

BAXI

Residential Heating Boilers



BAXI Luna3 Comfort



BAXI Luna Duo-Tec GA



The best in European
design & manufacturing
giving you warmth,
efficiency and total
peace of mind.

BAXI Residential Heating Boilers



The BAXI Residential range of wall mounted heating boilers provides peace of mind and energy efficiency for home heating systems and hot water use. BAXI are experts in the field of high output domestic boilers, both in heating only and combination models for heating and domestic hot water (DHW). Available in outputs of 12kW to 40kW.

A World Leader in Heating Technology

BAXI are specialised boiler manufacturers based in Vicenza, Italy. As a world leading manufacturer of heating and hot water systems, BAXI are committed to environmentally sustainable water based heating solutions. BAXI have a long and proud history dating back over 30 years and are one of the largest manufacturers of heating boilers in Europe. As BAXI expertise is dedicated to boiler manufacture and development, this enables BAXI to stay at the forefront of cutting edge heating solutions and anticipate market demand, always with quality and sustainability as the driving force. This expertise is what sets BAXI boilers apart.

Baxi in Australia

HydroHeat Supplies are the exclusive importer of BAXI Boilers in Australia. As the BAXI presence in Australia, HydroHeat are proud to support and maintain one of the leading European boiler brands, and arguably the most efficient heating boilers available on the Australian market.

HydroHeat Supplies are the premier hydronic heating supply company in Australia, having been established since 1990. HydroHeat supply boilers as part of complete hydronic heating systems and are synonymous with the BAXI ethos, being driven by sustainability and excellence in hydronic heating products. HydroHeat head office and warehousing is based in Melbourne with national distribution across 5 states.

- › Hydronic Heating Experts
- › Quality European Manufacturer
- › Class Leading Efficiency
- › Extensive Range
- › Full Warranty & Service Support
- › Over 10 years in Australia
- › Hydronic System Design & Consultation
- › AGA Australian Approvals

After Sales Support & Service

BAXI servicing is available Australia wide by HydroHeat trained and accredited BAXI installers. HydroHeat reinforce the importance that units are installed and commissioned correctly in accordance with BAXI guidelines, and maintained by competent contractors.

BAXI boilers carry Australian approvals (AGA Cert No. 7023) for both Natural Gas and Propane (LPG), and are approved for both indoor and outdoor use.

The BAXI Advantage Why Install a BAXI Boiler?

The boiler is the central part of a home space heating or hot water system, and where the most significant gains can be made in energy and cost savings. Careful selection is required to ensure maximum benefit, look for these key features:

	BAXI Duo-Tec GA <i>(condensing type)</i>	BAXI Luna3 <i>(traditional type)</i>
Versions Available	Heating, Combination	Heating, Combination
AGA Approvals for Use	Indoor, Outdoor	Indoor, Outdoor
Gas Type	Natural Gas, LPG	Natural Gas, LPG
Output Range	12-24-28-33-40kW	25kW ,31kW (heating), 31kW (combi)
Condensing	Yes	No
Modulation Ratio	1:7	1:3
Push Button Digital Control	Yes	Yes
Rated Efficiency	97.3%	83%
Burner, Heat Exchanger	Stainless Steel, Composite Casing	Stainless Steel, Finned Copper Tube
Service Support, Warranty	Yes, 2 Years	Yes, 1Year
SEDBUK Rating (A - G)	A	C

To Condense or Not to Condense

Gas condensing boilers represent the latest in boiler technology. Gas condensing technology has been used successfully overseas for over 25 years and is now legislated for mandatory use for home heating throughout Europe. In Australia however condensing boilers are more recent, and traditional type boilers are still considered the norm.

Careful selection of boiler type is critical to ensure longevity and ability of the secondary heat exchanger to withstand corrosion. Condensing boilers have typical thermal efficiency of 90-97% as opposed to non-condensing types of around 80%. The BAXI range of condensing boilers operates at up to 97% efficiency. The Luna3 conventional range operates at 83% . A significant advantage considering heating makes up 15-30% of a homes energy requirements.

