored to meet the space requirements of the customer, as there are three different possibilities of composing the cascade: wall hung installation, free-standing side-by-side installation and free-standing back-to-back installation. Moreover, thanks to the modularity of the system, the total output can be accurately sized to meet the space and energy requirements of the building.

Maximum ease of installation

Power Plus cascade design allows an extremely easy installation. Each single boiler can be transported separately and its compact dimensions fit through most doorways. The cascade can be mounted directly in the boiler room, so that the system represents the right choice also in case of renovation of older boiler rooms. The installer simply has to set up the framework and connect boiler and all other parts together and the system is finished in an easy and quick way.

Maximum reliability

Beretta has carefully selected an extensive range of high quality components and accessories to configure Power Plus cascades up to 400 kW, as per detailed configuration proposals contained in this guide. By choosing Beretta complete Power Plus systems, you ensure that all components of your cascade work in harmony with one another, flow volumes are balanced and hydraulic performance is optimized, so that you obtain maximum reliability and saving from your heating system.

Maximum range of modulation

Power Plus M (master model) contains a board that can manage till 30 slaves in battery or burners till 3 MW of power, with a modulation down to only 16 kW. To configure multi-boiler cascades over 450 kW, all components of the cascade must be accurately sized and selected with the help of a specialised design engineer.

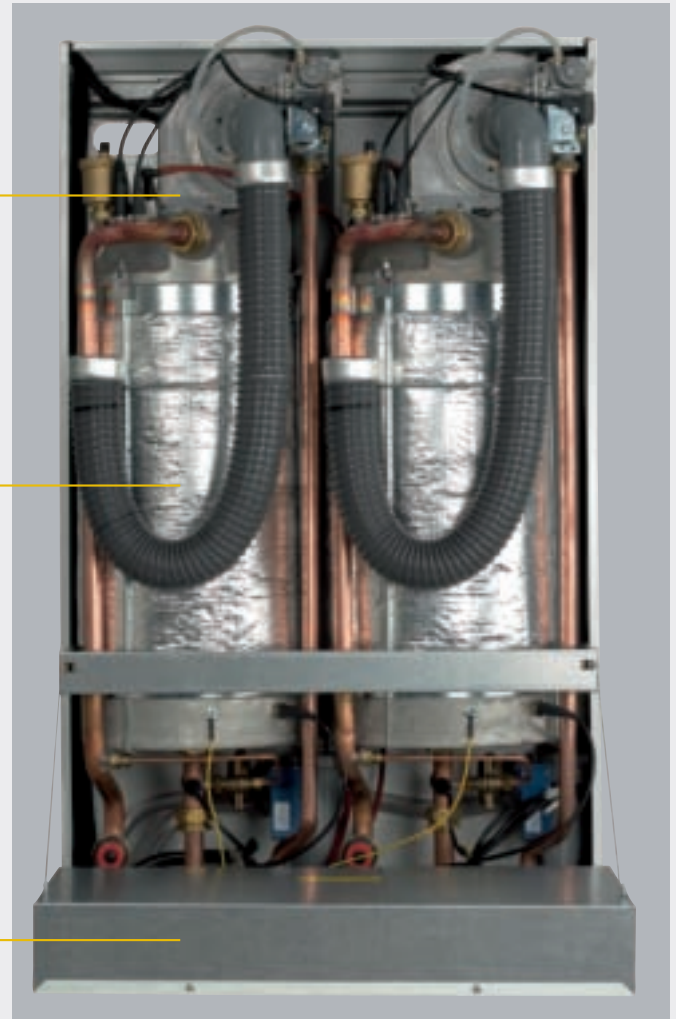
The architecture of Power Plus

Power Plus, according to the output, consists of one (50 kW) or two (100 kW) boiler units, connected to the water and gas system in parallel. Each unit is made up as follows:

Pre-mix combustion group, consisting in a modulating gas valve integrated with a high total head fan. This system guarantees a constant calibrated gas and air mix, ensuring the highest efficiency under any running conditions.

High efficiency 50 kW heat-exchanger consisting in a continuous bi-metal corrugated helical tube (copper on water side and AISI 316 stainless steel on flue sides) inside a cover. The micro-flame burner is located in the upper part of the heat-exchanger with single spark ignition.

The Master / Slave control system is located behind the front panel. It is made of a Master board that manages one or more Slave boards (according to the number of Slave boilers of the installation). The Master board, beside allowing the cascade installation of more Slave boilers, can manage:
a high temperature circuit;
a low temperature circuit;
a DHW tank, the temperature control function and the remote control panel.



The range

Power Plus 50 M

Master model, output from 15 to 50 kW (Hs), consists of one boiler unit and can work both as stand alone and in cascade applications with Slave models.

Power Plus 100 M

Master model, output from 15 to 100 kW (Hs), consists of two boiler units and can work both as stand alone and in cascade applications with Slave models.

Power Plus 100 S

Slave model, output from 15 to 100 kW (Hs), consists of two boiler units and can work only in cascade applications managed by a Master model.

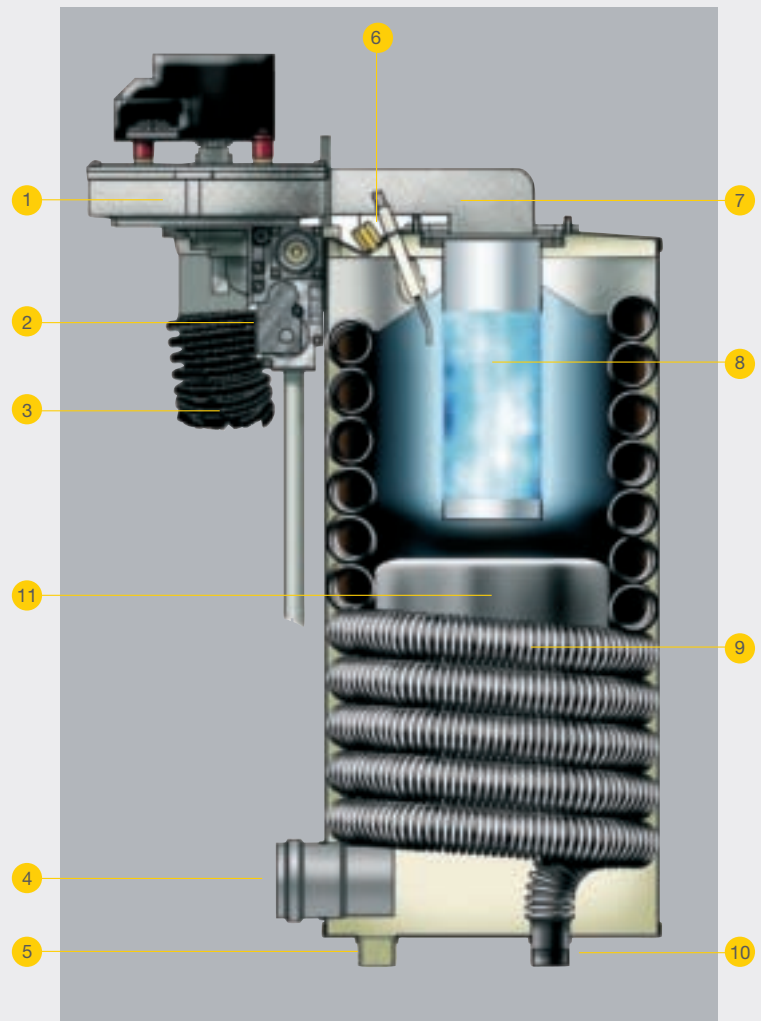
The technology: heat-exchanger

Power plus condensing heat-exchanger has a high exchange surface and an excellent corrosion resistance. It has a cylindrical shape and it is made of the following components:

- micro-flame burner;
- stainless steel covering AISI 316L;
- continuous bi-metallic corrugated helical tube (copper alloy on the water side and stainless steel on the flue side), which is coiled up inside the cover;
- refractory brick, which keeps the heat inside the combustion chamber and forces the flue gases over the heat exchanger surfaces, optimising the thermal heat exchange performance.

Key:

- 1 Fan
- 2 Gas valve
- 3 Air inlet pipe
- 4 Flue discharge pipe
- 5 Condensate discharge pipe
- 6 Single spark ignition and flame control electrode
- 7 Flow pipe
- 8 Burner
- 9 Heat-exchanger
- 10 Return pipe
- 11 Refractory brick



Condensing heat-exchanger

★★★★ EFFICIENCY,
according to European Directive EEC 92/42.

- Pre-mix burner : low NOx emissions : Class 5 (EN 677)
- Built-in temperature control and external probe as standard
- Gas Directive EEC 90/396
- Low voltage Directive EEC 89/336
- Electromagnetic compatibility Directive EEC 73/23

One frame, three different installation solutions

Beretta has developed a clever frame for the cascade (or stand-alone) installation of Power Plus.

According to the space requirements of the customer, the same frame allows three different possibilities of installation:

- wall-hung,
- linear free-standing,
- back-to-back free-standing installation.

Trouble-free installation, compact design and competitive price make this frame the most clever solution to install your Power Plus with or without the need of a wall.

The robustness of the frame (made in painted, zinc-coated steel) completes the profile of this versatile product.



linear
wall-hung or free-standing and installation



back-to-back
free-standing installation

Beretta ready-made configurations

Beretta offers you in the following pages a wide choice of configurations of Power Plus series, among which you can choose the one that best meets your requirements.

According to the preferred installation solution and the power you need, Beretta suggests :

- **8 linear wall-hung or free-standing configurations (from 50 to 400 kW);**
- **6 back-to-back free-standing cascade configurations (from 150 to 400 kW).**

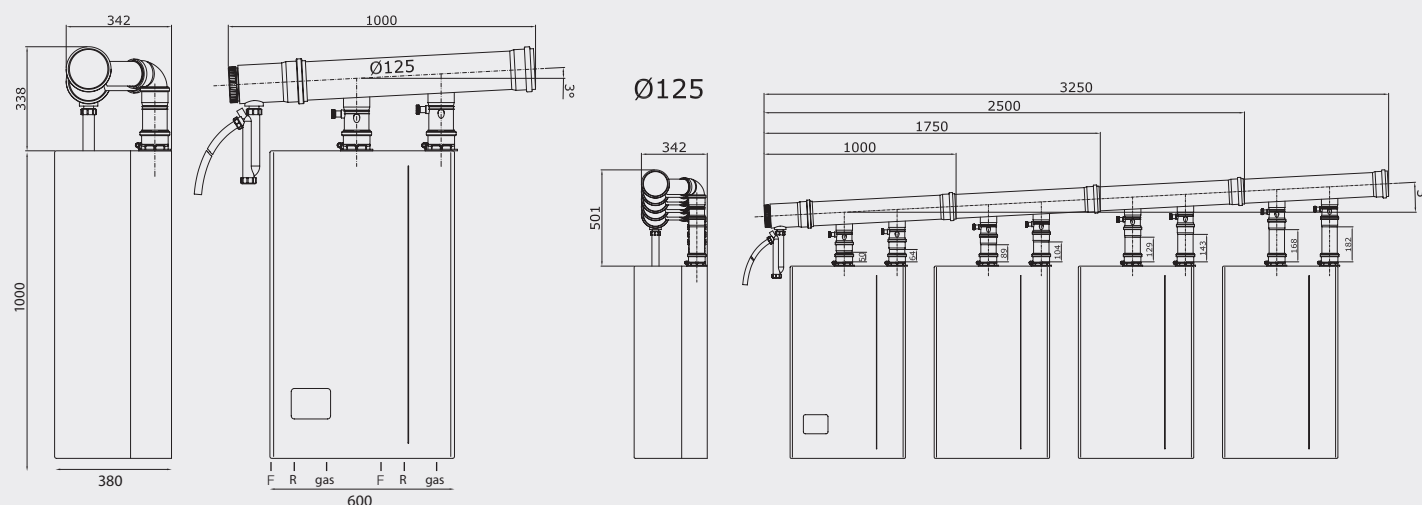
Every configuration is described by a diagram, with a key related to the different components of the configuration, in order to facilitate the comprehension.

