



Biomass solid fuel boiler range



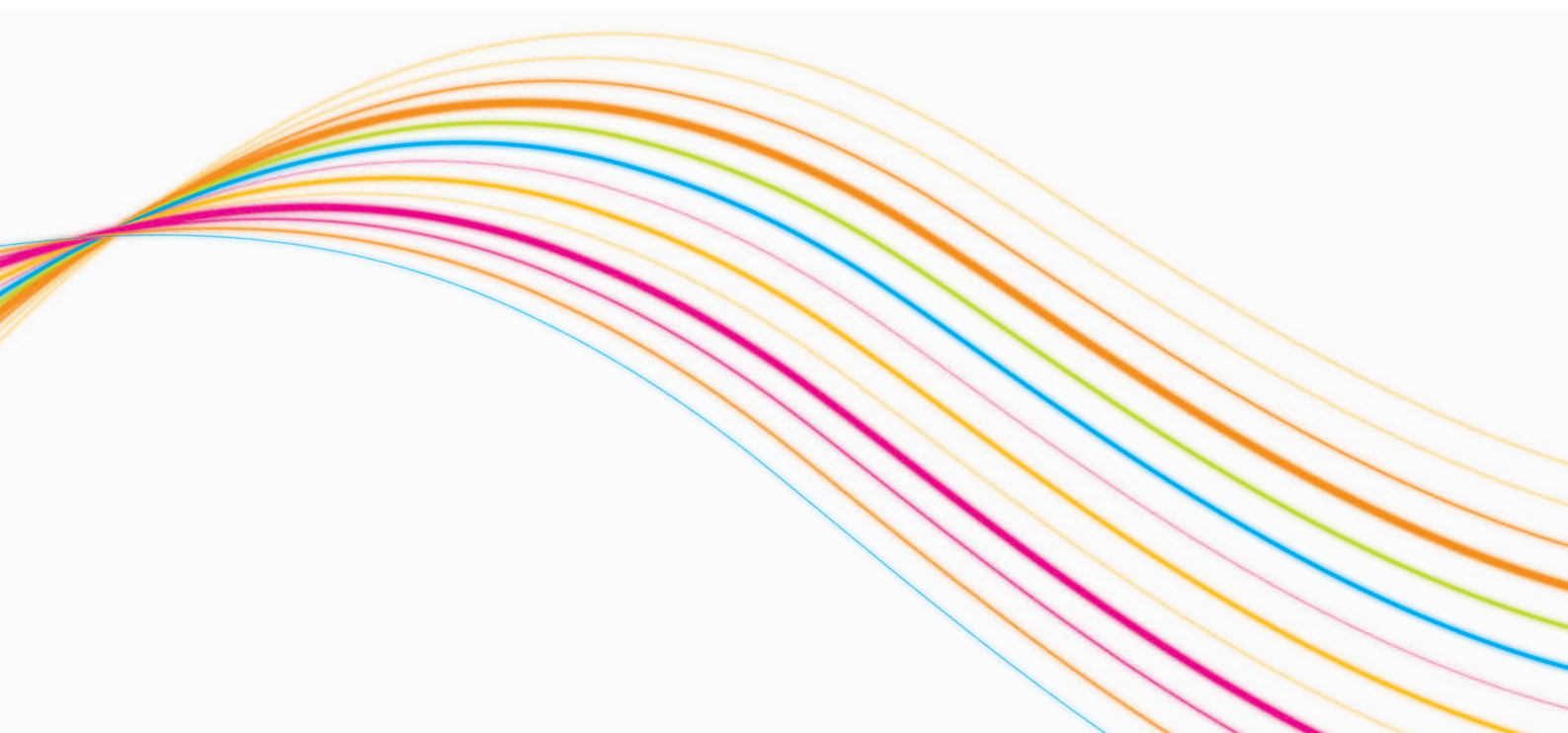
# Fuelling positive change

For more than 150 years, Baxi has been at the forefront of heating technology – a renowned and respected company, which has consistently led the way with new and pioneering heating solutions.

Today, our dedication to innovation is more alive than ever as we look at new ways to heat homes and businesses; ways that will utilise renewable energy sources that will play a part in protecting the planet for future generations.