Condensing technology reuses the 'latent' heat from the flue gases which in turn lowers the temperature of the flue. By doing this the flue gases emit 90% less CO (Carbon Dioxide) and 80% less NOx (Nitric Acid) in comparison with conventional boilers.

Selecting Your Boiler

When deciding on your boiler type and model, the key is to assess the volume of use and type of application intended. In some residential circumstances such as small apartment or single dwelling a conventional type boiler may suffice, however the greater payback and efficiency of a condensing boiler still makes it the preferable option. The 'modulation ratio' of a BAXI condensing boiler means it can effectively turn itself down when full heat is not required, resulting in significant gas savings. It's also worth keeping in mind that a gas boiler is more efficient than an electric or solid fuel heating system.

Retro Fit or New Install?

Heating makes up the largest proportion of a home's total energy requirements. Both the Luna3 Comfort and Duo-Tec GA wall mounted boilers are suitable for retro-fit to an existing home heating system or installation with new build homes. In addition the Duo-Tec GA range is ideal for integration with other systems such as pool heating, solar and floor heating.



Energy and Cost Saving Benefits

In a typical 30yr old home of approx 17 squares, an efficient hydronic heating boiler has the potential to reduce annual gas running costs for space heating by as much as 35%. This saving is compounded and even greater if the incumbent system is electric powered or solid fuel. The return on investment of a premium hydronic heating system is tangible in add on home resale value.

BAXI domestic boilers are rated with the European **SEDBUK** rating system, the accepted standard for Domestic boiler efficiency rating in Europe. A boiler rated 'C' or higher is considered very good. BAXI domestic boilers achieve 'A' & 'C' ratings throughout the model range. In addition to efficiency the energy and emissions savings deliver substantial environmental benefits.

BAXI Luna Duo-Tec GA

LATEST TECHNOLOGY GAS ADAPTIVE CONDENSING BOILER

The Baxi Duo-Tec GA boiler range is ideal for domestic use with a higher demand. The Duo-Tec GA uses gas adaptive control, which automatically calibrates and adjusts to the gas supply for reduced gas consumption.

Gas condensing technology extracts and reuses heat from burnt gases to deliver a rated efficiency of 97% making the Duo-Tec GA range one of the most efficient domestic boilers on the Australian market.

The class leading 1:7 modulation 'turndown' ratio adjusts heat output to suit demand, reducing boiler 'on-off' cycling for ultra smooth energy efficient operation, increased longevity and gas savings.



Indoor Model Shown

Features

- › Up to 97.3% energy efficient
Save money and reduce emissions.
- › 7 model choices 12kW to 40kW for indoor/outdoor use
Ideal for larger households with high demands
- › Gas Adaptive self calibrating system
automatically detects and adjusts for NG or LPG supply
- › Wall hung, compact size and minimal weight
- › User friendly control digital panel with clear display
- › **'think'** intelligent internal integrated operating system
- › Heating only or combination models for heating and domestic hot water (DHW) use
- › Frontal access for easy servicing
- › Complete soundproofing for quiet operation
- › Stainless Steel AISI 316L premixing burner and heat exchanger with composite casing

Benefits

- › SEDBUK rated 'A' efficiency, highest rating possible with fossil fuel
- › 1:7 turndown ratio adapts to heat demand, reduces boiler output to prevent 'on-off' short cycling
- › Condensing pre-mix burner, reuses waste flue gases reduces noxious waste (up to 80% of NOx, 90% of CO)
- › Built-in outdoor temperature compensation sensor option
- › Modulating fan with electronic speed adjusting system
- › System to prevent pump sticking, cycles every 24 hours
- › Self commissioning
- › For extremely high residential demand applications consider the NEW **35kW Duo-Tec MP** light commercial boiler. A new class of boiler combining commercial features in a residential compatible package