Technical specifications

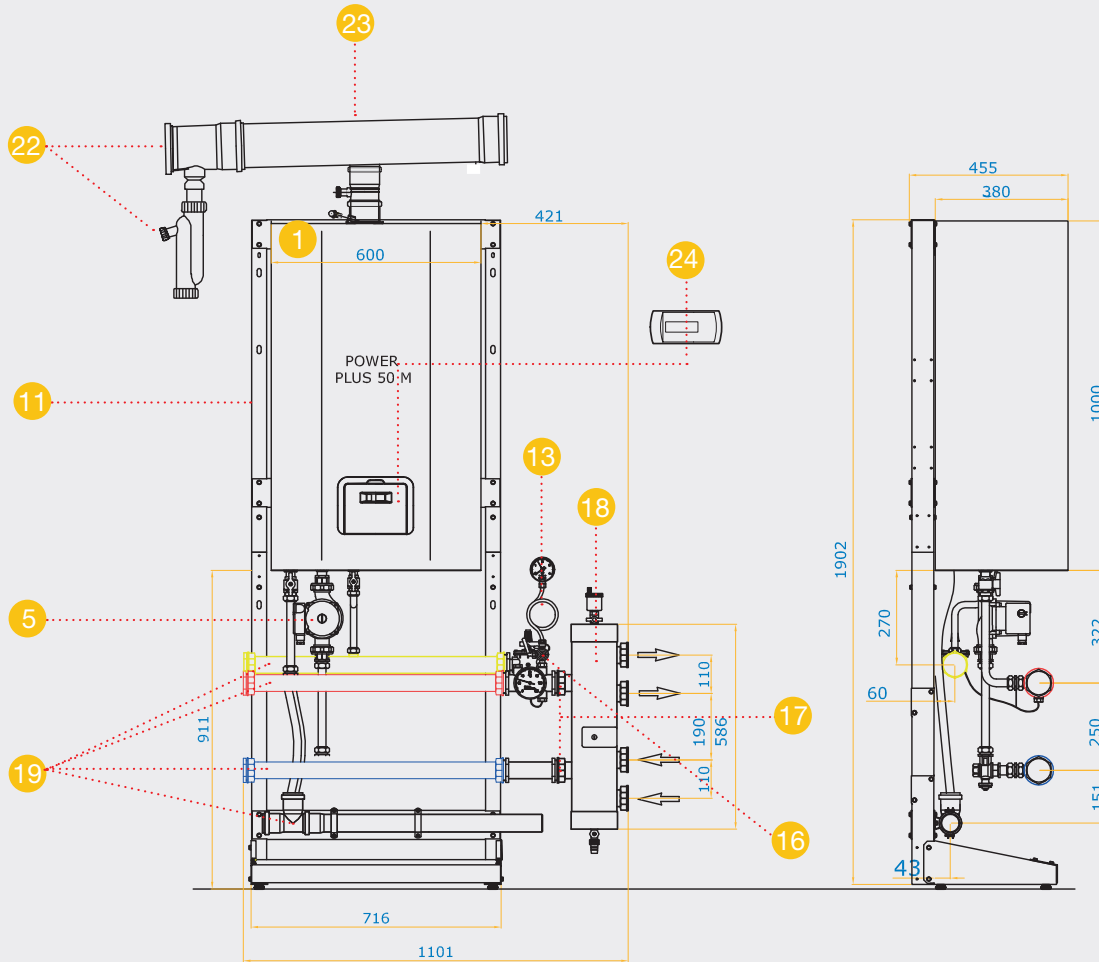
KEY:

- M Master model
- S Slave model

SPECIFICATIONS		Power Plus 50 M	Power Plus 100 M	Power Plus 100 S
Heat input (Hs)	kW	50	100	100
Heat input (Hi)	kW	45	90	90
Nominal heat output 100% (80-60 °C)	kW	44,20	88,30	88,30
Nominal heat output 100% (50-30 °C)	kW	48,50	96,80	96,80
Nominal heat output 100% (60-40 °C)	kW	47,70	95,40	95,40
Efficiency ref. NHV (80-60 °C)	%	98,20	98,20	98,20
Efficiency ref. NHV (50-30 °C)	%	107,70	107,70	107,70
Efficiency ref. NHV, Tm = 50°C (60 - 40 °C)	%	106,10	106,10	106,10
Efficiency ref. Hi (European Directive CEE 92/42)		★★★★	★★★★	★★★★
Efficiency at partial load 30% (80 - 60 °C)	%	98,70	98,70	98,70
Efficiency at partial load 30% (50 - 30 °C)	%	108,70	108,70	108,70
Efficiency at partial load 30%, Tm = 50 °C (60 - 40 °C)	%	106,60	106,60	106,60
CENTRAL HEATING				
Maximum / minimum operating pressure	bar	6:0,50	6:0,50	6:0,50
Adjustable CH temperature range (min/max)	°C	20:80	20:80	20:80
Pump: nominal flow rate per unit	l/h	2000	2000	2000
ELECTRICAL				
Power supply	V - Hz	230 ~ 50	230 ~ 50	230 ~ 50
Maximum power consumption	W	169	333	333
CONNECTIONS				
Flow - for central heating	Ø	1"	1"	1"
Gas inlet	Ø	3,4"	3,4"	3,4"
Return - for central heating	Ø	1"	1"	1"
Quantity and diameter fumes flue	n / mm	1x50	2x50	2x50
Condensate drain	Ø mm	18	18	18
FLUE DETAILS				
CO air free emissions at minimum - maximum less than	mg/kWh	11 - 91	11 - 91	11 - 91
NOx class (EN 677)		5	5	5
DIMENSIONS, WEIGHT, GAS				
Dimensions (H x W x D)	mm	1000x600x380	1000x600x380	1000x600x380
Dry weight	kg	60	90	90
Available gas versions		G20 / G30 / G31	G20 / G30 / G31	G20 / G30 / G31



Stand-alone configuration - 50 kW (wall-hung or free-standing)



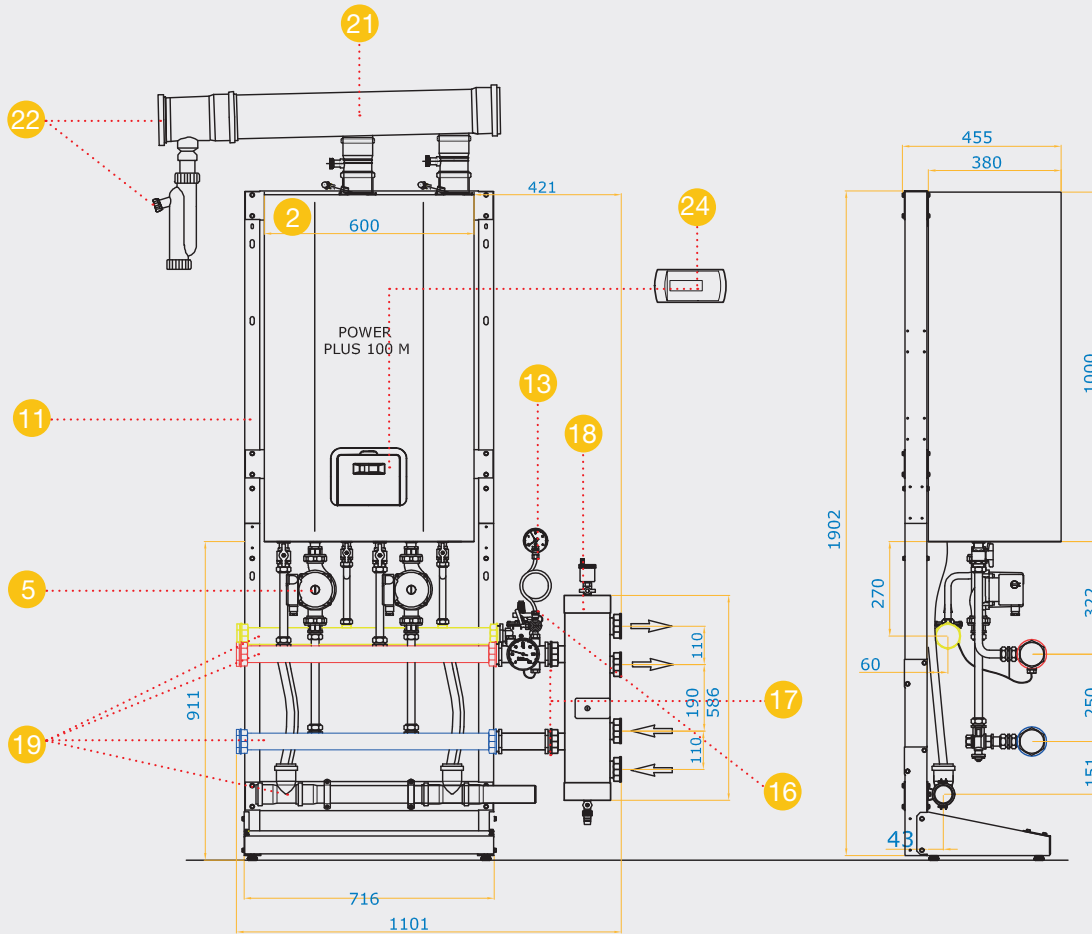
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diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
19	20017226	Hydraulic manifold kit 100 kW for Power Plus rig with blank end-flange	1
5	20009442	Pump kit (front) for Power Plus rig	1
18	20017271	Hydraulic header/separator – 100 kW	1

diagram ref.	code	description	quantity
17	20017270	Connection pipes kit to hydraulic header/seperator - 100 kW	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
16	20009486*	Gas safety cut-off valve (100 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	1
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Stand-alone configuration - 100 kW (wall-hung or free-standing)



