BAXI

POWER 32

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Floor standing condensing boilers heating only, with tank and solar integration

Power 32: floor standing condensing boilers heating only, with tank and solar integration

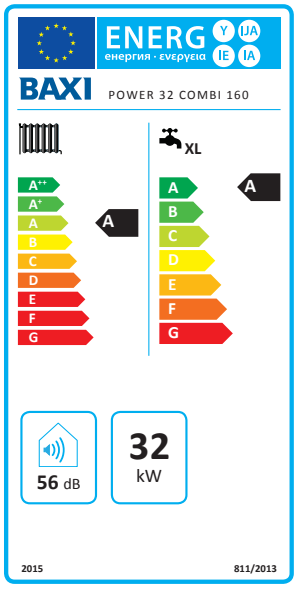
Power 32 is the new floor standing condensing range, **made of three different models** suitable for different plant needs.

Power 32 Combi 160: with a single coil 160 litres vitrified enamelled steel cylinder, for replacing an old boiler.

Power 32 Solar 220: with 220 litres vitrified enamelled stratified steel cylinder with coil exchanger for solar integration, for new installations.

In the Combi and Solar models the installation is versatile: the cylinder can be installed below the boiler or separately.

Power 1.32: for heating only, for replacing an old boiler.



The Labelling Directive (2010/30/EU) requires products to be labelled according to a decreasing efficiency band, ranging from A++ to G starting from 26/09/2015, and from A+++ to D starting from 26/09/2019.

The label is created for the final consumer to enable an informed choice about high efficiency products through true and comparable data.

Floor standing condensing boilers heating only, with tank and solar integration

Models		Maximum heating heat output		Maximum DHW heat output		Load profile
Power 32 Combi 160	heating and DHW production	32 kW	A	32 kW	A	XL
Power 32 Solar 220	heating and DHW production	32 kW	A	32 kW	A	XL
Power 1.32	heating only	32 kW	A	-	-	-

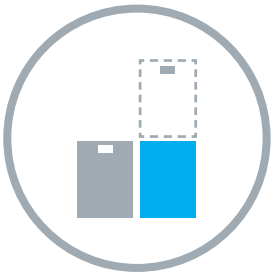
Features

GAS ADAPTIVE CONTROL (GAC)

The new POWER 32 is equipped with the Gas Adaptive Control (GAC) system, a cutting-edge electronic solution to control the gas valve, with the combustion automatic control.
The GAC allows to maintain constantly the highest level of efficiency, comparing the Ionization current with a reference value and constantly control the gas influx to have the best air / gas ratio.

MODULAION RATIO 1:10

The wide modulation ratio offers comfort, reliability and savings:
- Comfort, thanks to the adjustment of the heat output to the energy demanded by the building;
- Reliability, thanks to reduced switch-on/switch-off of the boiler and decreasing the stress of the components;
- Savings, with an annual saving of 3%, due to the better efficiency up to 108,5% and the reduced losses of the switch-on.



INSTALLATION MODULARITY

All the components for solar integration are built-in. The availability of connection kit for hydraulic installation on the right / left / above allows complete versatility in installation.

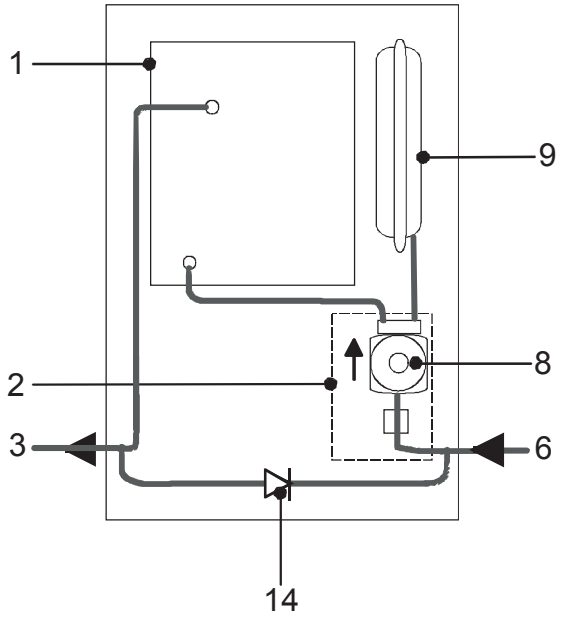
THINK REMOTE CONTROL

Usually, the control panel is placed in the upper part of the boiler. However, in the Solar model, it is possible to easily move it to the lower part, to ensure a perfect readability and accessibility. Another feature of the control panel is that it can be taken from the boiler and it can be used as room sensor for the zone to be controlled. The control is distinguished by a clear back-lighting display with 3 lines of text to allow an easy reading.

