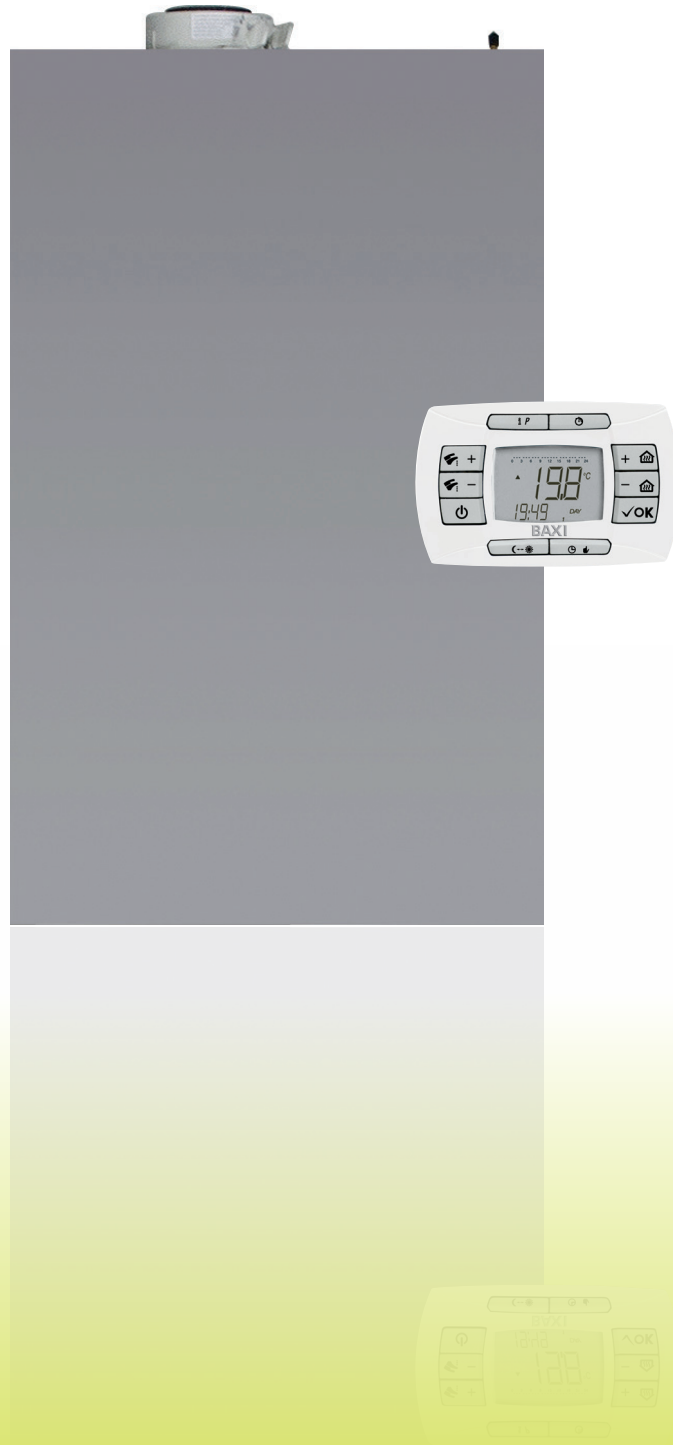


Solutions for outdoor wall-hung and built-in installations

Luna IN Plus and Luna Air

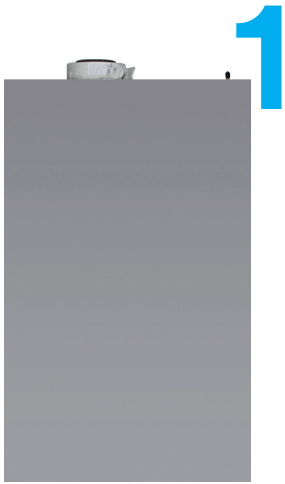


Solutions for outdoor wall-hung and built-in installations

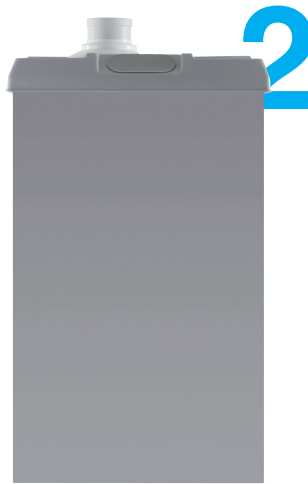


Luna IN PLUS and Luna Air are the ranges of wall hung condensing boilers ideal for outdoor installations.

It is possible to realize **three different installations**: wall hung installation in partially protected places; open air wall hung installation with cover kit; built-in installation with dedicated retaining case.



Outdoor hanging installation, in partially protected places.