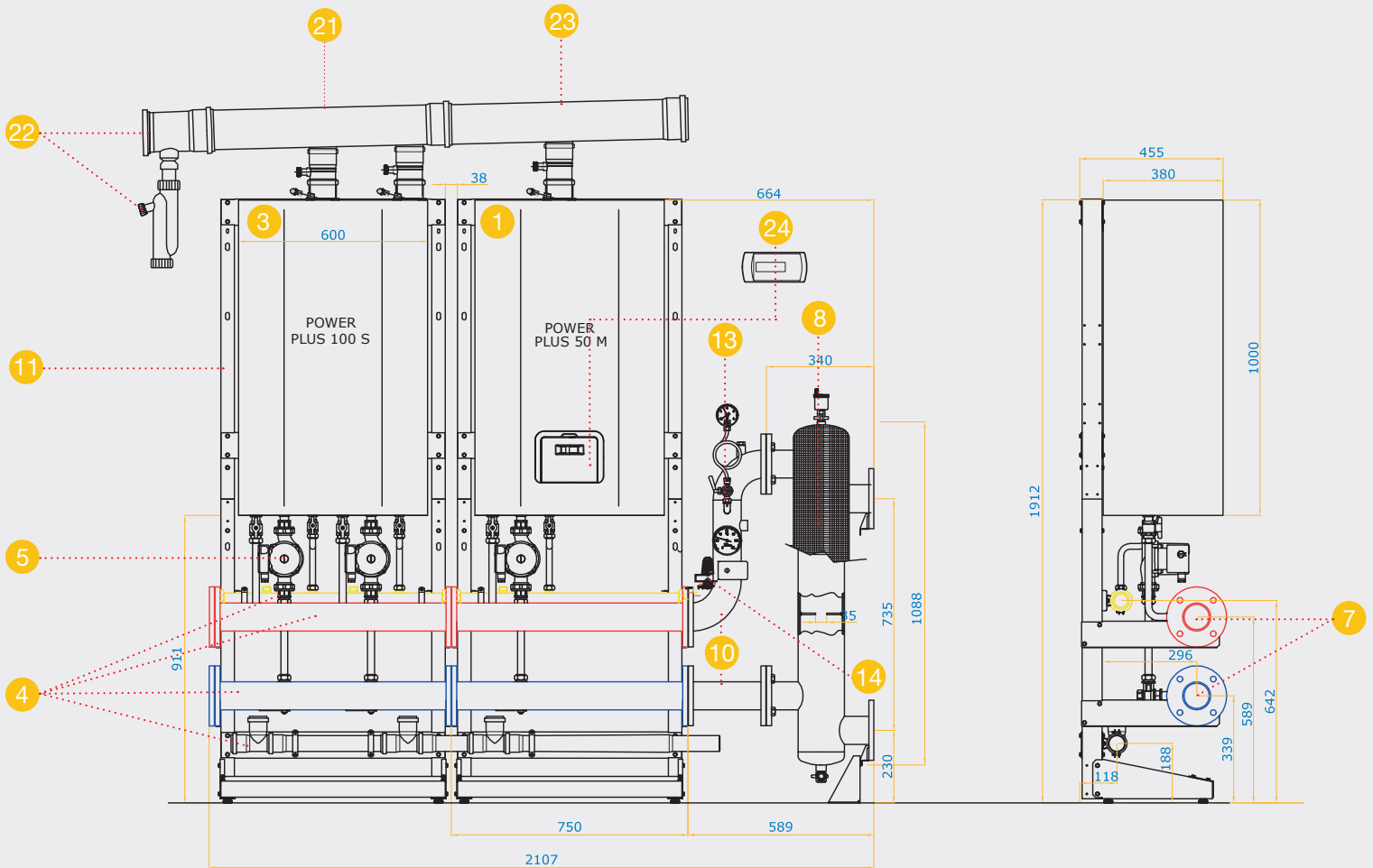
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diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
19	20017226	Hydraulic manifold kit 100 kW for Power Plus rig with blank end-flange	1
5	20009442	Pump kit (front) for Power Plus rig	2
18	20017271	Hydraulic header/seperator – 100 kW	1

diagram ref.	code	description	quantity
17	20017270	Connection pipes kit to hydraulic header/seperator - 100 kW	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
16	20009486*	Gas safety cut-off valve (100 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	1
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	1
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 150 kW (wall-hung or free-standing)



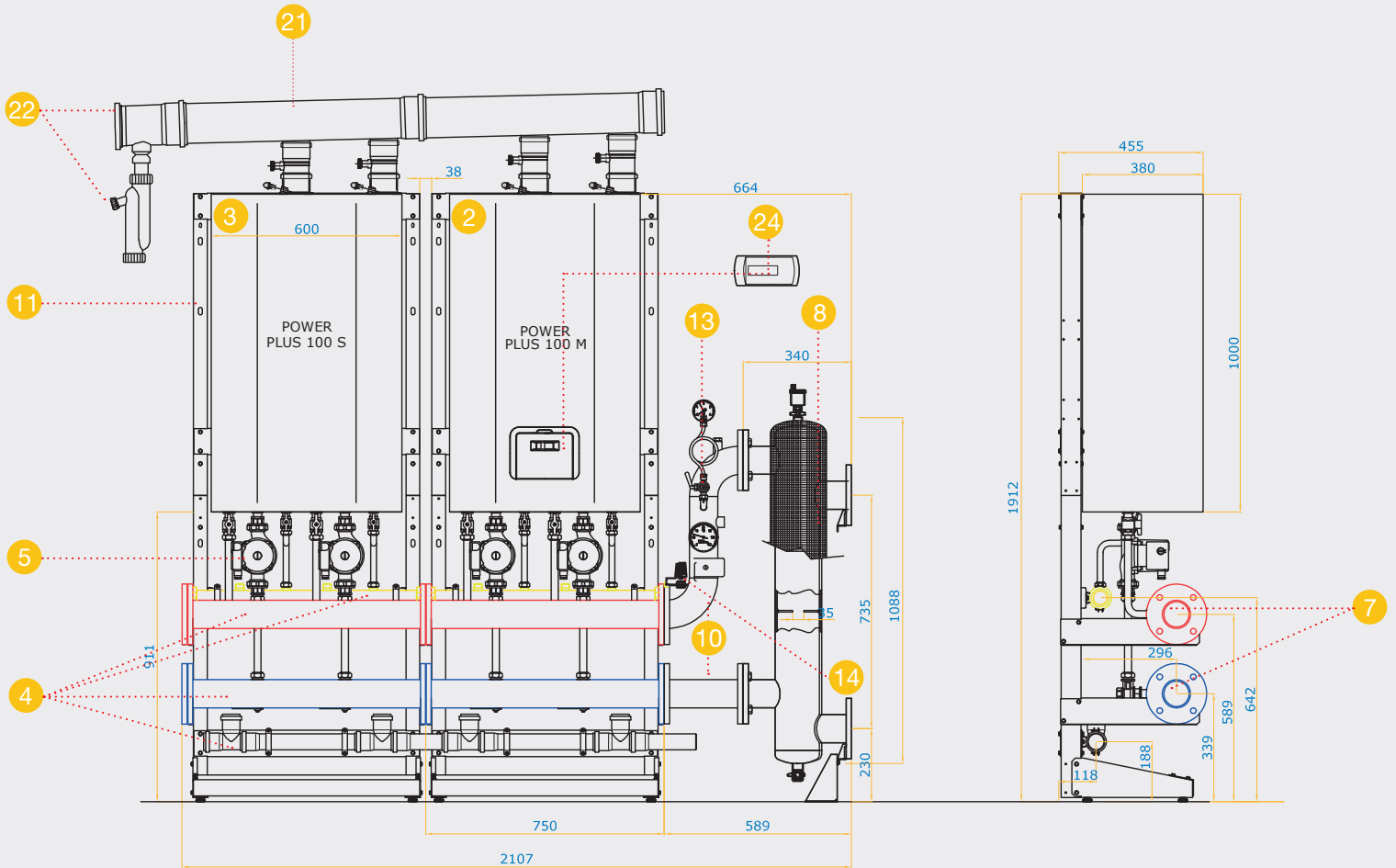
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diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	3
8	20009466	Hydraulic header/separator – 150-200 kW	1

diagram ref.	code	description	quantity
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
14	20009482*	Gas safety cut-off valve (200 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	1
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 200 kW (wall-hung or free-standing)



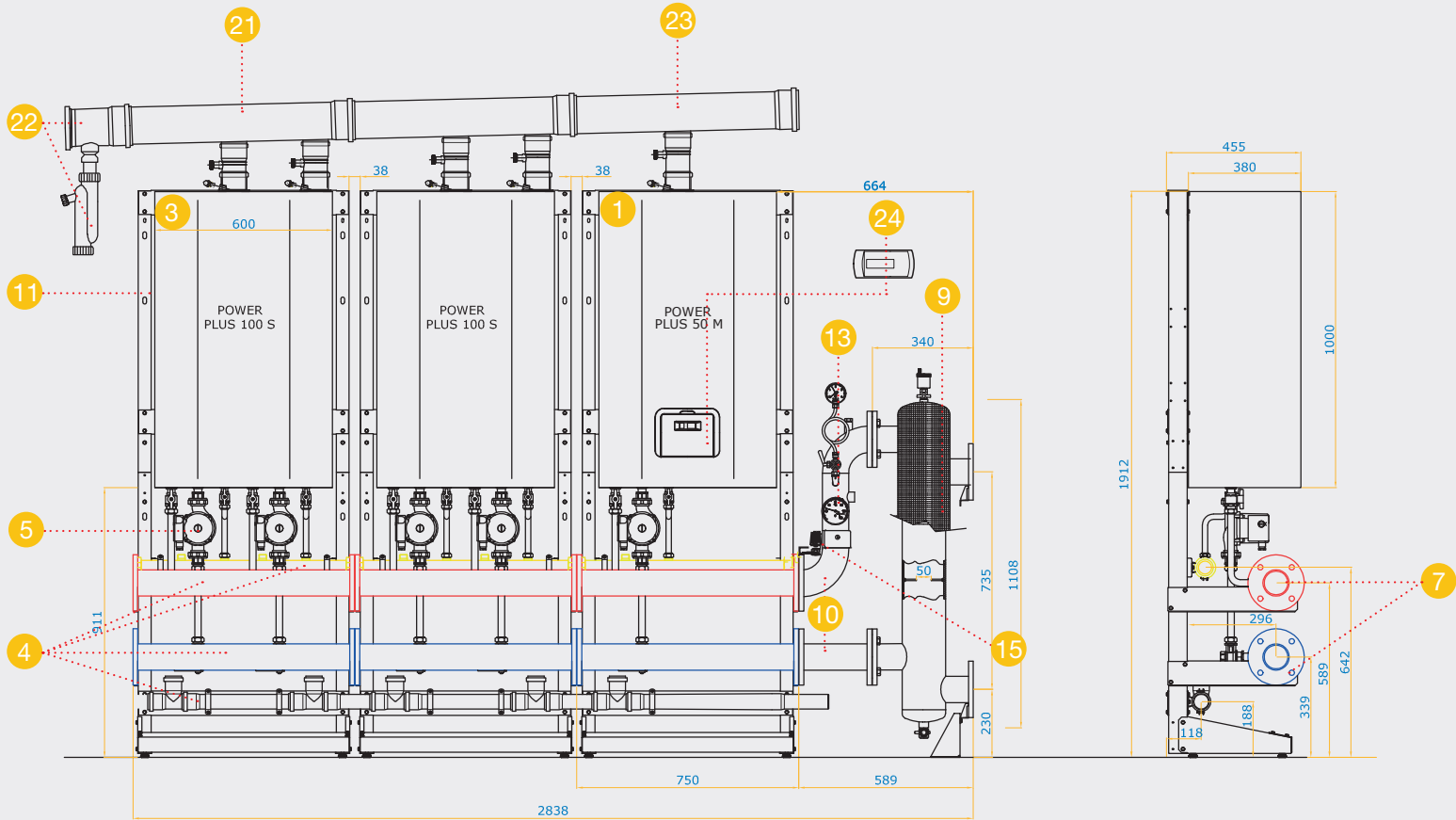
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diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	4

diagram ref.	code	description	quantity
8	20009466	Hydraulic header/separator – 150-200 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
14	20009482*	Gas safety cut-off valve (200 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	2
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 250 kW (wall-hung or free-standing)



