RANGE OF MODELS

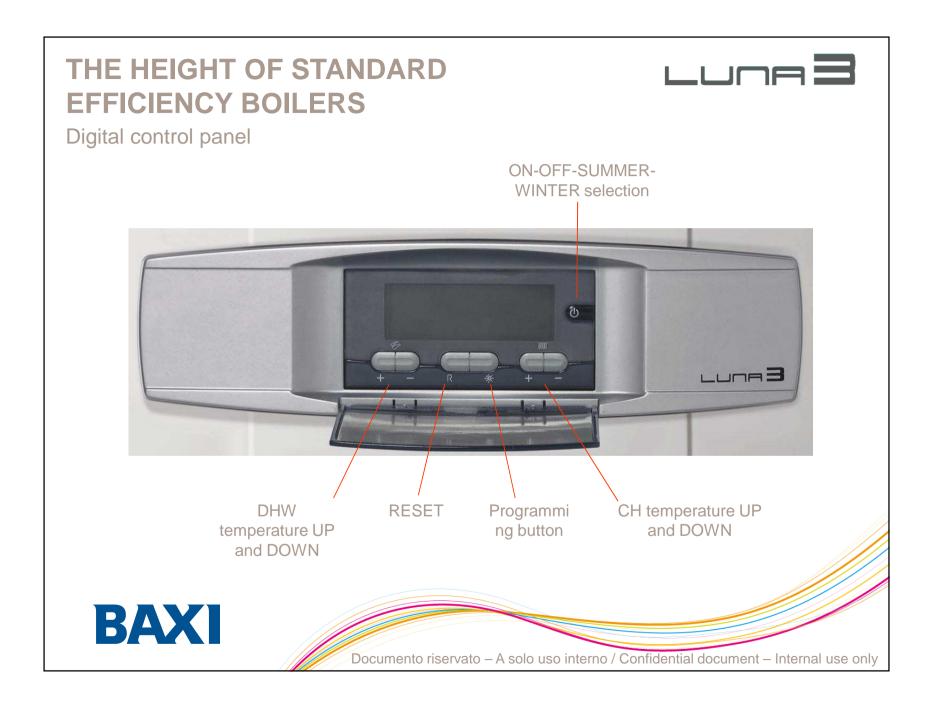
- LUNA3 240 i 24 kW open flue, combi instantaneous
- LUNA3 240 Fi 25 kW fanned flue, combi instantaneous
- LUNA3 310 Fi 31 kW fanned flue, combi instantaneous
- LUNA3 1.310 Fi 31 kW fanned flue, heating only