Energy Efficiency
Genuine Rated
SEDBUK efficiency



Residential
Large apartments
& households



Warranty
2 Year Boiler
5 Year Heat Exchanger



High Output
Condensing
Boiler Technology



think
Intelligent integrated
operating system



1:7 Modulation
Adapts heat output,
save short cycling

Control System

- › Overheat limit thermostat of water/flue exchanger
- › Hydraulic pressure switch to prevent boiler operating with low water
- › Safety NTC sensor to prevent flue overheating
- › Electronic temperatures controlled by NTC sensors
- › Pressure relief valve set at 3 bar
- › Frost protection, as well as pump and diverter valve seize prevention



Duo-Tec GA
Indoor Models



Duo-Tec GA
Outdoor Models

Specification & Performance

Specification & Performance		Heating Only			Heating & DHW (COMBI)			
		Duo-Tec GA 12kW	Duo-Tec GA 24kW	Duo-Tec GA 28kW	Duo-Tec GA 24kW	Duo-Tec GA 28kW	Duo-Tec GA 33kW	Duo-Tec GA 40kW
Model Code		GA 1.12	GA 1.24	GA 1.28	GA 24	GA 28	GA 33	GA 40
Type (Indoor / Outdoor)	-	ID / OD	ID / OD	ID / OD	ID / OD	ID / OD	ID / OD	ID / OD
Gas Used (Natural/Propane)		NG / LPG	NG / LPG	NG / LPG	NG / LPG	NG / LPG	NG / LPG	NG / LPG
Nominal Gas Consumption (Heating/DHW)	MJ/h	50	98	115	85 / 98	98 / 115	115 / 135	125 / 164
Turn Down Gas Consumption	MJ/h	10	14	16	14	16	20	25
Modulation Ratio		1:7	1:7	1:7	1:7	1:7	1:7	1:7
Max DHW Heat Output	kW	-	-	-	24.0	28.0	33.0	40.0
Max Heat Output at 80/60 °C	kW	12.0	25.0	28.0	20.0	25.0	28.0	32.0
Min Heat Output at 80/60 °C	kW	2.0	3.4	4.0	3.4	3.8	4.7	5.7
* Efficiency at 80/60 °C	%	91.2/92.5	91.2/92.5	91.2/92.5	91.1/92.4	91.1/92.4	91.1/92.4	91.1/92.4
Max Heat Output at 50/30 °C	kW	13.1	26.1	30.5	21.8	26.1	30.6	34.9
Min Heat Output at 50/30 °C	kW	2.2	3.7	4.3	3.7	4.1	5.1	6.3
* Efficiency at 50/30 °C	%	97.1	97.1	97.1	97.3	97.3	97.3	97.3
Min-Max Water Circuit Pressure (Heating)	bar/kPa	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300	0.5 - 3.0/ 50-300
Min-Max Water Circuit Pressure (DHW)	bar/kPa	-	-	-	0.15 - 8.0/ 15-800	0.15 - 8.0/ 15-800	0.15 - 8.0/ 15-800	0.15 - 8.0/ 15-800
DHW Production at ΔT=25°C	l/min	-	-	-	13,6	15,9	18,3	22,9
DHW Production at ΔT=35°C	l/min	-	-	-	9,8	11,5	13,5	16,4
Flue Duct Diameter	mm	60 / 100	60 / 100	60 / 100	60 / 100	60 / 100	60 / 100	60 / 100
Max Flue Temperature	°C	80	80	80	80	80	80	80
Waste NOx Emissions	mg/kWh	23.5	17.3	18.1	16.1	19.3	30.7	26.5
Gas Input Pressure (NG / LPG)	kPa	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75
Power Supply	V/Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
Power Consumption	W	108	102	114	102	114	133	142
Net Weight (Indoor / Outdoor)	kg	34.5 / 40.5	34.5 / 40.5	36 / 42	38.5 / 44.5	38.5 / 44.5	39.5 / 45.5	41 / 47
Volume Expansion Tank	lt	8	8	10	8	8	10	10
Noise Level at 1 metre	db(A)	<45	<45	<45	<45	<45	<45	<45
SEDBUK Rating	A-G	A	A	A	A	A	A	A