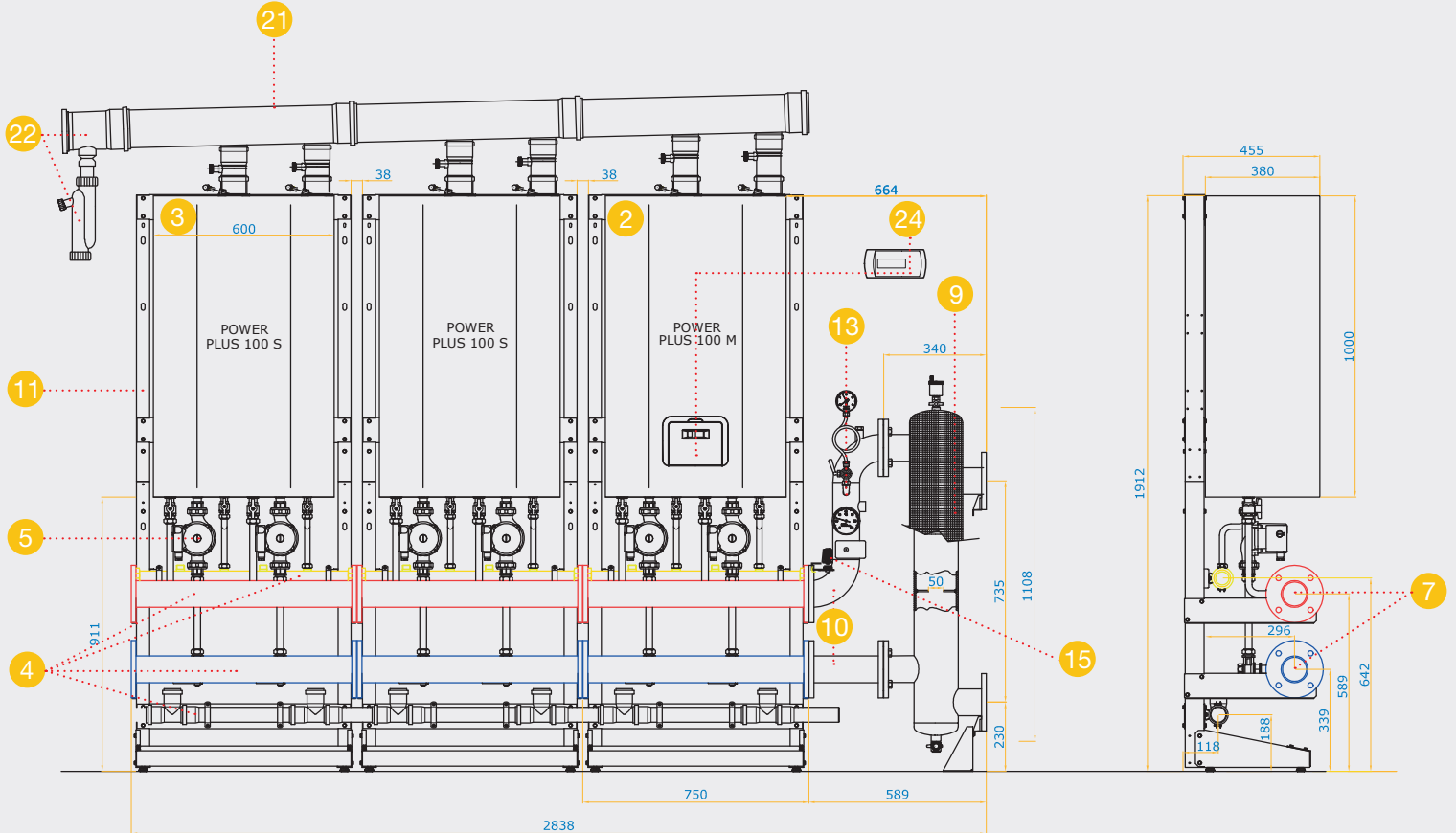
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diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	2
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	3
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	5
9	20009467	Hydraulic header/separator - 250-400 kW	1

diagram ref.	code	description	quantity
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	3
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	2
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 300 kW (wall-hung or free-standing)



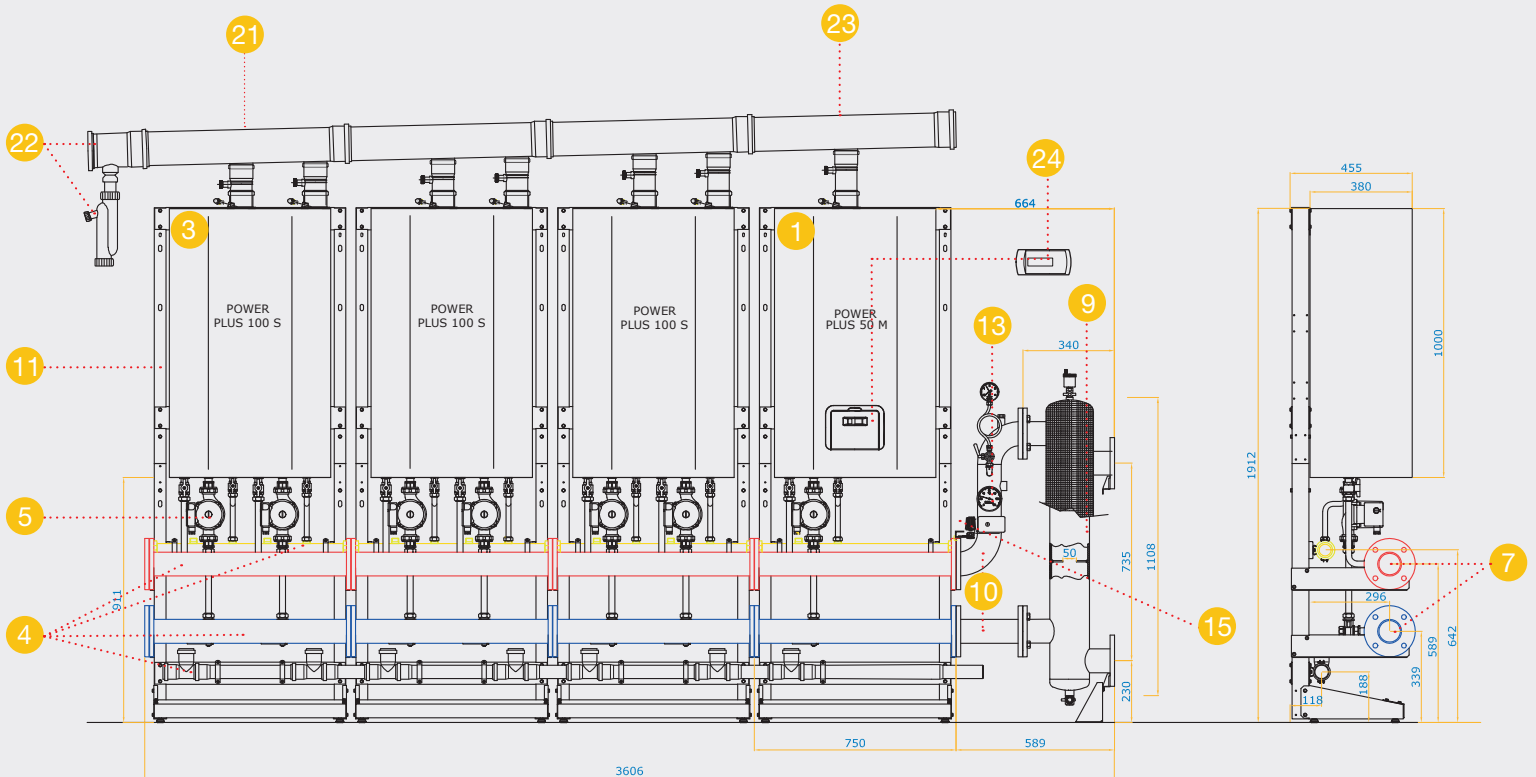
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diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	2
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	3
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	6

diagram ref.	code	description	quantity
9	20009467	Hydraulic header/separator - 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	3
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	3
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 350 kW (wall-hung or free-standing)



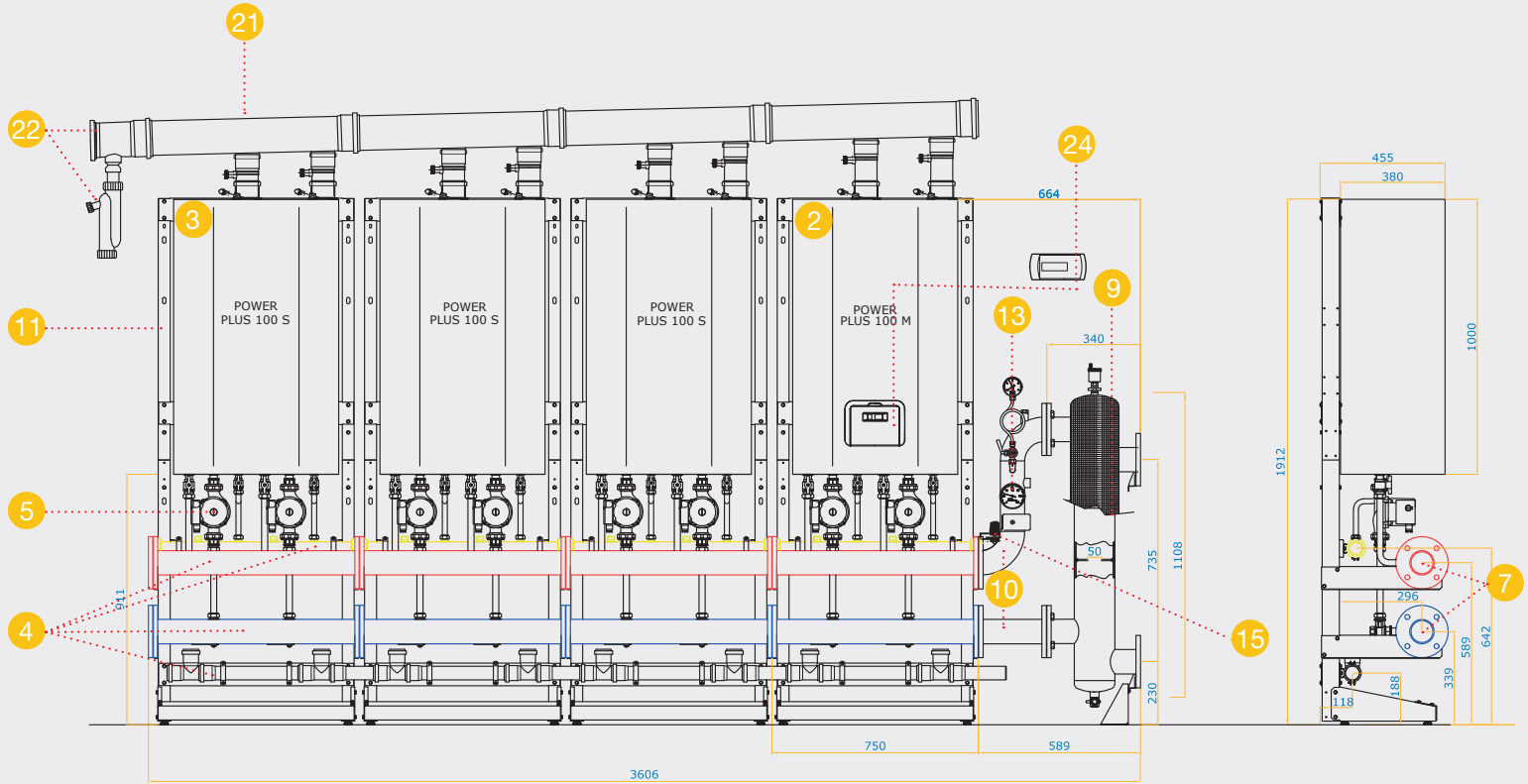
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diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	3
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	4
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	7
9	20009467	Hydraulic header/separator - 250-400 kW	1

diagram ref.	code	description	quantity
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	4
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	3
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