Technical data

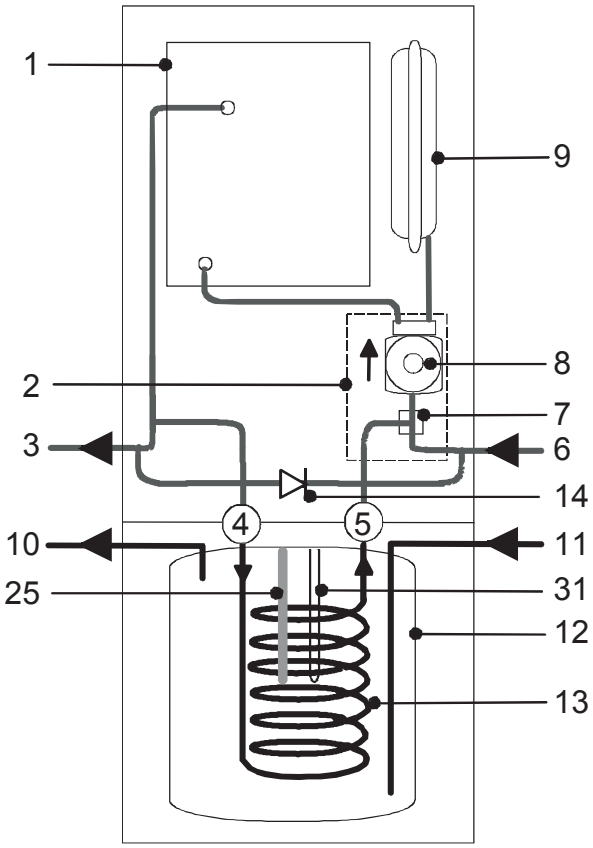
Power 1.32

Heating only



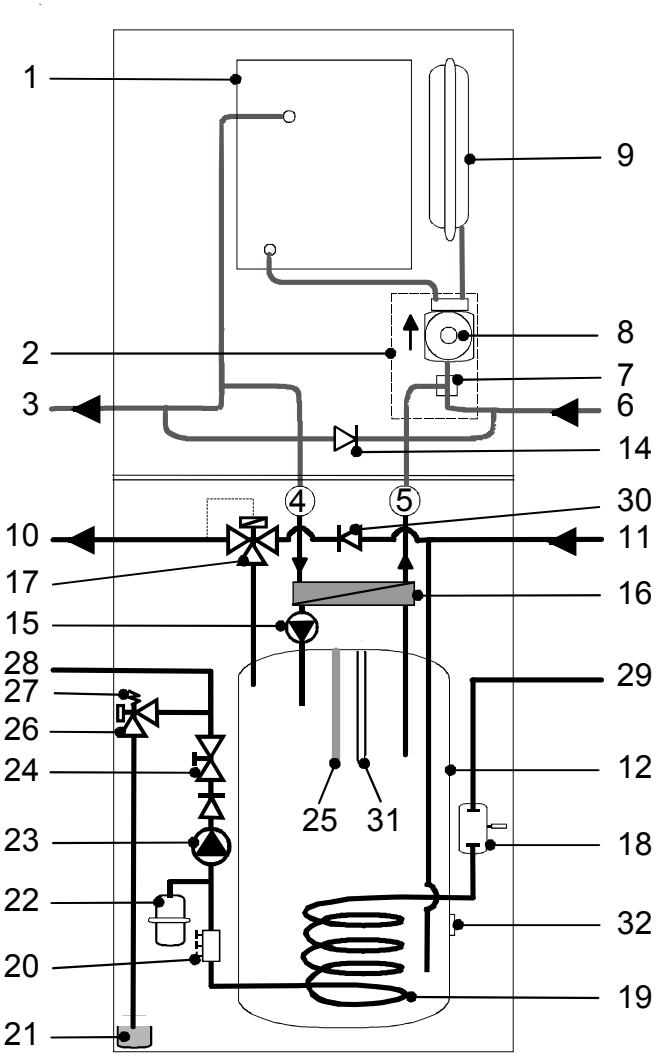
Power 32 Combi 160

Combi boiler, with 160 l cylinder



Power 32 Solar 220

Combi boiler, with with 220 l stratified cylinder for solar integration



1 Exchanger + burner
2 Hydraulic group
3 Heating system flow
4 DHW tank flow
5 DHW tank return
6 Heating system return
7 DHW 3-way valve
8 Pump
9 Expansion vessel (heating circuit)
10 DHW outlet
11 Mains water
12 DHW tank
13 DHW exchanger coil (mod. Combi)
14 By-pass valve
15 DHW pump
16 Heat exchanger
17 Thermostatic mixing
18 Solar circuit manual relief valve
19 Solar coil
20 Solar circuit load / drain
21 Glycol tank
22 Solar expansion vessel
23 Solar circuit pump
24 Globe valve with non-return valve
25 Magnesium anode
26 Manometer
27 Safety valve
28 Solar circuit flow
29 Solar circuit return
30 Non-return valve
31 DHW sensor
32 DHW sensor (solar cylinder)