Outdoor, open-air installation (with cover kit)



Outdoor built-in installation

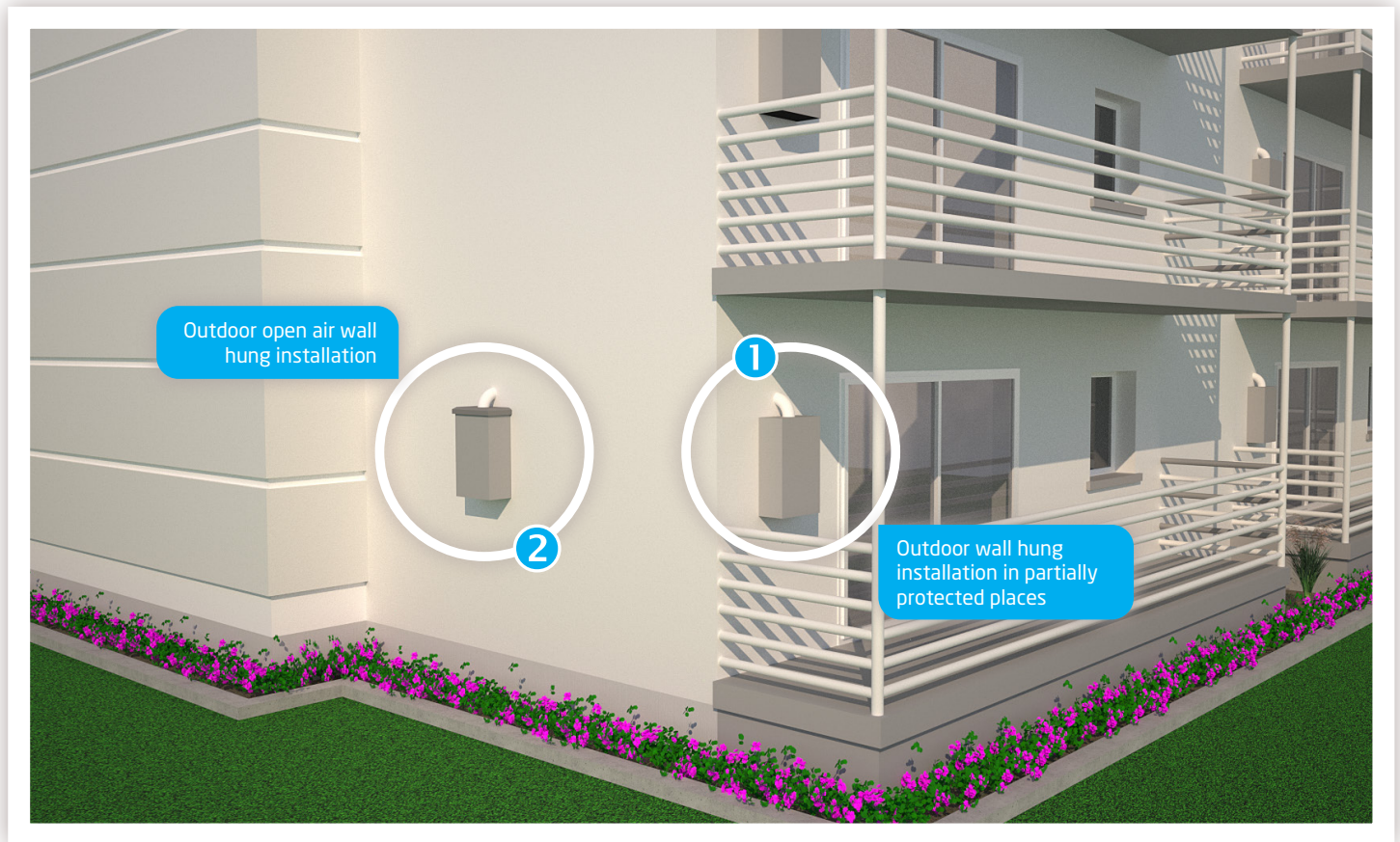
Condensing boilers for outdoor and built-in installation

Luna Air		Maximum heat input (heating)		Maximum heat input (DHW)		Load profile
28	Combi	24 kW	A	28 kW	☞ A	XL
24	Combi	20 kW	A	24 kW	☞ A	XL

Premium condensing boilers for outdoor and built-in installation

Luna IN Plus		Maximum heat input (heating)		Maximum heat input (DHW)		Load profile
30	Combi	24	A	30	☞ A	XL
26	Combi	20	A	26	☞ A	XL
1.24	Heating only	24	A	-	☞ A	-

Outdoor wall-hung installation



Luna Air and Luna IN Plus are the ideal boilers for outdoor wall hung installation: in **partially protected places** (e.g. balcony) and also **in the open air, with the addition of outdoor cover kit**.

To facilitate the hanging installation, the telescopic connection pipes kit (with gas and DHW tap) is available as accessory. The template and the hooking bracket for wall-mounted installation are inside the packaging.

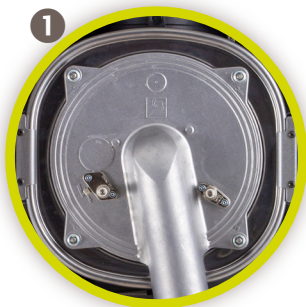
Built-in installation

Luna Air and Luna IN Plus can also be installed **built-in** with the specific **dedicated retaining case**, available as an accessory.

The telescopic connection pipes kit with gas tap and sanitary water (supplied as an accessory) must also be provided for built-in installation. The bracket for inserting boiler in the dedicated retaining case is supplied inside the packaging.