Linear cascade configuration - 400 kW (wall-hung or free-standing)



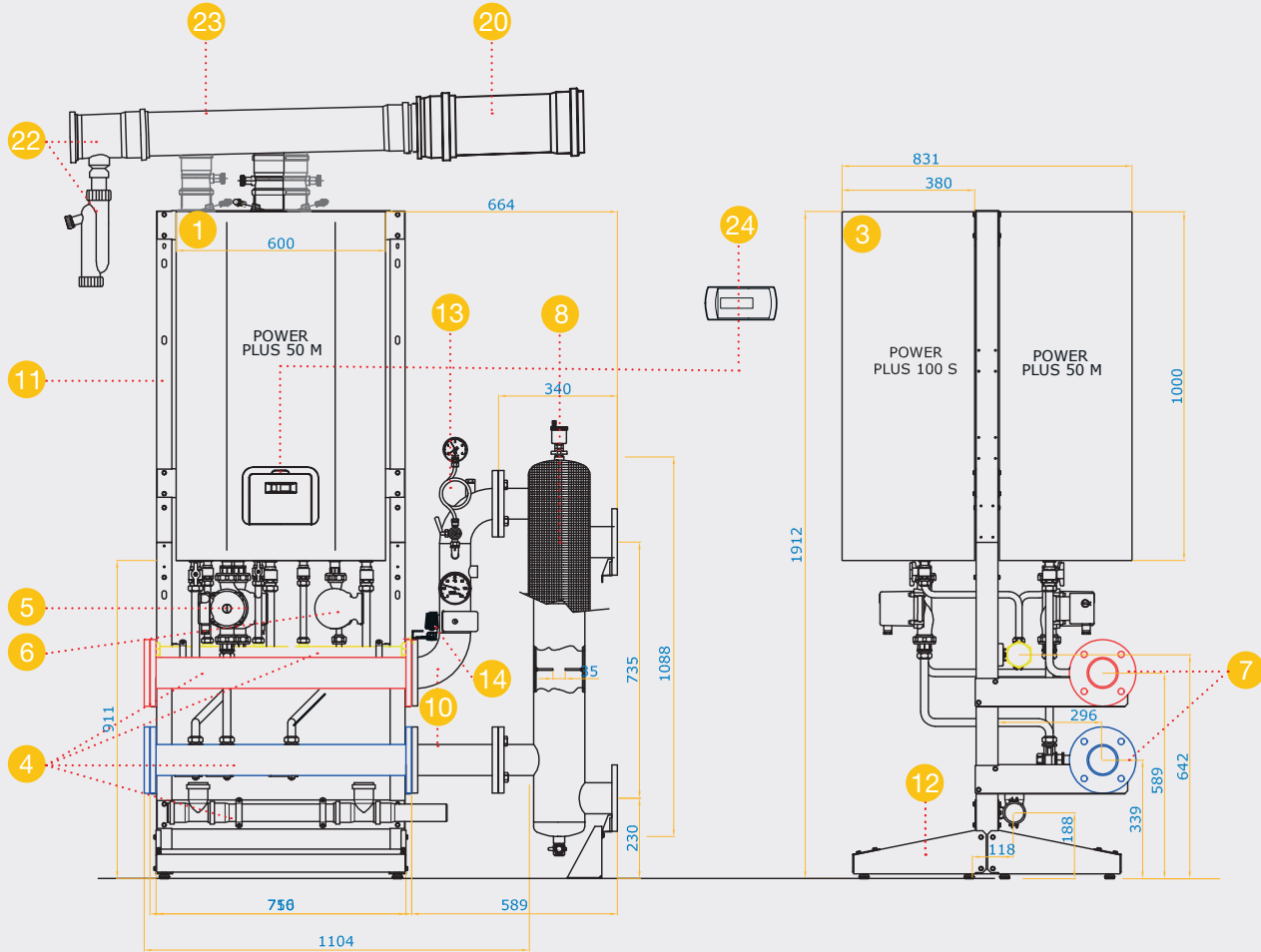
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diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	3
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	4
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	8

diagram ref.	code	description	quantity
9	20009467	Hydraulic header/separator 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	4
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	4
22	4030031	Condensate drain kit Ø 125 with tap	1

* OPTIONAL component

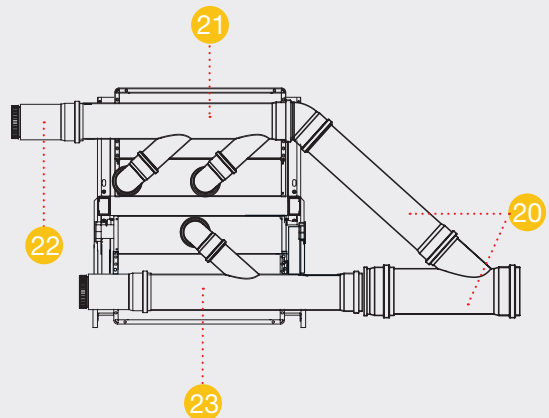
Back-to-back free-standing cascade configuration - 150 kW



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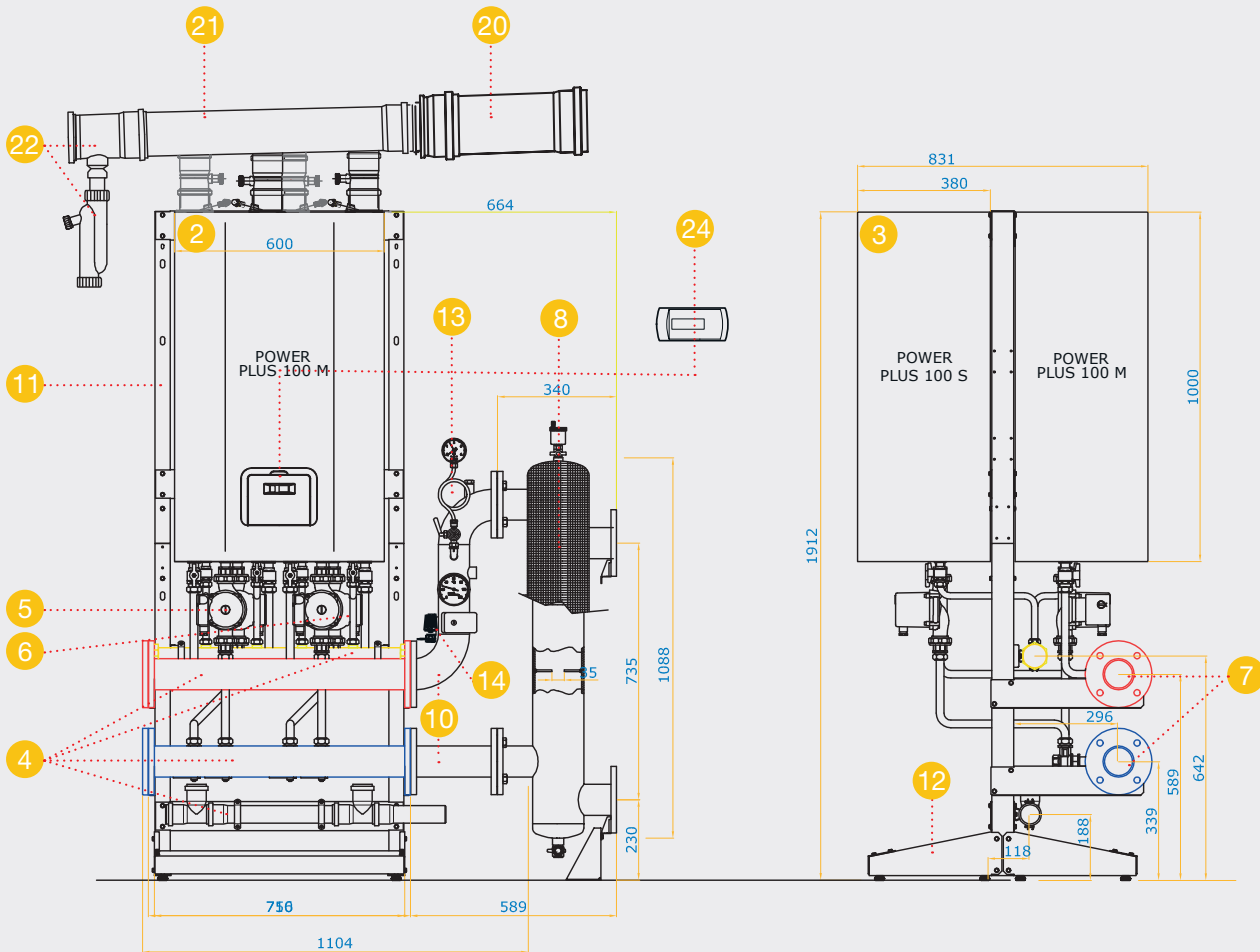
diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	1
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	1
6	20009443	Pump kit (rear) for Power Plus rig	2
8	20009466	Hydraulic header/separator - 150-200 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
14	20009482*	Gas safety cut-off valve (200 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	1
12	20009474	Rear mounting kit for Power Plus free-standing rig	1

diagram ref.	code	description	quantity
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	1
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



* OPTIONAL component

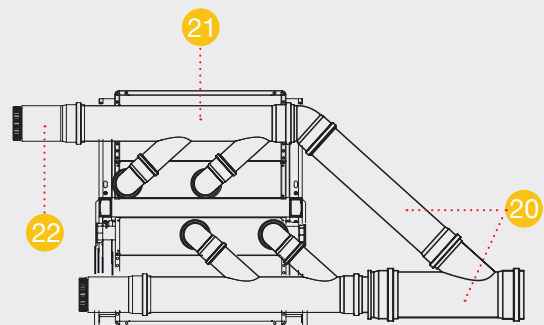
Back-to-back free-standing cascade configuration - 200 kW