* Australian Efficiency Ratings as per AS 4552

AUSTRALIAN APPROVALS

- › Approved for indoor, outdoor use
- › Approved for Natural Gas, Propane Gas
- › Electrical and fittings approvals



SEDBUK Rating



BAXI Duo-Tec GA Boilers
Rate 'A' = Excellent

A	Above 90%
B	86% - 90%
C	82% - 86%
D	78% - 82%
E	74% - 78%
F	70% - 74%
G	Below 70%

BAXI Luna3 Comfort

COMPACT WALL HUNG CONVENTIONAL BOILER

The BAXI Luna3 Comfort wall mounted conventional boiler offers European technology in a very efficient (83%), compact and easy to install unit for domestic use.

The Luna 3 Boilers can provide heating only or heating and domestic hot water (DHW) combined in the one unit. Available in 25kW and 31kW for heating only and a 31kW combination model. Luna3 boilers are Australian approved and suitable for indoor and outdoor use.



Indoor
Model
Shown

Features

- › Compact wall mounted and easy to install
- › Ideal for smaller households and apartments
- › Available in heating only (25 and 31kW) or combination heating and domestic hot water (31kW)
- › Easy to use programmable display
- › 83% energy efficient class leading conventional boiler
- › Every model comes in indoor or outdoor
- › Full digital, programmable and removable control panel with LCD display - allows easy adjustment of heating and domestic hot water
- › Stainless Steel Burner, Stainless Steel DHW heat exchanger (310 model), WaterMark certified



Benefits

- › Electronic temperature control by NTC probes
- › Electronic Flame modulation and electronic ignition
- › Overheat limit thermostat
- › 300kPa Pressure relief valve on heating system
- › Hydraulic pressure switch to prevent boiler operating in the event of low water
- › System to prevent 3 way valve and pump sticking, cycles every 24 hours
- › Anti frost device on heating
- › Easy to clean domestic water filter



Control
Removable remote
control panel



Residential
Houses, apartments
medium use



Warranty Term
1 Year BAXI
warranty

Now easier than ever to use & program with comfort right at your fingertips.



Luna3 has been developed with an innovative removable control panel/thermostat included with the boiler - enabling remote programming of the heating system, domestic hot water adjustment and full boiler diagnostics.



Luna3 Comfort
Indoor Models



Luna3 Comfort
Outdoor Models

Specification & Performance	Heating Only		Heating & DHW (COMBI)
	Luna3 Comfort 25kW	Luna3 Comfort 31kW	Luna3 Comfort 31kW
Model Code	LUNA3-1240	LUNA3-1310	LUNA3-310
Type (Indoor / Outdoor)	-	ID / OD	ID / OD
Gas Used (Natural / Propane)	-	NG / LPG	NG / LPG
Nominal Gas Consumption MJ/h	103	141	141
Turn Down Gas Consumption MJ/h	38	55	55
Modulation Ratio	1:3	1:3	1:3
Max Heat Output at 80/60 °C kW	25	31	31
Min Heat Output at 80/60 °C kW	9.3	10.4	10.4
* Efficiency at 80/60 °C %	83%	83%	83%
Water Circuit Max Pressure (Heating) bar/kPa	0.5-3.0 / 50 -300	0.5-3.0 / 50 -300	0.5-3.0 / 50 -300
Water Circuit Max Pressure (DHW) kPa	-	-	800
DHW Production at ΔT=25°C l/min	-	-	16,4
DHW Production at ΔT=35°C l/min	-	-	11,7
Flue Duct Diameter mm	60 / 100	60 / 100	60 / 100
Two Pipe Flue & Air Duct Diameter mm	80 / 80	80 / 80	80 / 80
Gas Input Pressure (Natural Gas / LPG) kPa	1.13 / 2.75	1.13 / 2.75	1.13 / 2.75
Power Supply V/Hz	230 - 240V / 50Hz	230 - 240V / 50Hz	230 - 240V / 50Hz
Power Consumption W	135	165	165
Net Weight (Indoor / Outdoor) kg	37	41	43
Volume Expansion Tank ltr	8	10	10
Noise Level at 1 metre db(A)	<50	<50	<50
SEDBUK Rating A-G	C	C	C