Interest in renewable energy has grown significantly over the last few years and Baxi recognises the increasingly important role that renewables will play in the future. To meet growing demand, Baxi offers a comprehensive range of heating solutions that can be added to an existing property or designed into a new build or major refurbishment.

Baxi Biomass is one of the only carbon neutral fuels available today and as a consequence will attract significant grant funding.





# What is Biomass?

Baxi Biomass™ boilers use carbon neutral fuel such as pellets or logs to provide sustainable and environmentally friendly heat for the home. The carbon released during combustion is balanced by that absorbed during the plants growing process (photosynthesis). Baxi Biomass™ is ideal for properties where mains gas is not available.



Wood pellets



Log wood

There are two types of Baxi Biomass™ boilers, Baxi Multi-Heat™ – an automatically fed pellet boiler, and Baxi Solo Innova™ – a log burning boiler, each with a choice of outputs.

## Baxi Biomass™ range

Model	Fuel	Heat output
Baxi Multi-Heat 1.5	Wood pellets	15kW
Baxi Multi-Heat 2.5	Wood pellets	25kW
Baxi Multi-Heat 4.0	Wood pellets	43kW
Baxi Solo Innova 20	Log wood	20kW
Baxi Solo Innova 30	Log wood	32kW
Baxi Solo Innova 50	Log wood	48kW

## Baxi Multi-Heat

The Baxi Multi-Heat is designed to burn wood pellets, making it ideal for owners of properties in rural areas, particularly where main gas is not available.

Our range includes 15kW, 25kW and 43kW outputs.

All complete with integral hopper.

### How it works

When there is a heat demand, the feed mechanism (auger) automatically supplies fuel to the combustion chamber from the hopper. The built-in modulating fan delivers a precise amount of primary air to ensure the boiler operates at maximum efficiency.

The temperature is regulated by a thermostatic controller in conjunction with the modulating fan. This ensures the boiler runs at optimum output until the set temperature is close to being achieved. The control then modulates the fan and auger reducing the fuel supply therefore switching over to a reduced output.

Burning wood pellets can achieve considerable savings in comparison to oil and LPG. Savings depend, amongst other things, on the type of fuel, costs and the annual efficiency of the old boiler.





### Thermostatic Control

The control unit regulates the flow of fuel and combustion air to maintain maximum efficiency.

The controller also enables the Installer/user to set the boiler temperature.

Concealed behind the main upper door is the main heat exchanger.

Integral of the main heat exchanger are the flue baffles which will require periodic removal for cleaning to maintain efficiencies. Access to the combustion chamber for ignition, cleaning and ash removal is via the lower door.



Insulated Doors



Draft Stabiliser

Strong winds or a very high chimney can cause excessive flue draft.

Fitting a draft stabiliser, will enable the flue draft to be controlled and set at the recommended 1 – 1.25mm water gauge.

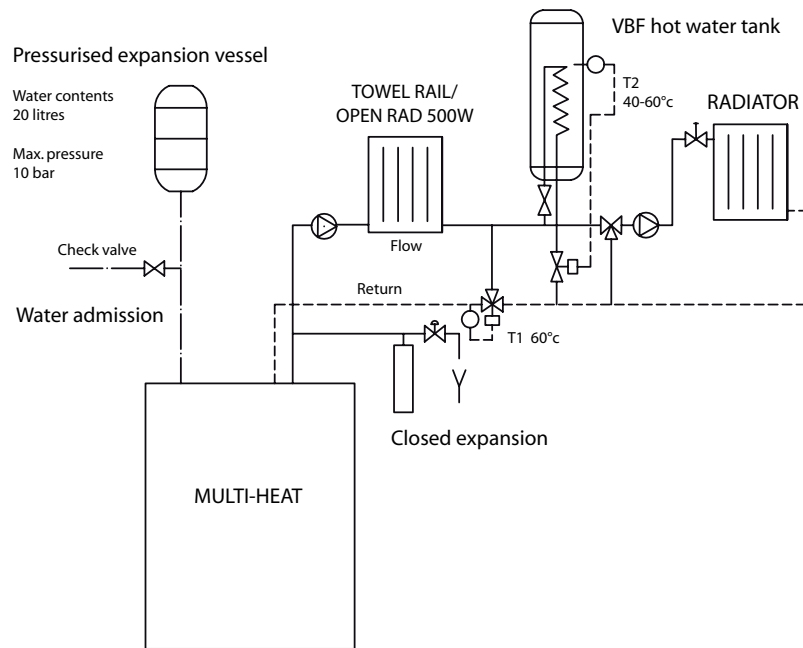
The auger motor rotates the auger which in turn feeds fuel into the combustion chamber at the required rate.