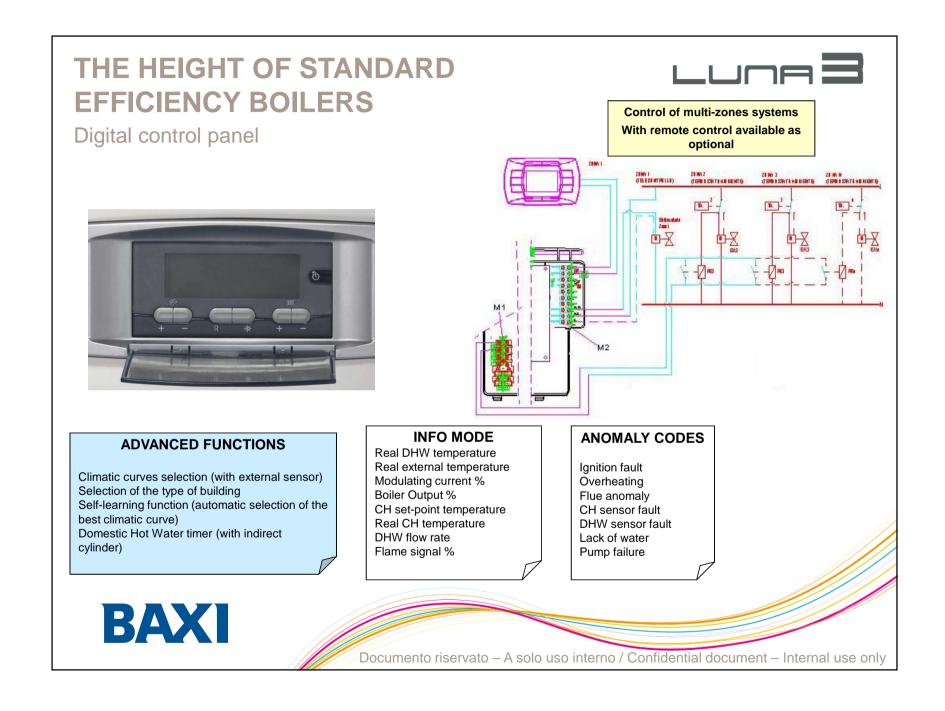
MAIN FEATURES

- Same dimensions for all the models (HxWxD = 763x450x345 mm)
- ★ ★ ★ of energetic efficiency according to 92/42/CEE for Fanned Flue models
- New enhanced primary copper exchangers for excellent energy efficiency
- New compact hydraulic group with electric diverter valve and flowmeter for higher DHW comfort
- New pre-heating electronic function: after any hot water demand, the boiler keeps the primary circuit in temperature so that the following hot water demands will have the desired temperature immediately. This function will deactivate automatically after 60 minutes of no water demands to contain energy consumption
- Climatic regulation as standard (external sensor as optional)
- Two possible ranges of Central Heating temperature: 30-85℃ or 30-45℃









Components

- Frontal access to all the components to simplify the periodical service of the boiler
- Hydraulic group completely made of brass
- New range of coaxial flue accessories to quicken the installation

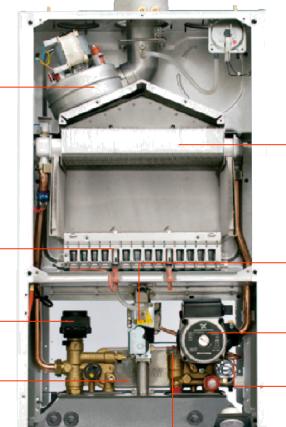
Function to optimize The re-lightings BURNER AND ELECTRODES Stainless steel burner, independent flame Sensing and ignition

FUN Post-ventilating

electrodes ELETRIC 3 WAY VALVE

full frost protection and anti-blocking function guaranteed

DWH EXCHANGE stainless steel plate to plate version for the maximum thermal exchange



PRIMARY HEAT EXCHANGER

High efficiency heat exchanger made of copper pipes covered by anticorrosion painting

MODULATING GAS

Gas control with double safety solenoid and Independent Built-in modulating device

PUMP WITH AIR-VENT

Low energy type for power consumption and noise reduction

BUILT-IN BY-PASS

To ensure the boiler's Correct working in any installation

DHW FLOW/METER Flowmeter with turbine

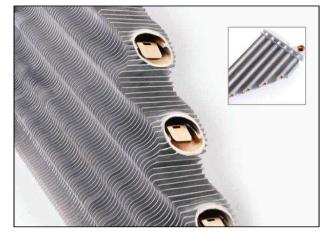
to detect and gauge the water flow



New range of primary exchanger

- Higher efficiency thanks to the wider exchange surface
- Better distribution of the water inside the pipes thanks to the presence of turbolators
- Less head losses thanks to the parallel connections between the pipes





EXCHANGER	LUNA 240 Fi	LUNA3 240 Fi		
Exchange power (kW)	24	25		
Number of pipes	5	6		
Pipes connection	In series	In parallel		
Number of turbolators	0	6		
Number of exchange plates	96	96		
Height of the plates (mm)	41	48		
Weight (kg)	3,08	3,44		



Hydraulic group



• Fully made of **brass**, to assure a long life and durability

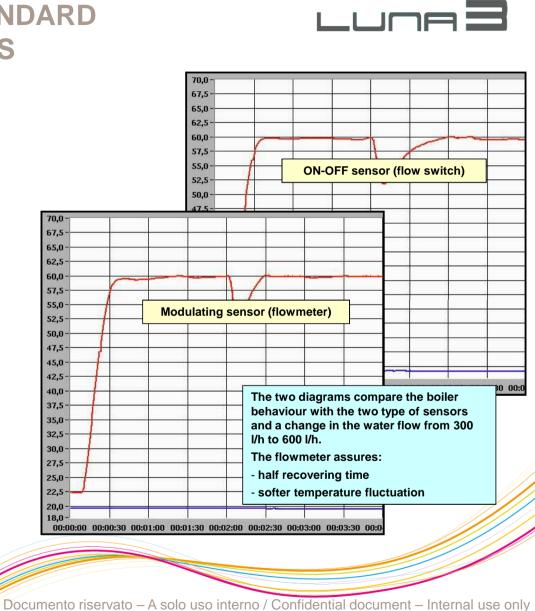
- **Stainless steel** plate to plate sanitary exchanger
- Flowmeter to allow a complete power modulation based on water flow rate
- New generation of Grundfoss "low
 Energy" pumps