Power 32

- Wide modulation ratio up to 1÷10: better efficiency and noiseless operation
- GAC (Gas Adaptive Control) system: combustion automatic control
- High efficiency full modulating circulating pump
- Vitrified enamelled stratified steel cylinder - 220 lt capacity - with coil exchanger for solar integration (mod. Solar)
- Vitrified enamelled steel cylinder - 160 lt capacity - with single coil exchanger (mod. Combi)
- Mixed system (1 high tempertature + 1 low temperature) available as optional
- Solar hydraulic group supplied with the cylinder (pump, safety valve, flow rate regulator, air vent) (mod. Solar)
- Solar expansion vessel supplied with the cylinder (mod. Solar)
- DHW expansion vessel supplied with the cylinder (mod. Combi and mod. Solar)
- Built-in exchanger-tank recirculation
- Removable control panel THINK

Hydraulic system

3 way electric diverter valve
Stainless steel premixing burner
Stainless steel heat exchanger with sound proofing composite casing
Stainless steel enhanced DHW exchanger to ensure condensation also in DHW mode
220 lt thermal stratification cylinder made of vitrified steel with solar integration through coil exchanger (mod. Solar)
Modulating fan with electronic speed adjusting system
Automatic by-pass
System to prevent pump and diverter valve sticking operating every 24 hours
Heating circuit relief valve set at 3 bar
Cylinder relief valve set at 7 bar
Circulating pump for the cylinder
Cylinder expansion vessel 8 litres
Solar expansion vessel 18 litres
Solar hydraulic group (pump, safety valve, flow rate regulator, air vent)
Thermostatic mixing valve on the DHW outlet of the cylinder
Built-in sanitary recirculation

Thermoregulation system

Built-in solar controller (pump and two temperature sensors)
Built-in climatic regulation
Control of second low temperature zone option
Room sensor, central heating and sanitary timers included in the control panel

Control system

Overheat limit thermostat for the water/flue exchanger
Hydraulic pressure switch to prevent boiler operating in the event of low water
Safety NTC sensor against flues overheat
Electronic temperatures control by NTC sensors
Anti-legionella function
Full anti-frost device
Thermometer of the cylinder
Heating circuit electronic thermometer
Heating circuit pressure gauge

		POWER 1.32	POWER 32 COMBI 160	POWER 32 SOLAR 220
Maximum heat input (DHW/heating)	kW	33	33	33
Minimum heat input	kW	3,3	3,3	3,3
Rated heat output for DHW circuit	kW	-	32	32
Rated heat output *Prated*	kW	32	32	32
Useful heat output at rated heat output and high temperature regime* P_4	kW	32	32	32
Useful heat output at 30% of rated heat output and low temperature regime** P_1	kW	5,5	5,5	5,5
Load profile		-	XL	XL
Seasonal space heating energy efficiency class		A	A	A
Water heating energy efficiency class		-	A	A
Seasonal space heating energy efficiency ηs	%	92	92	92
Useful efficiency at rated heat output and high temperature regime* $\eta 4$	%	87,9	87,9	87,9
Useful efficiency at 30% of rated heat output and low temperature regime** $\eta 1$	%	97,3	97,3	97,3
Efficiency 100% average temperature 70 °C	%	97,6	97,6	97,6
Efficiency 100% return temperature 30 °C	%	108	108	108
NOx emissions	mg/kWh	28	28	28
Minimum working temperature	°C	-5	-5	-5
Expansion vessel capacity	l	18	18	18
Solar expansion vessel capacity	l	-	-	18
Heating temperature range	°C	20-80	20-80	20-80
DHW temperature range	°C	-	35-60	35-60
DHW expansion vessel capacity	l	-	8	8
Maximum pressure heating circuit	bar	3	3	3
Maximum pressure DHW circuit	bar	7	7	7
Maximum pressure solar circuit	bar	-	-	6
Coaxial flue system Ø 60/100 max length	m	10	10	10
Dual flue system Ø 80 max length	m	80	80	80
Maximum flue mass flow rate	kg/s	0,015	0,015	0,015
Minimum flue mass flow rate	kg/s	0,002	0,002	0,002
Maximum flue temperature	°C	80	80	80
Dimensions (h x l x p)	mm	918x600x720	1742x600x723	2042x600x780
Net weight	kg	62	144	187
Gas type		Natural gas/LPG	Natural gas/LPG	Natural gas/LPG
Power consumption	W	145	145	282
Auxiliary electrical power consumption - Full load *elmax*	kW	0,075	0,075	0,075
Auxiliary electrical power - Partial load *elmin*	kW	0,015	0,015	0,015
Auxiliary electrical power - Stand-by P_{SB}	kW	0,004	0,004	0,004
Sound power level, indoor L_{WA}	dB	56	56	56
Grade of protection		IPX5D	IPX5D	IPX5D