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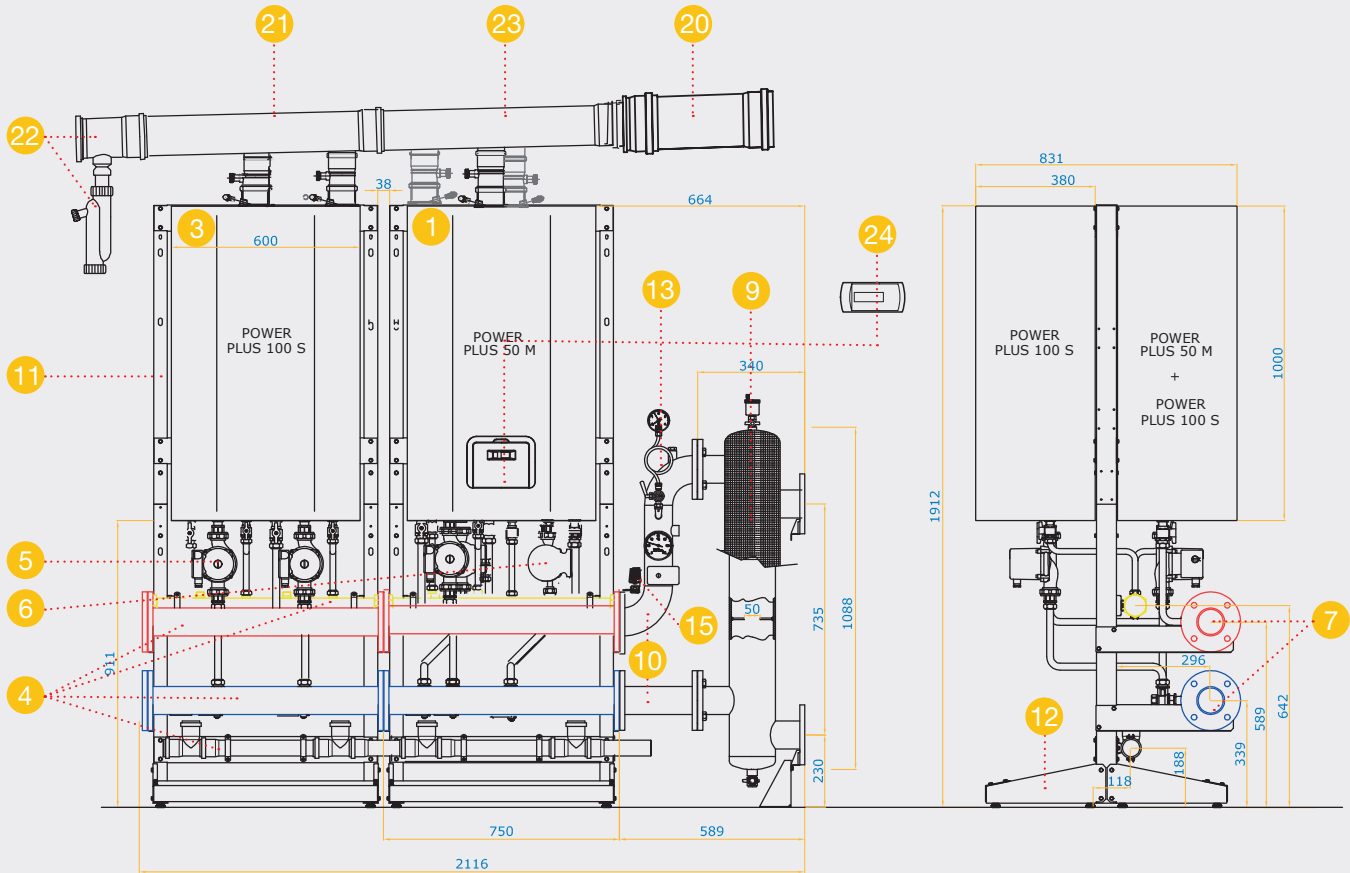
diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	1
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	1
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	2
6	20009443	Pump kit (rear) for Power Plus rig	2
8	20009466	Hydraulic header/separator - 150-200 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
14	20009482*	Gas safety cut-off valve (200 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	1
12	20009474	Rear mounting kit for Power Plus free-standing rig	1

diagram ref.	code	description	quantity
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	2
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



* OPTIONAL component

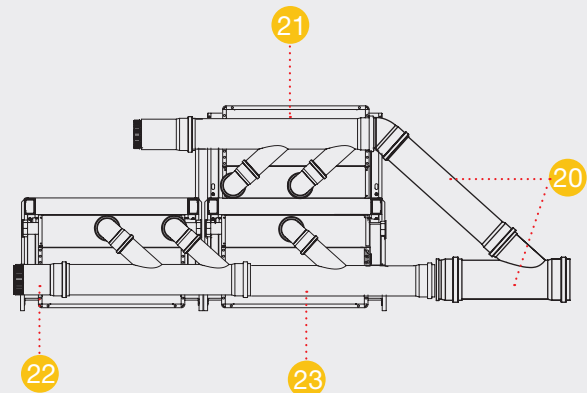
Back-to-back free-standing cascade configuration - 250 kW



This scheme has only an indication purpose

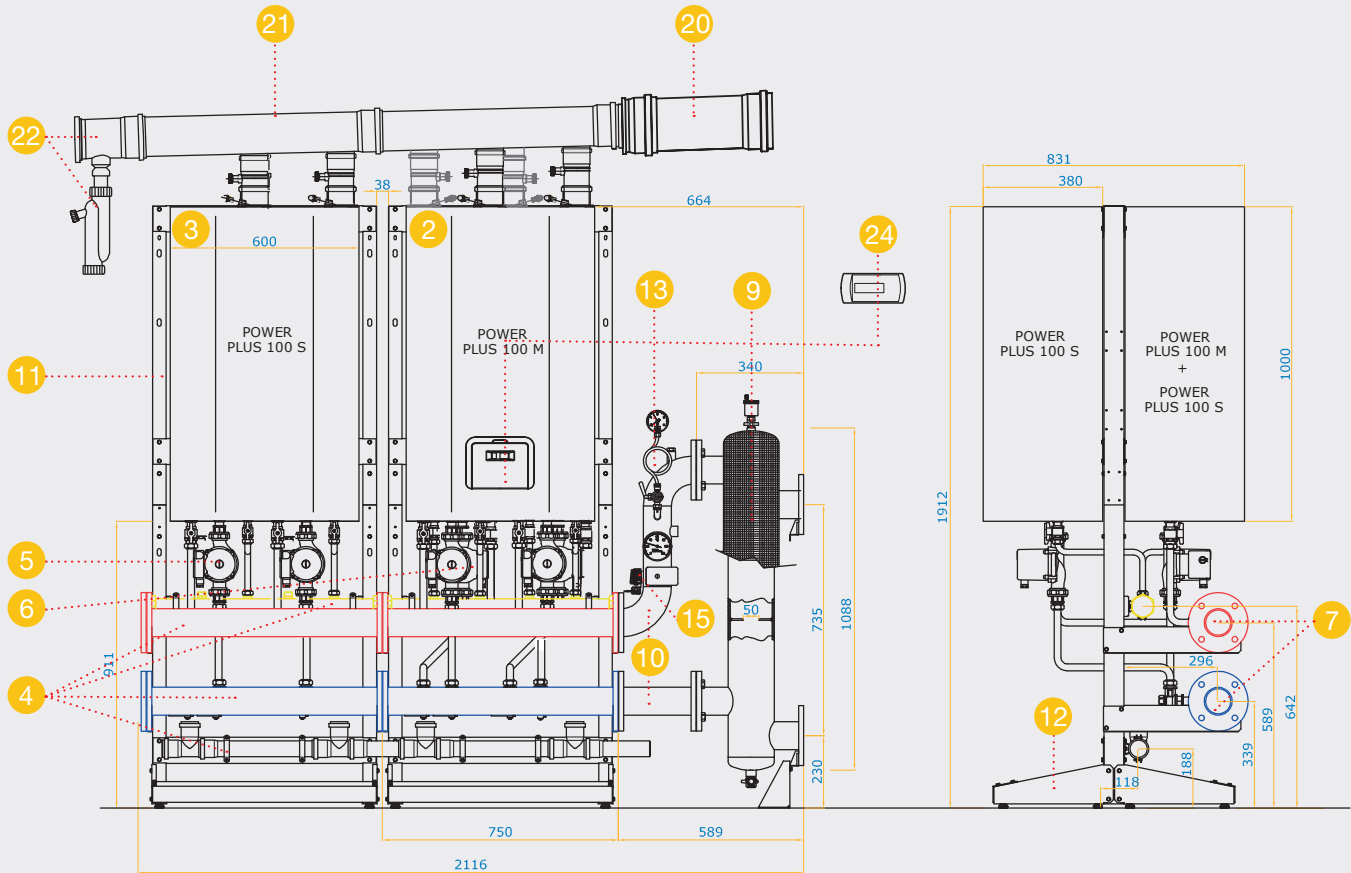
diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	2
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	3
6	20009443	Pump kit (rear) for Power Plus rig	2
9	20009467	Hydraulic header/separator - 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
12	20009474	Rear mounting kit for Power Plus free-standing rig	2

diagram ref.	code	description	quantity
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	2
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



* OPTIONAL component

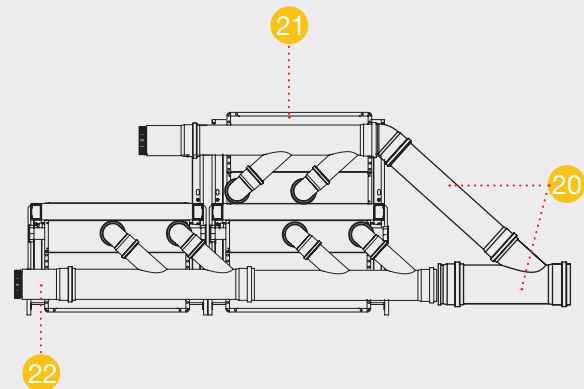
Back-to-back free-standing cascade configuration - 300 kW