BAXI

Flowmeter

Thanks to the **flowmeter** the sanitary water flow is detected: the boiler's heat output is then regulated according to the DHW amount required. A great advantage in case of sanitary hot water demand change: instantaneous boiler's adjustment.

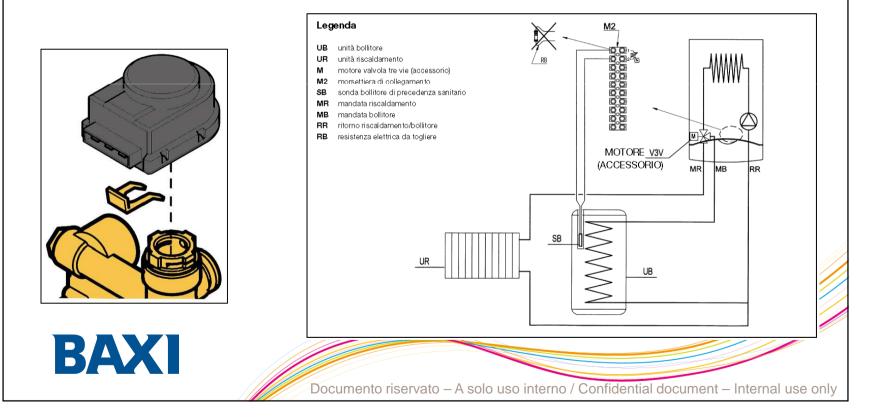
BAXI



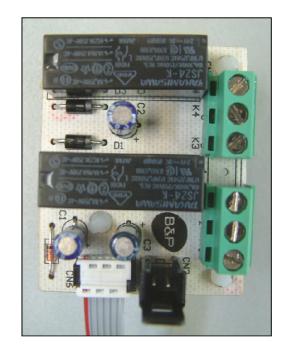


Connection to an indirect cylinder

- The Heating Only Models have been designed to control directly an indirect cylinder.
- DHW probe and 3 way valve motor (supplied as optional) allow an easy boiler indirect cylinder connection.



Interface relay PCB



This interface PCB has two relay outputs and an ON-OFF input, settable as follows:

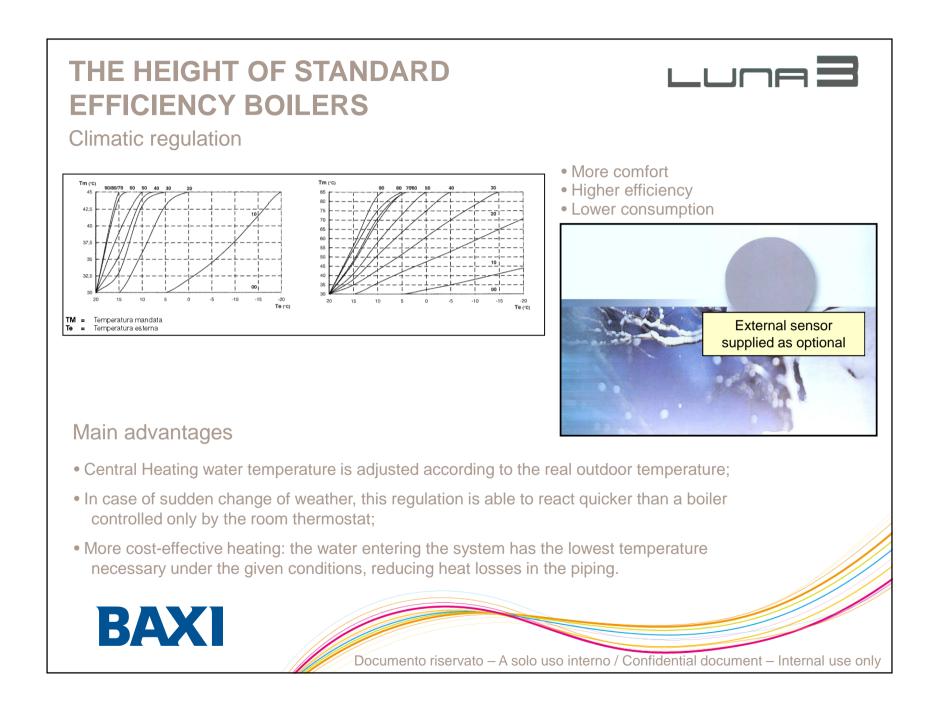
OUTPUTS

- Control of an external pump
- Control of an external valve
- Remoting of alarm signal
- Control of an extractor hood
- Operation in cascade system

INPUT

- Management of cascade systems
- Switching on by telephone
- low temperature termostat

BAXI







HIGH PERFORMANCE

Thanks to the brand-new enhanced heat exchanger, the DWH production is 18 lt/min for 310 Fi models and 14.3 lt/min for the 240 Fi (Δ T 25°C).



EASY INSTALLATION

Hydraulic and gas connection are unchanged as to the current Luna range, in order to make the installation easier. Pressure gauge in sight for an easy check of the system.



BAXI AFR SYSTEM

The Air Flow Regulation (AFR) system, patented Baxi, allows the efficiency optimization thanks to a perfect inlet air regulation. The air in excess can be regulated according to the duct total length (dual flue system-fanned flue models only) by turning the intake connection. It can be positioned both on the right or left side of the flue ducts. Baxi AFR system is supplied as option.



CONNECTION TO SOLAR SYSTEMS

Instantaneous combination models are designed to be easily connected to Baxi integrated solar system.



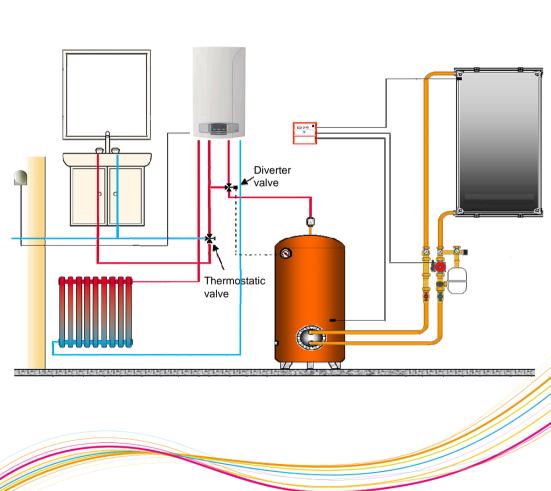
Example of integration with a solar system

Thanks to the diverter valve installed before the boiler, the water coming from the solar tank will pass through the boiler only when the water temperature is lower than the setpoint (e.g. 50°C). The boiler will heat the water to the selected temperature.

ALTERNATIVE SOLUTION

BAXI

Thanks to the advanced electronics of LUNA3, we can have a simplier solution without the diverter valve before the boiler. The water will always pass through the boiler but the boiler will switch on only when the temperature of the water is lower than what is required.





Technical features

Model		240 i	240 Fi	310 Fi	1.310 Fi	
Maximum heat input	kW	26,3	26,9	33,3	33,3	
Minimum heat input	kW	10,6	10,6	11,9	11,9	
Maximum heat output 80/60°C	kW	24	25	31	31	
Minimum heat output 80/60°C	kW	9,3	9,3	10,4	10,4	
92/42/CEE classification		* *	* * *	* * *	* * *	
Efficiency at max output	%	91,2	92,9	93,1	93,1	
Efficiency at 30%	%	88,7	90,2	90,8	90,8	
Expansion vessel capacity	litri	8	8	10	10	
Range of CH temperatures	°C	30 – 85				
Range of DHW temperatures	°C	35 - 60				
DHW production $\Delta T 25^{\circ}C$	l/min	13,7	14,3	17,8	-	
Minimum DHW flow rate	l/min	2	2	2	-	
Minimum DHW pressure	bar	0,15	0,15	0,15	-	
Min. working temperature	°C	- 5				
Grade of protection		IPX5D				

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