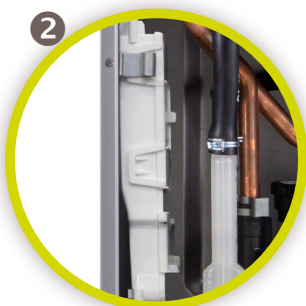
Luna Air: technical features



Stainless steel exchanger



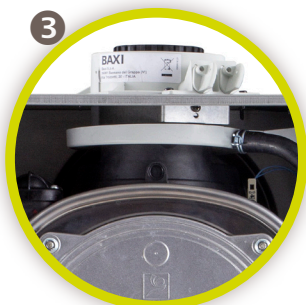
Heating expansion vessel



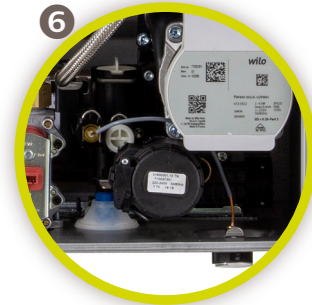
Control panel with LCD display



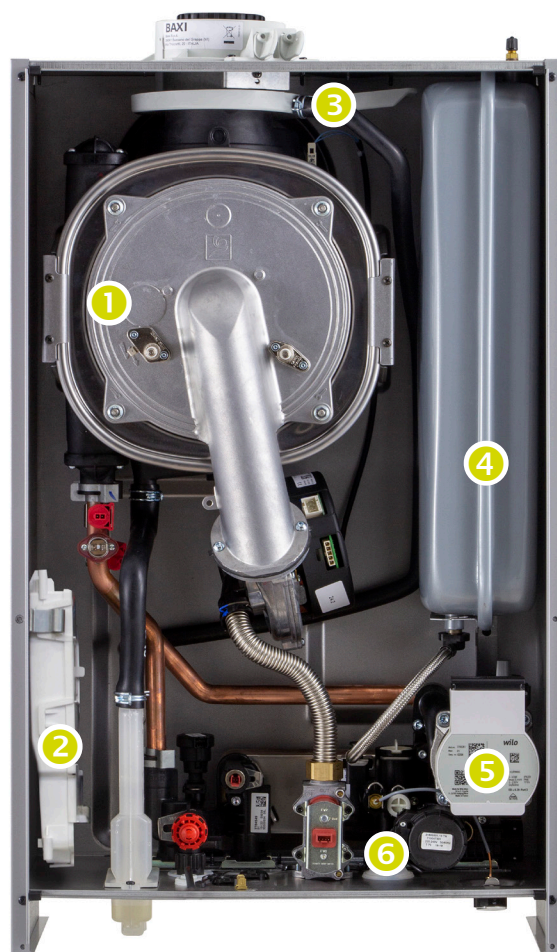
High efficiency pump with total modulation



Condensate collector on intake side



3-way valve on heating return



Luna Air and Luna IN Plus



Hydraulic system

- 3-way electric diverter valve
- Stainless steel premixing burner
- Stainless steel water/flue heat exchanger
- Stainless steel enhanced DHW exchanger to ensure condensation also in DHW mode
- Modulating fan with electronic speed adjusting system
- Automatic by-pass
- High efficiency full modulating pump
- System to prevent pump and diverter valve sticking operating every 24 hours
- Heating circuit relief valve set at 3 bar

Thermoregulation system

- Room sensor, heating circuit and sanitary timers included in the remote control panel
- Built-in climatic regulation (outdoor sensor available as optional)

Control system

- Overheat limit thermostat of the water/flue exchanger
- Hydraulic pressure switch to prevent boiler operating in event of low water
- Safety NTC sensor against flues overheat
- Electronic temperatures control by NTC sensors
- Full anti-frost device
- Electronic thermometer
- Digital heating circuit pressure gauge

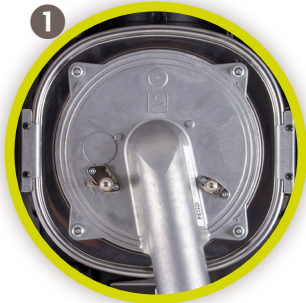
Luna Air

- Digital remote control panel with LCD display supplied as STANDARD
- **Wall-hung installation in partially protected places**
- **Open-air wall-hung installation (with cover kit available as an accessory)**
- **Electrogalvanized cover for outdoor use**
- Minimum operating temperature: -15°C
- Anti-frost function and grade of protection IPX5D
- Wide modulation range 1:7 greater efficiency and silent operation
- GAC (gas adaptive control); automatic combustion control
- **Built-in installation:** thanks to its ultra-compact dimensions (770x470x238 mm) Luna Air can be installed in most retaining cases on the market; the telescopic connection pipes kit for built-in installation is available as optional
- Integration with solar system option
- **Connection to rigid and flexible Ø 50 mm flue pipe: solution for chimney refurbishment and replacement of an existing open flue gas boiler, 40 m max length (mod. 24 kW)**