This scheme has only an indication purpose

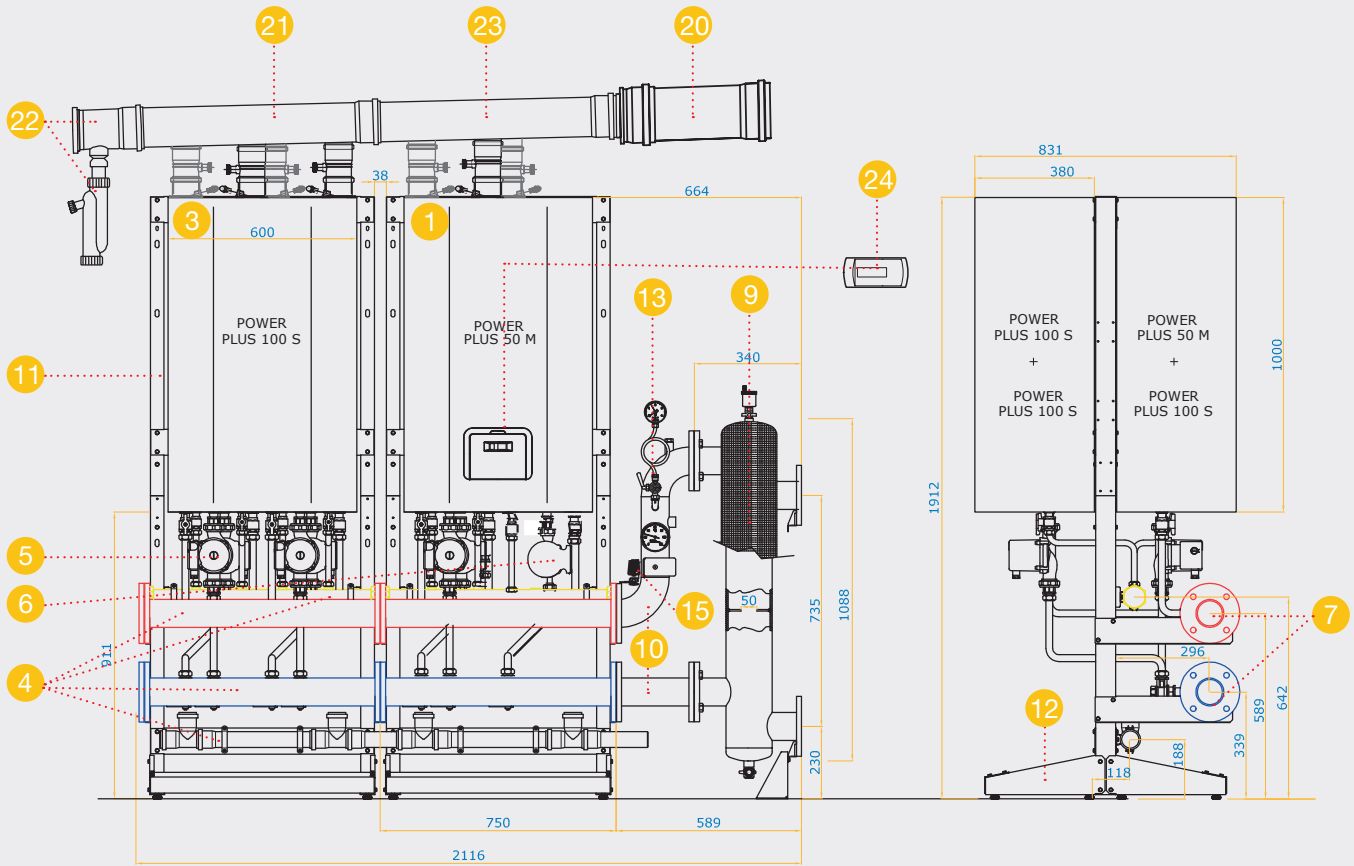
diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	2
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	4
6	20009443	Pump kit (rear) for Power Plus rig	2
9	20009467	Hydraulic header/separator - 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
12	20009474	Rear mounting kit for Power Plus free-standing rig	2

diagram ref.	code	description	quantity
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	3
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



* OPTIONAL component

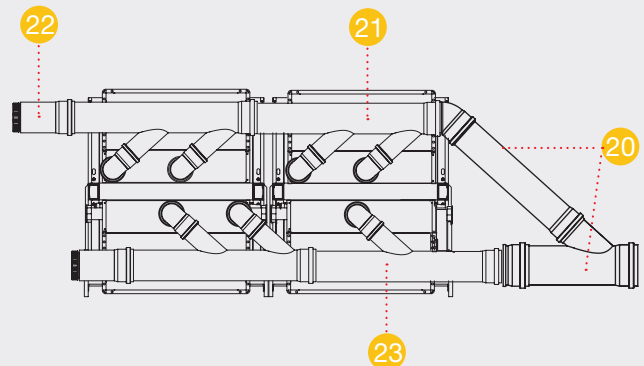
Back-to-back free-standing cascade configuration - 350 kW



This scheme has only an indication purpose

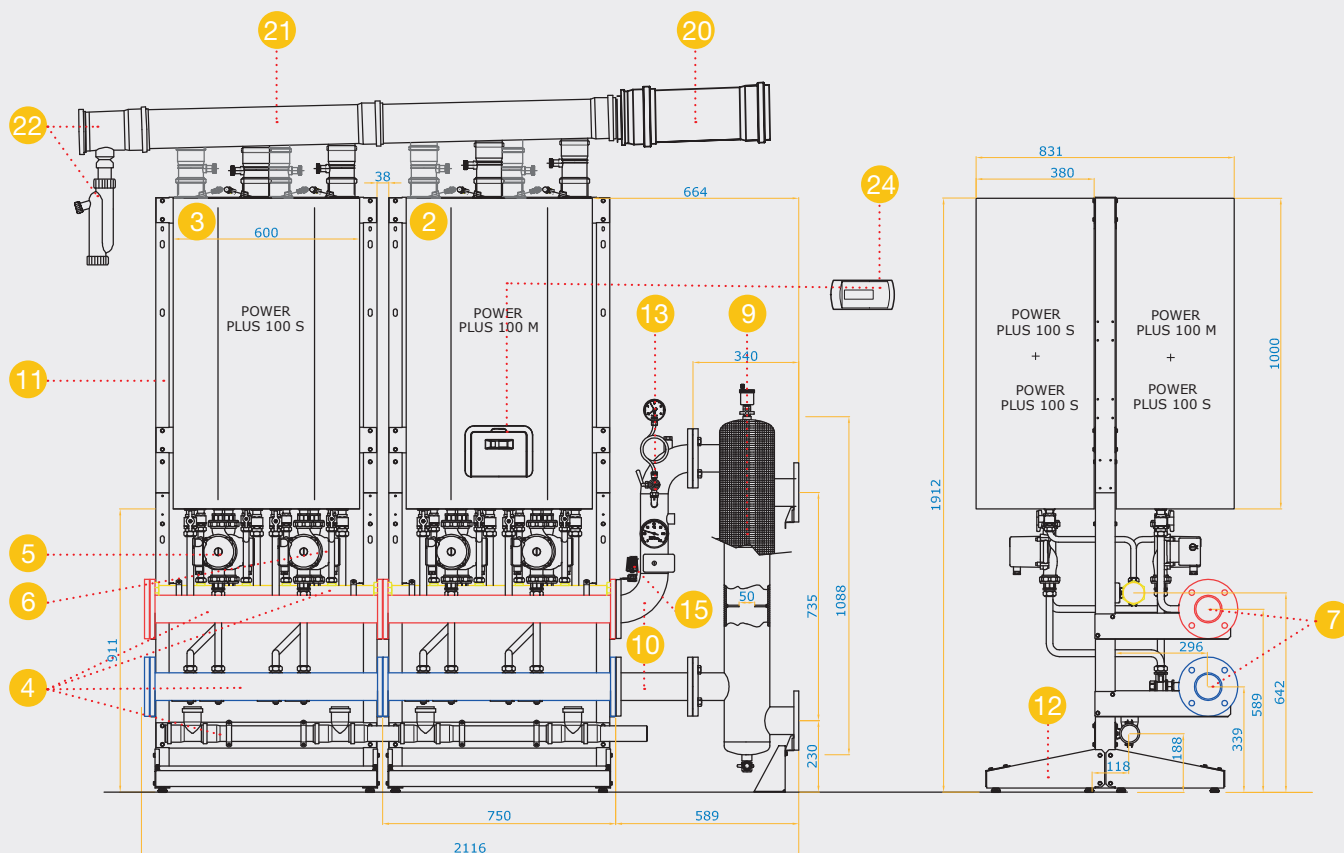
diagram ref.	code	description	quantity
BOILERS			
1	20019155	Power Plus 50 M	1
3	20019309	Power Plus 100 S	3
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	3
6	20009443	Pump kit (rear) for Power Plus rig	4
9	20009467	Hydraulic header/separator - 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
12	20009474	Rear mounting kit for Power Plus free-standing rig	2

diagram ref.	code	description	quantity
FLUES			
23	4030311	Flues collector kit Ø 125 for 50 kW	1
21	4030312	Flues collector kit Ø 125 for 100 kW	3
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



* OPTIONAL component

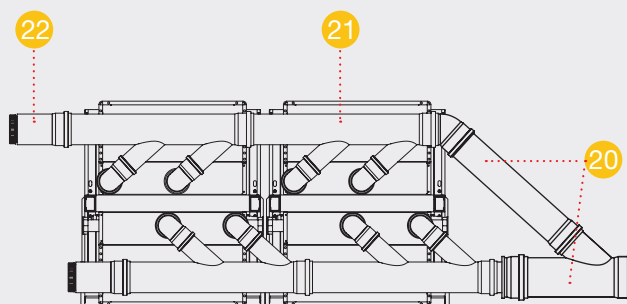
Back-to-back free-standing cascade configuration - 400 kW



This scheme has only an indication purpose

diagram ref.	code	description	quantity
BOILERS			
2	20019200	Power Plus 100 M	1
3	20019309	Power Plus 100 S	3
USER INTERFACE			
24	1102379*	Remote control	1
HYDRAULIC COMPONENTS and SAFETY DEVICES			
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig	2
7	20009444	Blank end-flange kit for hydraulic manifold	1
5	20009442	Pump kit (front) for Power Plus rig	4
6	20009443	Pump kit (rear) for Power Plus rig	4
9	20009467	Hydraulic header/separator - 250-400 kW	1
10	20009471	ISPESL hydraulic manifold	1
13	20009475*	ISPESL safety kit (400 kW max.)	1
15	20009483*	Gas safety cut-off valve (400 kW max.)	1
SUPPORTS for BACK-TO-BACK FREE-STANDING MOUNTING			
11	20009472	Power Plus rig (front mounting)	2
12	20009474	Rear mounting kit for Power Plus free-standing rig	2

diagram ref.	code	description	quantity
FLUES			
21	4030312	Flues collector kit Ø 125 for 100 kW	4
20	20017306	Flues collector kit for frontal/rear installation	1
22	4030031	Condensate drain kit Ø 125 whit tap	2