* High temperature regime: 60°C return temperature at heater inlet and 80°C flow temperature at heater outlet
** Low temperature: 30°C return temperature (at heater inlet).

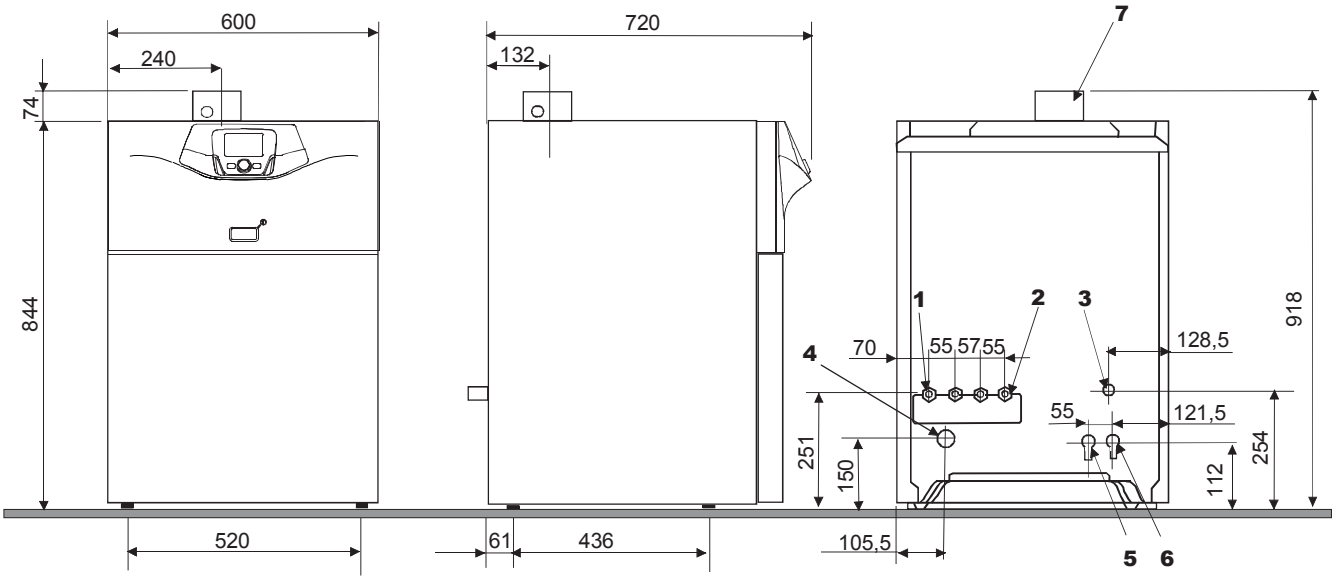
Tank technical data

		160 l (mod. Combi)	220 l (mod. Solar)
Tank capacity	l	160	220
Model		upright	
Exchange surface (boiler coil)	m²	1,1	-
Specific flow rate (EN 13203)	l/min	24,5	25
DHW production ΔT 30K	l/h	920	
Recovery time	min	23	14
Heat losses	Wh/l/°C/day	0,26	0,28
Losses ΔT= 45K	W	80	117
Maximum working pressure (DHW)	bar	10	
Relative height of the heat exchanger from the bottom: H1/total H	%	56	48
Thermostat hysteresis	°C	5	
Maximum working temperature	°C	95	
Section heated by the complementary supply - ausiliary section		-	0,34