		Combi	
		28	24
Maximum heat input (DHW)	kw	28,9	24,7
Maximum heat input (heating)	kw	24,7	20,6
Minimum heat input	kw	3,9	3,5
Rated heat output for DHW circuit	kw	28	24
Rated heat output <i>Prated</i>	kw	24	20
Useful heat output at rated heat output and high temperature regime* P_4	kw	24	20
Useful heat output at 30% of rated heat output and low temperature regime** P_1	kw	8	6,7
Load profile		XL	XL
Seasonal space heating energy efficiency class		A	A
Water heating energy efficiency class		A	A
Seasonal space heating energy efficiency η_s	%	93	93
Water heating energy efficiency η_{wh}	%	86	88
Useful efficiency at rated heat output and high temperature regime* η_4	%	87,9	88
Useful efficiency at 30% of rated heat output and low temperature regime** η_1	%	98	98
Efficiency P_n (lower calorific value) - average temperature 70 °C	%	97,6	97,7
Efficiency 30% (lower calorific value) - return temperature 30 °C	%	108,8	108,8
Efficiency Intermediate (lower calorific value) - average temperature 70 °C	%	98	98,1
NOx emissions	mg/kWh	17	15
Minimum working temperature	°C	-15	-15
Expansion vessel capacity	l	8	8
Heating temperature range	°C	25-80	25-80
DHW temperature range	°C	35-60	35-60
Specific flow (EN 13203-1)	l/min	13,4	11,5
DHW production ΔT 25°C ⁽¹⁾	l/min	16,1	13,8
Minimum capacity DHW flow rate	l/min	2	2
Minimum pressure heating circuit	bar	0,5	0,5
Minimum pressure DHW circuit	bar	0,15	0,15
Maximum pressure heating circuit	bar	3	3
Maximum pressure DHW circuit	bar	8	8
Coaxial flue system Ø 60/100 max length	m	10	10
Dual flue system Ø 80 max length	m	80	80
Maximum flue mass flow rate	kg/s	0,014	0,012
Minimum flue mass flow rate	kg/s	0,002	0,002
Maximum flue temperature	°C	80	80
Dimensions (h x w x d) - boiler	mm	770x470x238	
Dimensions (h x w x d) - with case	mm	1170x600x245	
Net weight	kg	32,5	32,5
Gas type		Natural gas/LPG	
Rated power supply	W	99	85
Auxiliary electrical power consumption - Full load elmax	kw	0,042	0,030
Auxiliary electrical power - Partial load elmin	kw	0,013	0,013
Auxiliary electrical power - Stand-by P_{SB}	kw	0,003	0,003
Sound power level, indoor L_{WA}	dB	50	49
Grade of protection		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)
 (1) without flow restrictor

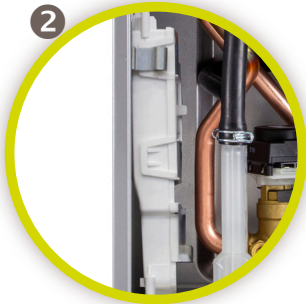
Luna IN Plus: technical features



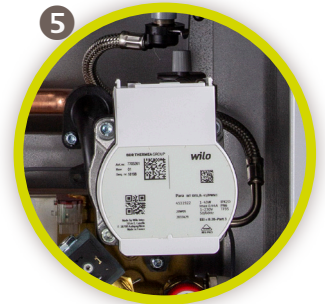
Stainless steel exchanger



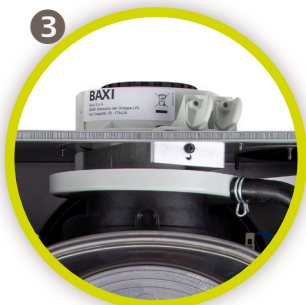
Heating expansion vessel



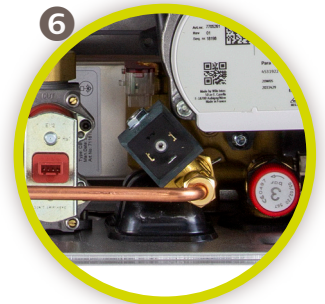
Control panel with LCD display



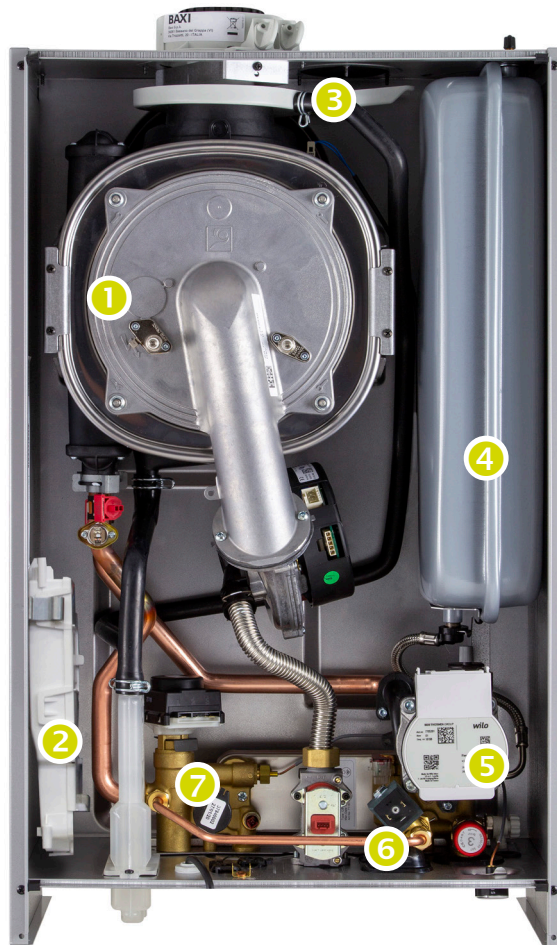
High efficiency pump with total modulation