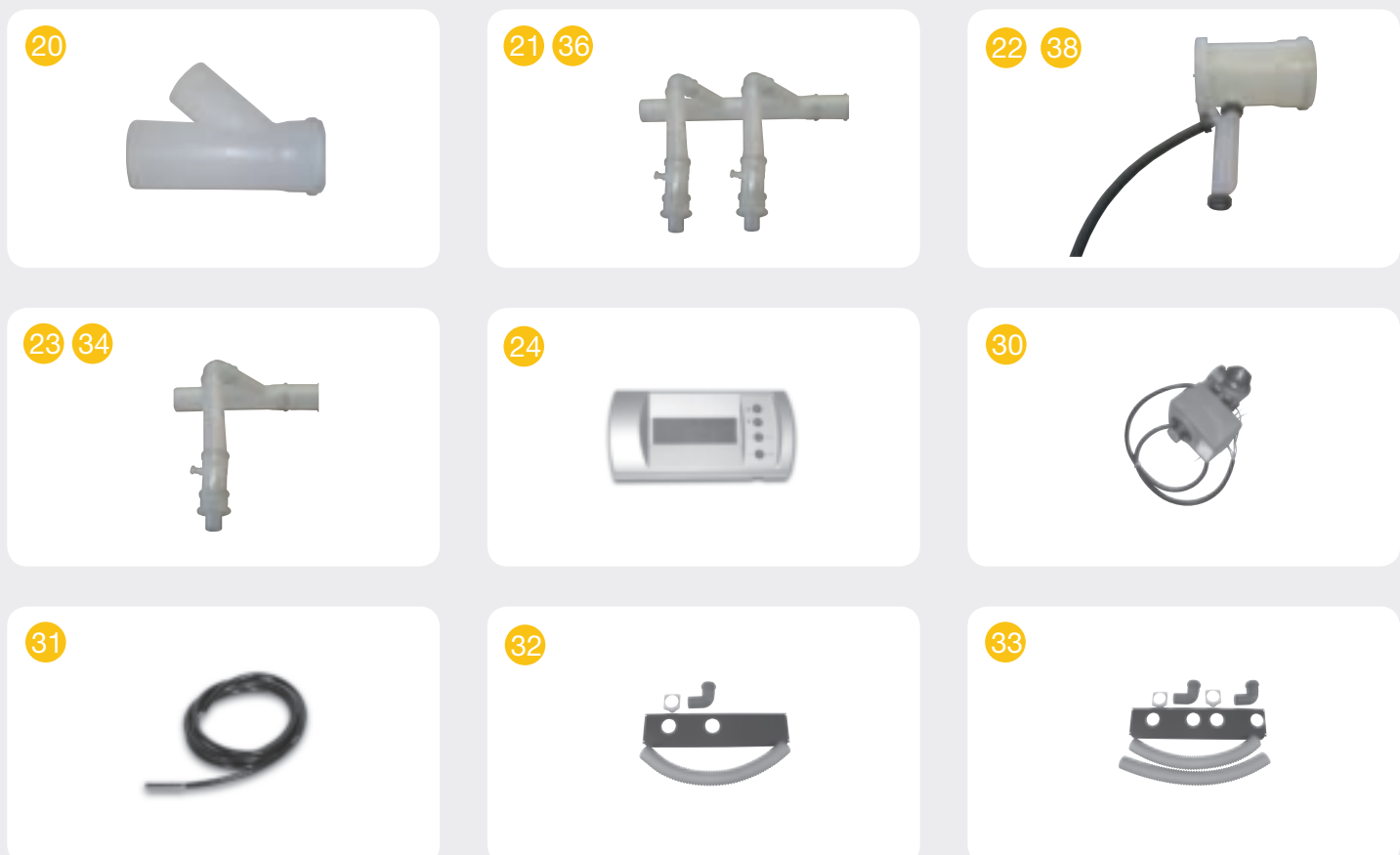
* OPTIONAL component

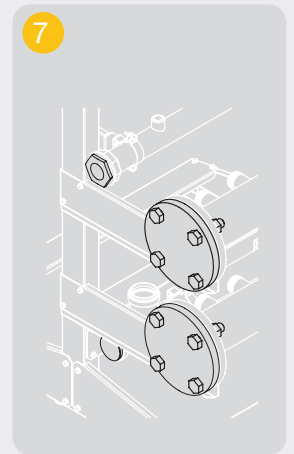
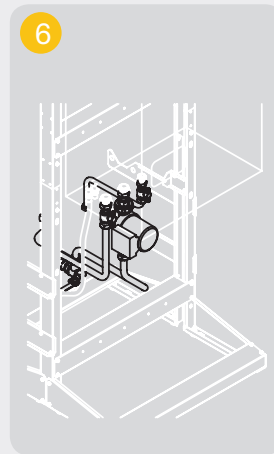
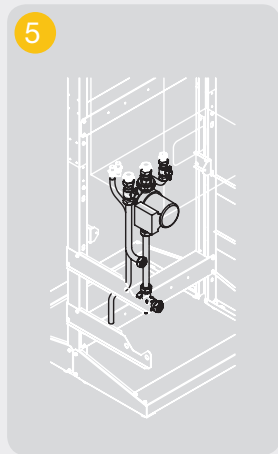
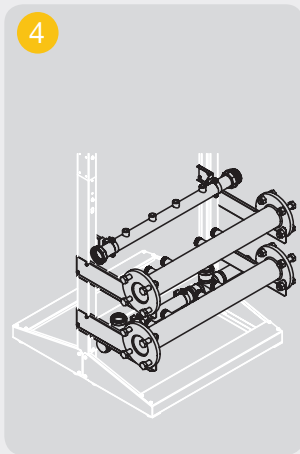
Power Plus: a right system to suit your every need

Beretta components for tailor-made installation solutions

The complete line of components and accessories developed by Beretta, here listed and shown, in addition to the configurations proposed in this guide, allow you to compose also tailor-made Power Plus cascading applications. By choosing all Beretta components, that harmonize perfectly with each other, your Power Plus system will assure you the maximum comfort and savings that are provided only by a unique specialized supplier.

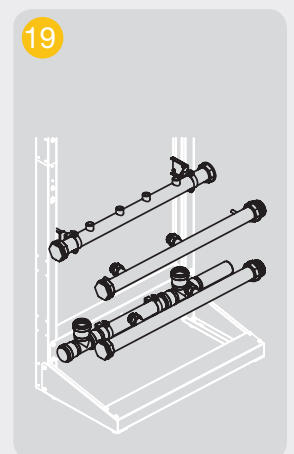
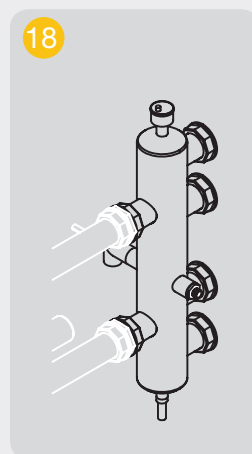
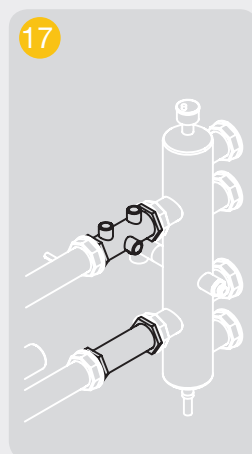
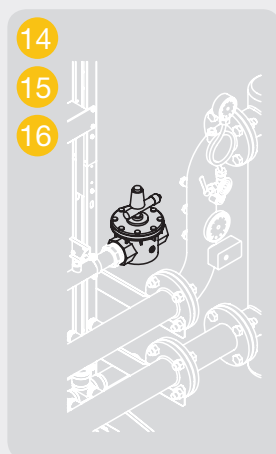
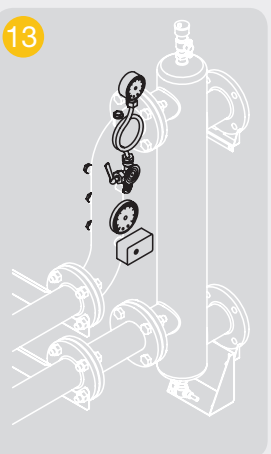
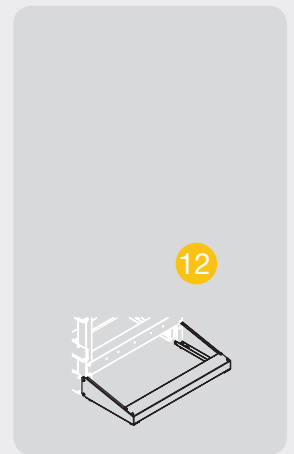
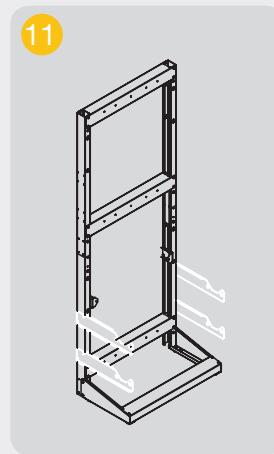
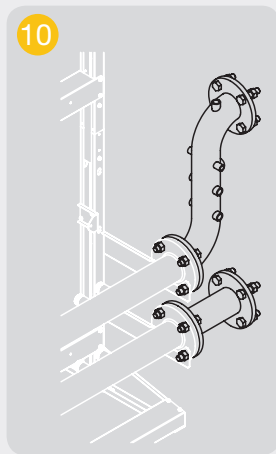
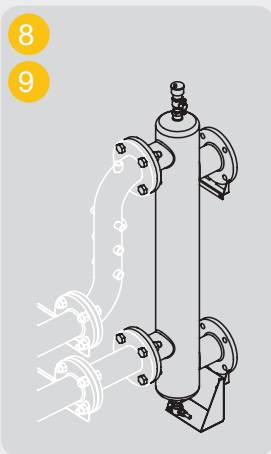
ref. code	description	ref. code	description
USER INTERFACE		SPECIFIC ACCESSORIES	
24	1102379 Remote control	_	1103469 2-ways valve kit
FLUES		32	1102439 Air connection kit to Power Plus 50 kW
23	4030311 Flues collector kit Ø 125 for 50 kW	33	1102449 Air connection kit to Power Plus 100 kW
21	4030312 Flues collector kit Ø 125 for 100 kW	30	1102869 Low temperature kit
20	20017306 Flues collector kit for frontal/rear installation	31	1103059 Probe kit for DHW tank
22	4030031 Condensate drain kit Ø 125 with tap	_	1102579 Blind flange 3"
34	4030019 Flues collector kit Ø 160 for 50 kW	_	1102589 Flange 3"
36	4030037 Flues collector kit Ø 160 for 100 kW	_	20016110 Zones Master kit
38	4030018 Condensate drain kit Ø 160 with tap		
_	1102459 Flue adapter ø 50/80		





ref. code	description	
HYDRAULIC COMPONENTS and SAFETY DEVICES		
19	20017226	Hydraulic manifold kit 100 kW for P. P. rig with blank end flange
4	20009439	Hydraulic manifold kit up to 400 kW for Power Plus rig
7	20009444	Blank end-flange kit for hydraulic manifold (400 kW)
5	20009442	Pump kit (front) for Power Plus rig
6	20009443	Pump kit (rear) for Power Plus rig
17	20017270	Connection pipes kit to hydraulic header/sep. - 100 kW
18	20017271	Hydraulic header/separator - 100 kW
8	20009466	Hydraulic header/separator - 150-200 kW
9	20009467	Hydraulic header/separator - 250-400 kW

ref. code	description	
10	20009471	ISPESL hydraulic manifold
13	20009475	ISPESL safety kit (400 kW max.)
16	20009486	Gas safety cut-off valve (100 kW max.)
14	20009482	Gas safety cut-off valve (200 kW max.)
15	20009483	Gas safety cut-off valve (400 kW max.)
SUPPORTS for LINEAR WALL-HUNG or FREE-STANDING MOUNTING		
11	20009472	Power Plus rig (front mounting)
SUPPORTS for BACK-TO-BACK MOUNTING		
12	20009474	Rear mounting kit for Power Plus free-standing rig



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