Dimensions

Power 1.32

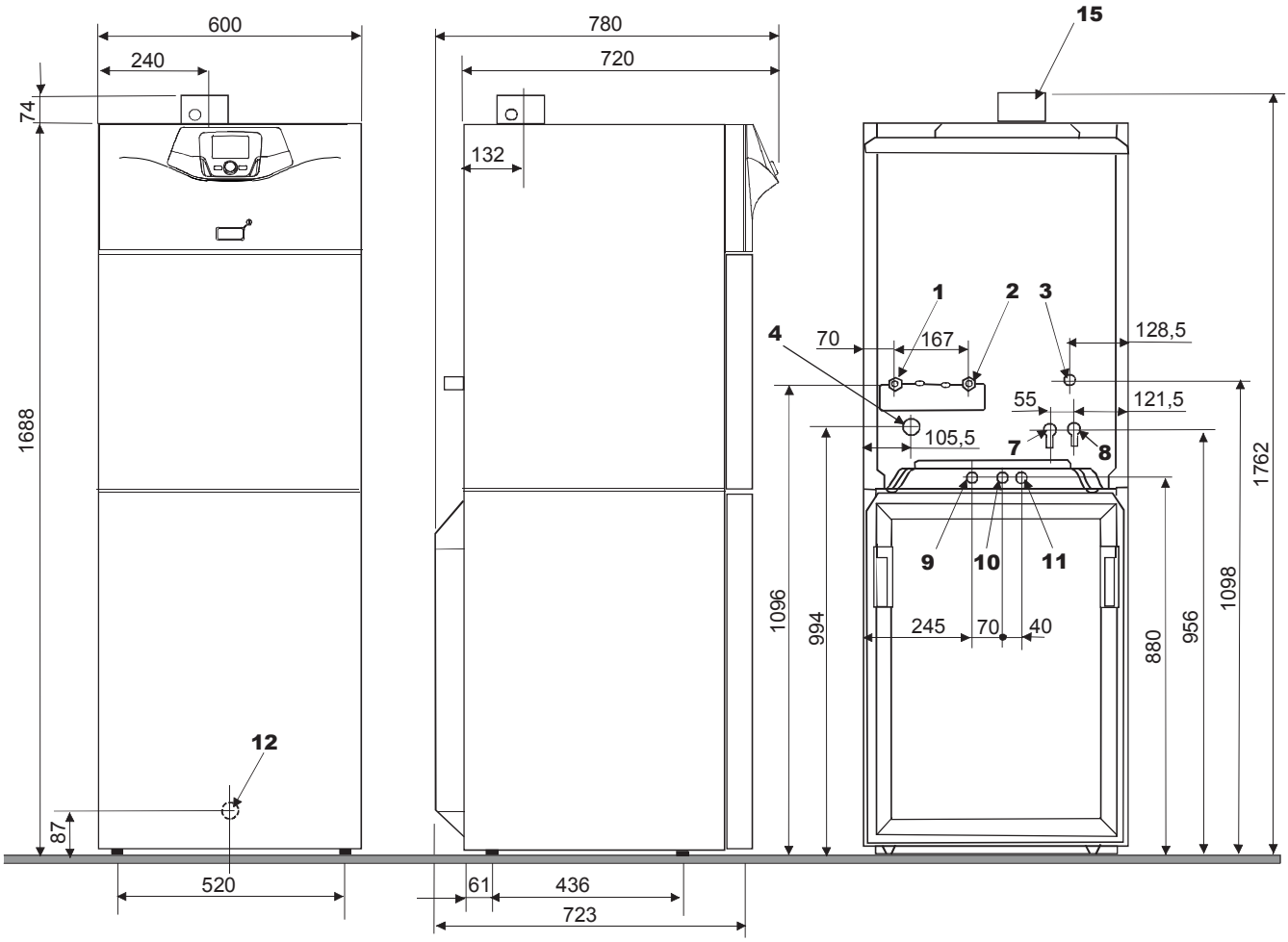
Heating only



1 Heating system return G 3/4"
2 Heating system flow G 3/4"
3 Gas inlet G 1/2"
4 Condensing trap Ø 24x19
5 2a zone flow (optional) G 3/4"
6 2a zone return (optional) G 3/4"
7 Flue Ø 60/100 - (80/125 available as accessory)