Condensate collector on intake side



Automatic filling system; 3-way valve on heating return



Brass hydraulic group

Luna Air and Luna IN Plus



Hydraulic system

- 3 way electric diverter valve (also heating only models)
- Stainless steel premixing burner
- Stainless steel water/flue heat exchanger
- Stainless steel enhanced DHW exchanger to ensure condensation also in DHW mode
- Modulating fan with electronic speed adjusting system
- Automatic by-pass
- High efficiency full modulating pump
- System to prevent pump and diverter valve sticking operating every 24 hours
- Safety valve set at 3 bar

Thermoregulation system

- Room sensor, heating and DHW control integrated in the remote control
- Built-in climatic regulation (outdoor sensor available as optional)
- Control of multi-zones system option

Control system

- Overheat limit thermostat of the water/flue exchanger
- Hydraulic pressure switch to prevent boiler operating in event of low water
- Safety NTC sensor against flues overheat
- Electronic temperatures control by NTC sensors
- Full anti-frost device
- Electronic thermometer
- Digital heating circuit pressure gauge

Luna IN Plus

- Digital remote control panel with LCD display supplied AS STANDARD
- **Multi-zones system connection**
- **Built-in installation:** thanks to its ultra-compact dimensions (770x470x238 mm) Luna IN Plus can be installed in most retaining cases on the market
- **Telescopic connectionpipes kit for built-in installation** supplied AS STANDARD
- **Automatic filling system**
- **Electrogalvanized cover for outdoor use**
- Minimum working temperature: -15°C
- Anti-frost function and grade of protection IPX5D
- Wide modulation range 1:7 greater efficiency and silent operation
- Gas Adaptive Control (GAC) system: combustion automatic control
- **Outdoor wall hung installation in partially protected places** with telescopic connections kit (gas tap/DHW tap) available as optional
- **Open-air wall-hung installation** (with cover kit available as an accessory)
- Integration with solar system option
- **Connection to rigid and flexible Ø 50 mm flue pipe:** solution for chimney refurbishment and replacement of an existing open flue gas boiler, 40 m max length (mod. 24 kw)

		Combi		Heating only
		30	26 ⁽²⁾	1,24
Maximum heat input (DHW)	kW	30	26,8	-
Maximum heat input (heating)	kW	24,7	20,6	24,7
Minimum heat input	kW	3,9	3,9	3,5
Rated heat output for DHW circuit	kW	29	26	-
Rated heat output <i>Rated</i>	kW	24	20	24
Useful heat output at rated heat output and high temperature regime* P_4	kW	24	20	24
Useful heat output at 30% of rated heat output and low temperature regime** P_3	kW	8,1	6,7	8
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 η_s	%	94	94	93
Water heating energy efficiency η_{wh}	%	87	87	-
Useful efficiency at rated heat output and high temperature regime* η_4	%	87,9	88	87,9
Useful efficiency at 30% of rated heat output and low temperature regime** η_3	%	98,8	98,9	98
Efficiency P_n (lower calorific value) - average temperature 70 °C	%	97,6	97,7	97,6
Efficiency 30% (lower calorific value) - return temperature 30 °C	%	108,8	108,8	108,8
Efficiency Intermediate (lower calorific value) - average temperature 70 °C	%	98	98,1	98
NOx emissions	mg/kWh	17	15	16
Minimum working temperature	°C	-15	-15	-15
Expansion vessel capacity	l	8	8	8
Heating temperature range	°C	25-80	25-80	25-80
DHW temperature range	°C	35-60	35-60	-
Specific flow (EN 13203-1)	l/min	14	12,4	-
DHW production ΔT 25°C ⁽¹⁾	l/min	16,6	14,9	-
Minimum capacity DHW flow rate	l/min	2	2	-
Minimum pressure heating circuit	bar	0,5	0,5	0,5
Minimum pressure DHW circuit	bar	0,15	0,15	-
Maximum pressure heating circuit	bar	3	3	3
Maximum pressure DHW circuit	bar	8	8	-
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	0,014	0,013	0,012
Minimum flue mass flow rate	kg/s	0,002	0,002	0,002
Maximum flue temperature	°C	80	80	80
Dimensions (h x w x d) - boiler	mm	1170x600x245		
Dimensions (h x w x d) - with case	mm	770x470x238		
Net weight	kg	32,5	32,5	28,5
Gas type		Natural gas/LPG		
Rated power supply	W	104	87	85
Auxiliary electrical power consumption - Full load elmax	kW	0,042	0,030	0,042
Auxiliary electrical power - Partial load elmin	kW	0,013	0,013	0,013
Auxiliary electrical power - Stand-by P_{SB}	kW	0,003	0,003	0,003
Sound power level, indoor L_{WA}	dB	48	49	52
Grade of protection		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)
 (1) without flow restrictor

Features

1:7

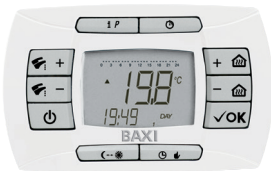
Wide modulation range

With a high modulation ratio, the **reduction of switching on/off cycles** leads to a **greater efficiency**, significant **reductions in consumption** (by 8-10%) and in polluting emissions.