* Australian Efficiency Ratings as per AS 4552

AUSTRALIAN APPROVALS

- Approved for indoor, outdoor use
- Approved for Natural Gas, Propane Gas
- Electrical and fittings approvals



SEDBUK Rating



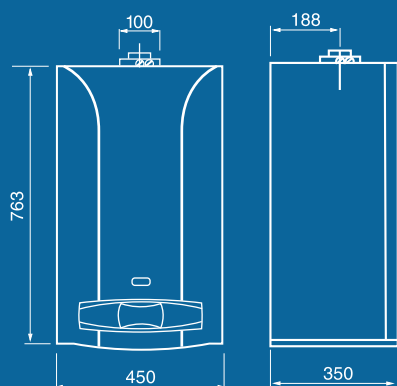
BAXI Luna3 Boilers
Rate 'C' = Good / Very Good

A	Above 90%
B	86% - 90%
C	82% - 86%
D	78% - 82%
E	74% - 78%
F	70% - 74%
G	Below 70%

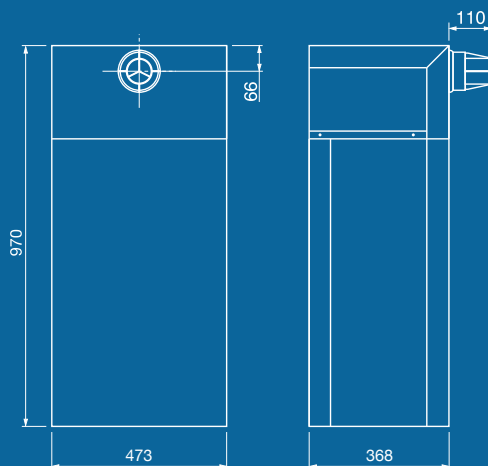
Technical Diagrams

Luna3 Comfort - All Models

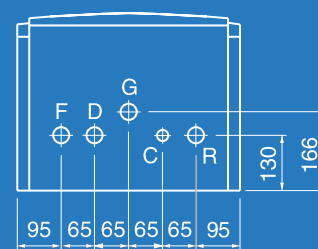
INDOOR MODEL



OUTDOOR MODEL



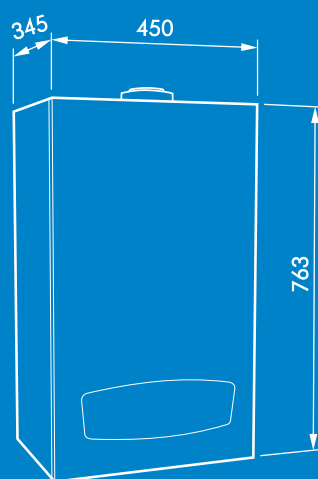
CONNECTION DIAGRAM



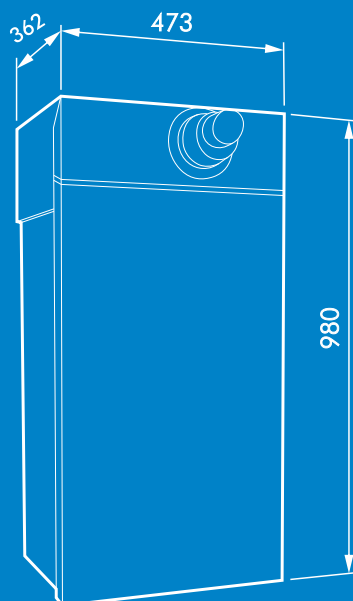
F: Heating system flow 3/4" BSP
D: Domestic hot water 1/2" BSP
G: Gas inlet 3/4" BSP
C: Cold feed 1/2" BSP
R: Heating system return 3/4" BSP

Luna Duo-Tec GA - All Models

INDOOR MODEL



OUTDOOR MODEL



CONNECTION DIAGRAM