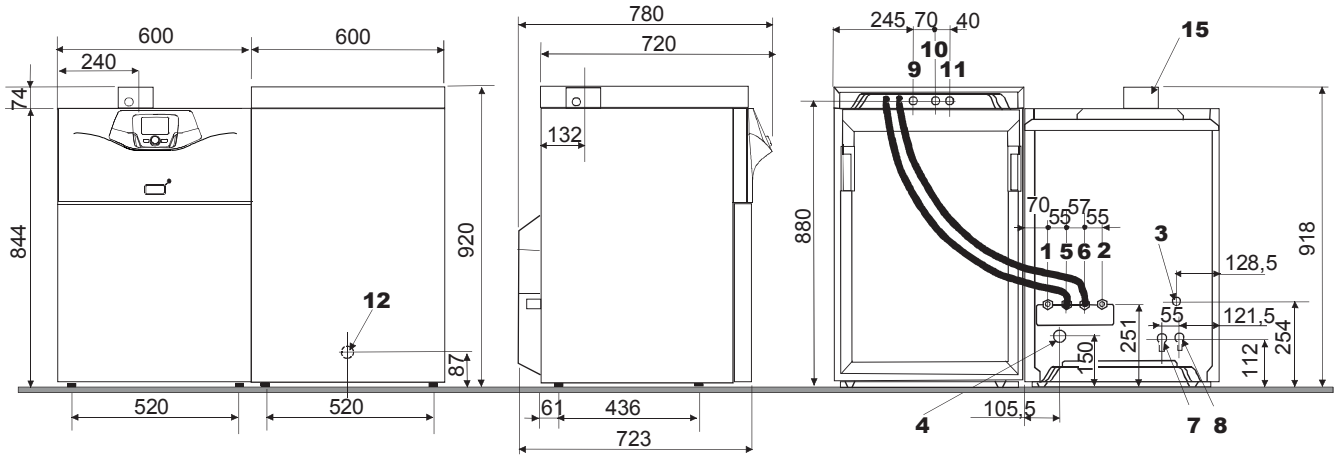
Power 32 Combi 160

Combi boiler, with 160 l cylinder in column



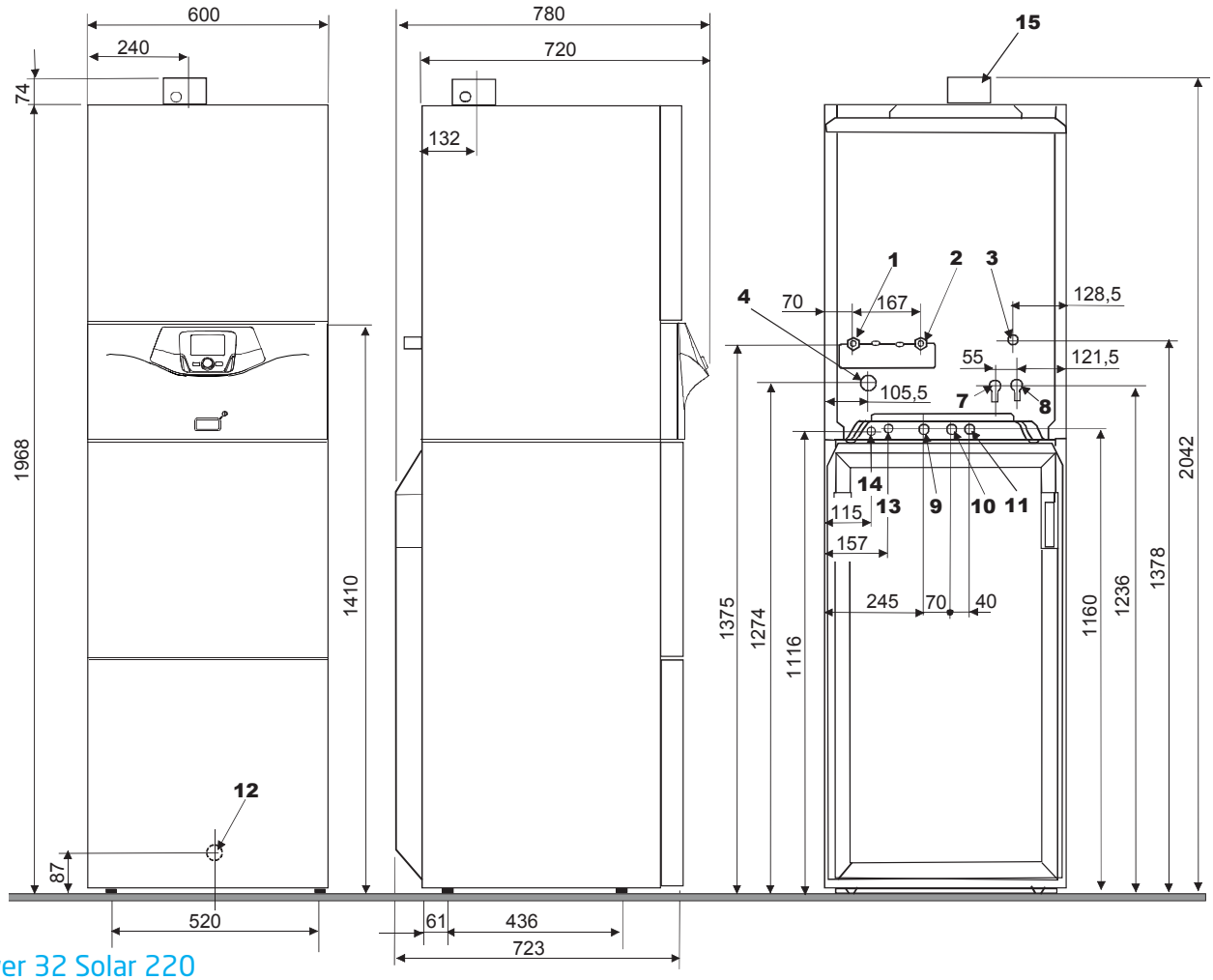
Power 32 Combi 160

Combi boiler, with 160 l cylinder beside the boiler