GAC

Gas Adaptive Control

Innovative system that automatically detects the kind of gas and continuously adjusts the the gas-to-air ratio for the highest quality combustion without any other components/ transformation kit required.



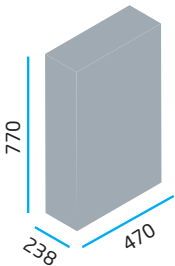
Digital control panel

Digital control panel that allows **easy programming and immediate diagnostics** of boiler operation with recording of the latest anomalies (AS STANDARD).



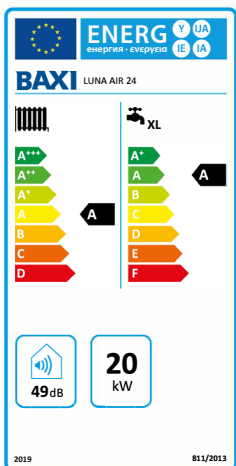
Anti-frost function

The boiler has been designed to operate up to **-15°C**. In addition, the **anti-frost function**, provides for the automatic ignition of the burner avoiding ice formation.



Compact dimensions

238-mm depth that allows an easy replacement of old boilers in existing case and to fit small to medium-sized apartments installation requirements.



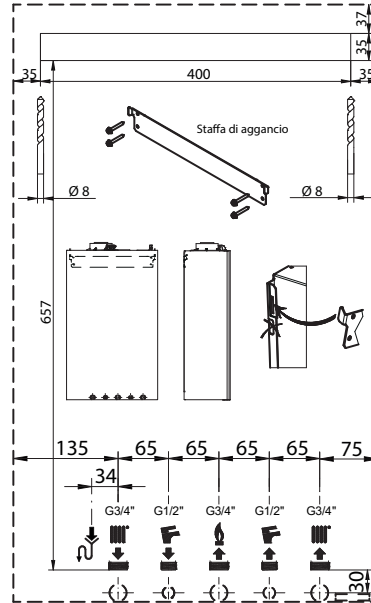
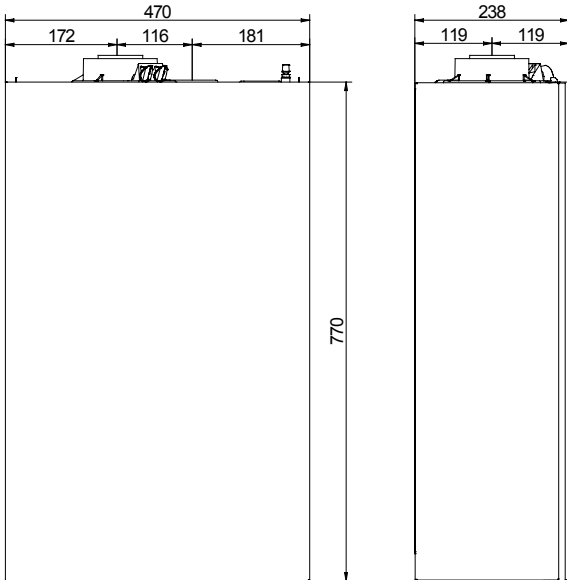
ErP Energy Labelling

The labeling regulation (EU Regulation 2017/1369) requires products to be labeled according to a descending energy scale ranging from A+++ to D (in heating) and from A+ to F (in sanitary).

The energy class, identified by a letter, expresses a range of efficiency values within which lies that expressed by the product under consideration. The label was created to allow the final consumer, by providing true and comparable data, to make informed choices addressing high efficiency products.

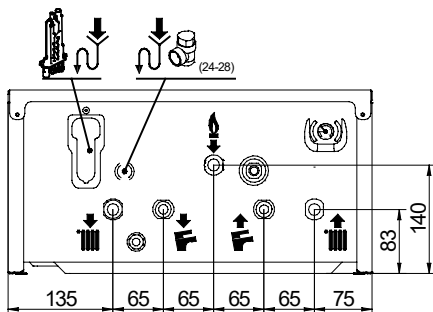
Luna Air and Luna IN Plus are labelled **class A** in heating and sanitary.