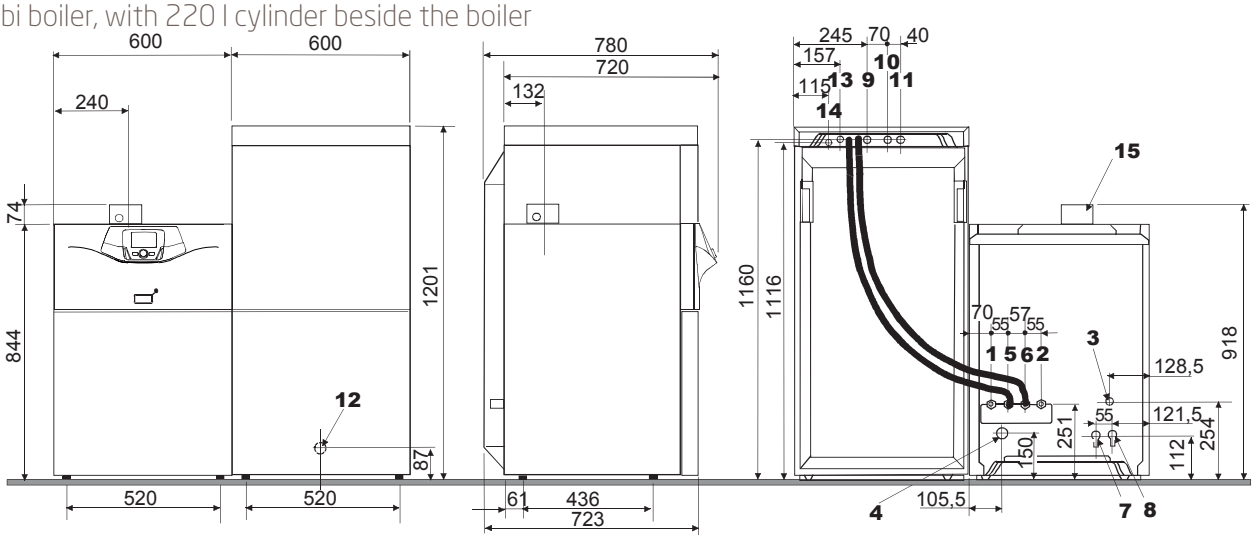
Power 32 Solar 220

Combi boiler, with 220 l cylinder in column



Power 32 Solar 220

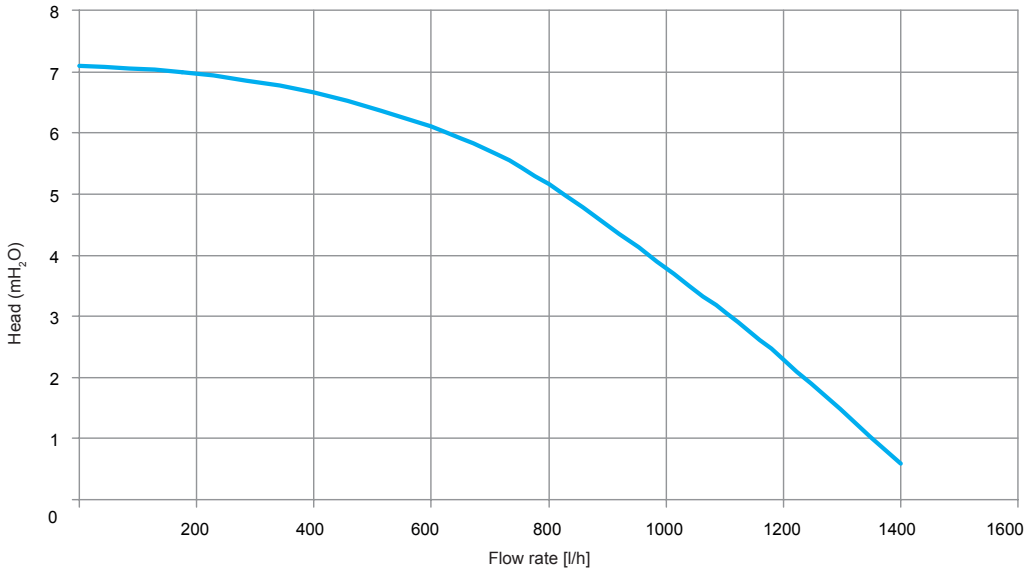
Combi boiler, with 220 l cylinder beside the boiler