Technical drawings Wall-hung installation



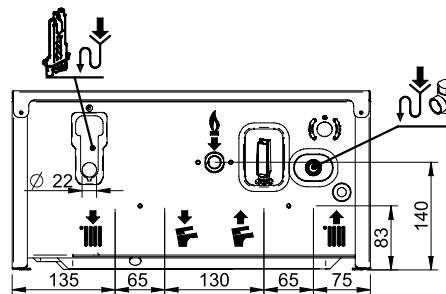
The template and the mounting bracket for wall hung installation are supplied with the boiler

Luna Air



	Condensate drain
	Safety valve drain
	Heating system flow (G3/4")
	DHW outlet (G1/2")
	GAS inlet (G3/4")
	Cold water inlet / Circuit filling (G1/2")
	Heating system return (G3/4")

Luna IN Plus



	Condensate drain
	Safety valve drain
	Heating system flow (G3/4")
	DHW outlet (G1/2") mod. 24 and 28 / cylinder (G3/4") mod. 1.24
	GAS inlet (G3/4")
	Cold water inlet / Circuit filling (G1/2")
	Heating system return (G3/4")

Accessories for Luna Air and Luna IN Plus

Accessories for wall mounted installation



Telescopic connection pipes kit
(with gas and DHW taps)

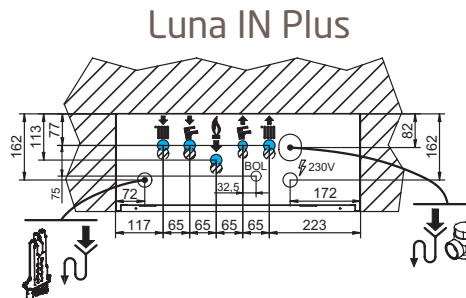
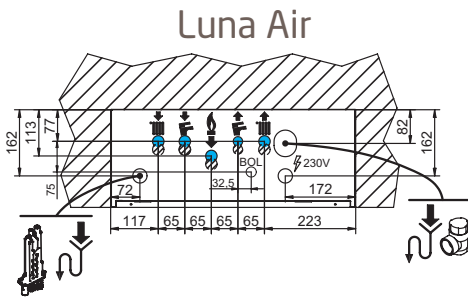
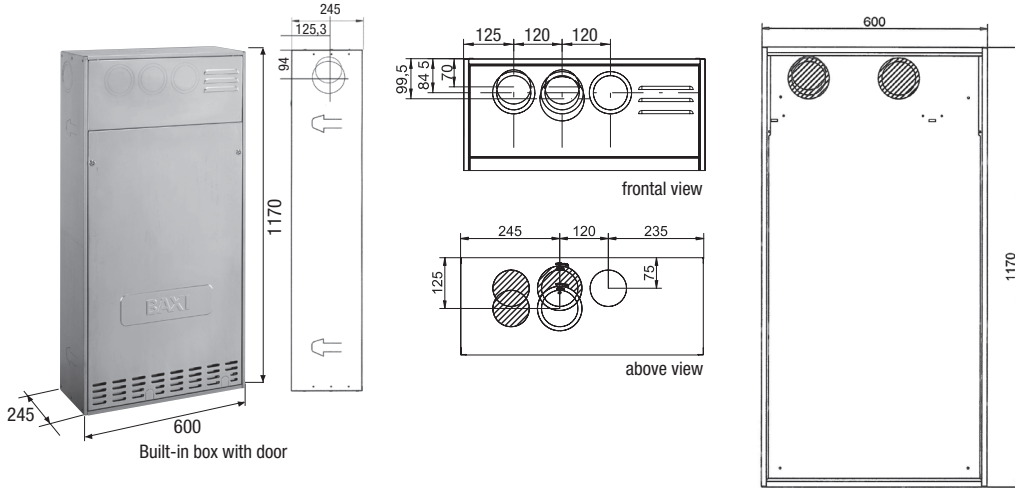
Cod.
7106980



IN-Air outdoor cover kit
(includes flue system kit and sealing collar)
FOR OPEN AIR INSTALLATION

Cod.
A7718787

Technical drawings Built-in installation



	Condensate drain
	Safety valve drain
	Heating system flow (G3/4")
	DHW outlet (G1/2")
	GAS inlet (G3/4")
	Cold water inlet / Circuit filling (G1/2")
	Heating system return (G3/4")

	Condensate drain
	Safety valve drain
	Heating system flow (G3/4")
	DHW outlet (G1/2") mod. 24 and 28 / cylinder (G3/4") mod. 1.24
	GAS inlet (G3/4")
	Cold water inlet / Circuit filling (G1/2")
	Heating system return (G3/4")

Accessories for Luna Air and Luna IN Plus

Accessories for built-in installation



Built-in box with door
For Luna IN Plus and Luna Air

Code
KHG 71410991



Frame kit
(to be ordered with code KHG 71410991 - to replace Luna3
Comfort IN models or if needed)
For Luna IN Plus and Luna Air