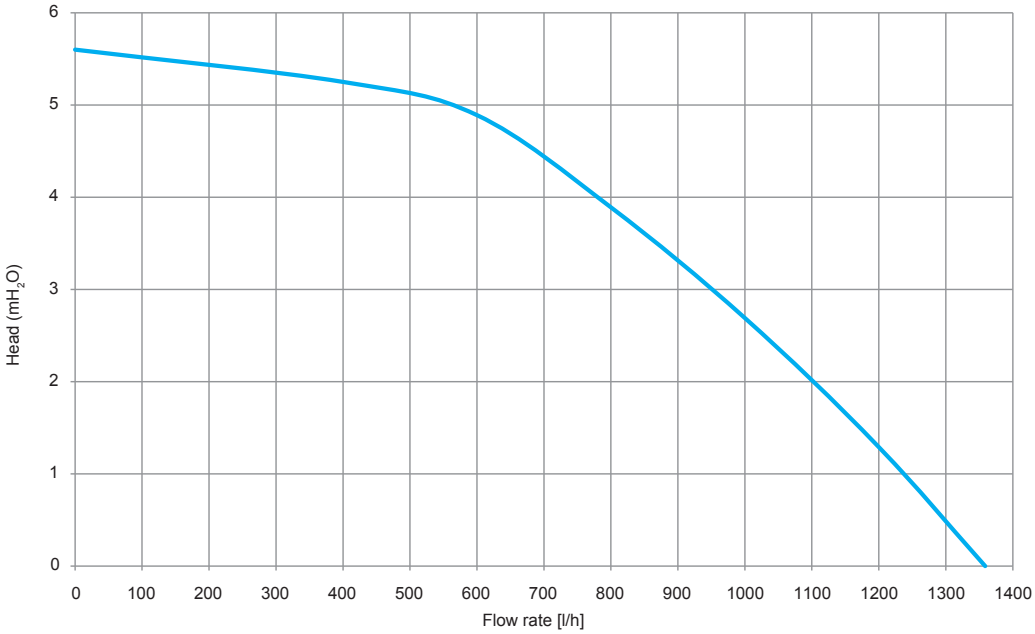
1 Heating system return G 3/4"
2 Heating system flow G 3/4"
3 Gas inlet G 1/2"
4 Condensing trap Ø 24x19
5 DHW tank return G 3/4"
6 DHW tank flow G 3/4"
7 2a zone flow (optional) G 3/4"
8 2a zone return (optional) G 3/4"
9 DHW inlet G 3/4"
10 DHW outlet G 3/4"
11 Recirculation outlet G 3/4"
12 Drain Ø 14
13 Inlet of the solar coil G 3/4"
14 Outlet of the solar coil G 3/4"
15 Flue Ø 60/100 - (80/125 available as accessory)

Curves

Boiler pump

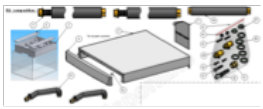
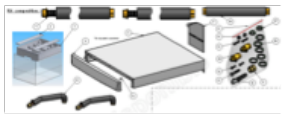


Mixing zone pump



Accessories

Flue pipe accessories		Code
	Adjustable dual flue system Ø 80	7102689

Hydraulic accessories		Code
	Right hydraulic connection kit	7213879
	Left hydraulic connection kit	7213880
	Central hydraulic connection kit	7213878
	Cover and beside hydraulic connection kit - 160 l cylinder	7213884
	Cover and beside hydraulic connection kit - 220 l cylinder	7213883
	Mixing zone kit with regulation	7648847
	Installation kit with gas and water taps, pressure gauge and flow/return connection pipes	7213881
	Central hydraulic connection kit - heating only model	7213885
	Indirect cylinders connection kit - heating only model	7656332

Quality
Environment
Safety

are Baxi strategic aims and the awarded certifications ensure compliance with the specific regulations

BAXISPA

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