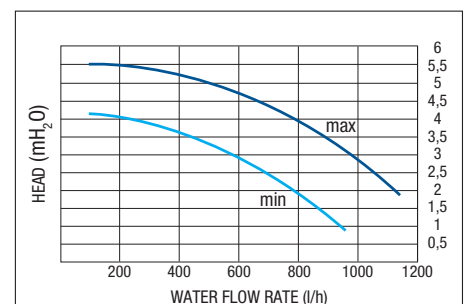
Code
7225016



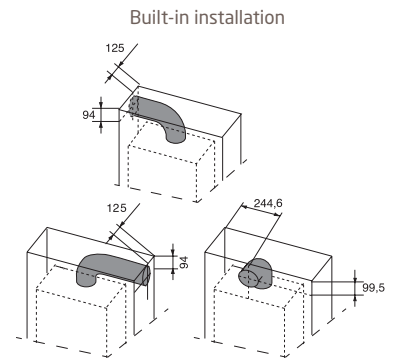
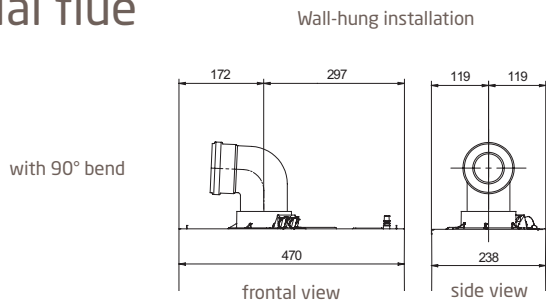
Built-in telescopic connection pipes kit
(gas and DHW taps)
For Luna Air (the kit is supplied with Luna IN Plus)

Code
A7736310

Pump graph - Luna Air and Luna IN Plus



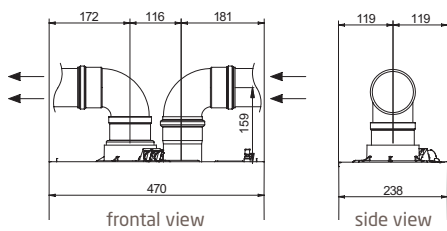
Flue system Coaxial flue



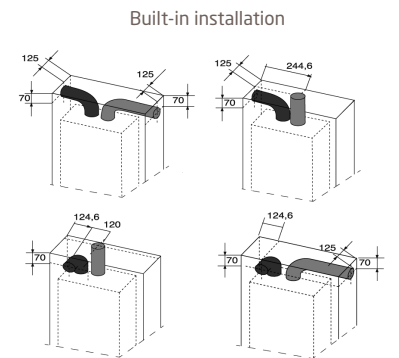
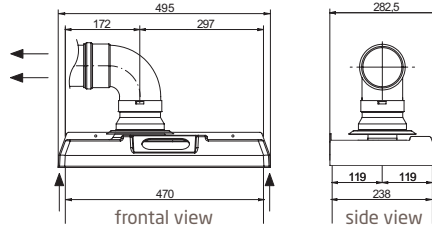
Models	Max duct length (m)		Length reduction for 90° bend insertion (m)	Length reduction for 45° bend insertion (m)
	Ø 60/100	Ø 80/125		
Luna Air / Luna IN Plus	10	25	1	0,5

Dual flue

Wall-hung installation - PARTIALLY PROTECTED PLACES



Wall-hung installation - OPEN AIR



Models	RIGID FLUE PIPE								
	Length (m)			Length (m)			Length (m)		
	(L1) intake → Ø 80/80 mm outlet (L2)			(L1) intake → Ø 80/60 mm outlet (L2)			(L1) intake → Ø 80/50 mm outlet (L2) *		
	L max = L1+L2	L1 max	L2 max = L max-L1 max	L max = L1+L2	L1 max	L2 max = L max-L1 max	L max = L1+L2	L1 max	L2 max
Luna Air Luna IN Plus	80	15	65	40	10	30	40	10	30
	FLEXIBLE FLUE PIPE								
	Length (m)			Length (m)					
	(L1) intake → Ø 80/80 mm outlet (L2)			(L1) intake → Ø 80/50 mm outlet (L2) *					
	L max = L1+L2	L1 max	L2 max = L max-L1 max	L max = L1+L2	L1 max	L2 max			
Luna Air Luna IN Plus	80	15	65	40	10	30			

*Ø50 flue pipe only for 24 kW boilers. The maximum length of intake (L1 max) and flue (L2 max) pipes can't be exceeded.

For flue pipes Ø 80 and 60, the maximum length of intake pipe (L1 max) can't be exceeded.

Models	RIGID FLUE PIPE						FLEXIBLE FLUE PIPE			
	→ Ø 80 mm		→ Ø 60 mm		→ Ø 50 mm		→ Ø 80 mm		→ Ø 50 mm	
	Length reduction for each 90° bend insertion (m)	Length reduction for each 45° bend insertion (m)	Length reduction for each 90° bend insertion (m)	Length reduction for each 45° bend insertion (m)	Length reduction for each 90° bend insertion (m)	Length reduction for each 45° bend insertion (m)	Length reduction for each 90° bend insertion (m)	Length reduction for each 45° bend insertion (m)	Length reduction for each 90° bend insertion (m)	Length reduction for each 45° bend insertion (m)
Luna Air Luna IN Plus	0,5	0,25	1	0,5	3	1,5	0,5	0,25	2	1



BAXISPA

36061 BASSANO DEL GRAPPA (VI)
Via Trozzetti, 20
export@baxi.it
www.baxi.it



Our commitment to customer satisfaction is delivered by performing all security and functional tests on each and every product manufactured, assuring reliability and long life.

Baxi S.p.A. 11-23 a