Gear Motor



# BAXI Multi-Heat



A typical installation of a Baxi Multi-Heat is shown above.

It is possible to install the Multi-Heat in with either an open vented or sealed system.

Note: The domestic hot water cylinder must be installed prior to the shunt (pump).



## Installation Requirements:

It is recommended that access is available to the front, back and one side of the boiler.

Further information can be found in the installation instructions or visit [www.baxi.co.uk](http://www.baxi.co.uk)



Description	Size	Output (kw)	Hopper Volume (litres)	Product code
Multi-Heat 1.5		15	200	5130898
Multi-Heat 2.5		25	360	5130900
Multi-Heat 4.0		43	600	5130904
<b>Accessories:</b>				
Thermostatic valve – (required for sealed system installations)				5132050
Storage tank feed kit				5132051
4.0 Bar Manometer				5132053
Thermometer	0-120 degree			5132054
Buffer tank	600 litre			5131044
Buffer tank	800 litre			5131045
Cleaning brush for hand drill				5132052

Multi-Heat		Model 1.5	Model 2.5	Model 4.0
<b>Technical Data:</b>				
Output (nominal)	kW	15	25	43
Hopper door, reversible		Yes	Yes	Yes
Connection of flow return and expansion pipes		1 BSP	1 BSP	1 BSP
Connection of additional safety sprinkler	inches	1/2	1/2	1/2
Electricity consumption (max)	kW	0.3	0.46	0.46
Electricity connection (Boiler)		230v - 50hz	230v - 50hz	230v - 50hz
Operating temperature	°C	60-85	60-85	60-85
Recommended standby output*	approx. kW	0.5	0.8	1
Fuel consumption at nominal output	kg/h	3.4	5.7	10
Test pressure	bar	4.0	4.0	4.0
<b>Installation Data:</b>				
Depth	mm	1435	1578	1693
Width	mm	504	600	1000
Height	mm	1165	1475	1475
Hopper volume	litre	200	360	600
Height to flue	mm	1110	1455	1455
Flue external diameter	mm	130	150	150
Weight – empty	Kg	340	530	680
Water contents	litre	50	125	150

\*Least recommended stand-by output (heat sink)

## Baxi Multi-Heat™ key features and benefits:

- 1 year parts and labour warranty giving customers complete peace of mind
- Highly efficient (approx 90%)
- Simple operation via a digital control providing continuous variable heat output
- Top flue location for ease of installation
- Delivered completely assembled for easy installation
- Both hopper and boiler doors are reversible to allow for convenient access

For installation instructions please visit our website – [www.baxi.co.uk](http://www.baxi.co.uk)

## Care and Maintenance Advice

Once the Baxi Multi-Heat boiler is installed, call 0870 060 3261 to arrange for one of our heateam engineers to carry out a free set up and test to validate the warranty.

Note:

The hopper will require intermittent filling, this will depend on the heat requirement of the property and usage.

Ash will also need to be removed periodically.



## Baxi Solo Innova

The Baxi Solo Innova is a log wood burning boiler.

The Solo Innova is available in three sizes 20kW, 32kW and 48kW outputs capable of satisfying both large and small domestic heating requirements, particularly suited to off gas, rural areas.

The large combustion chamber and access doors make fuel loading and operation easy. The Solo Innova is particularly tolerant of varying log quality.

Baxi Solo Innova is the ideal choice for users who want to cover the whole of their heating requirements using wood, and are environmentally conscious.

The fuel (logs) must be seasoned, cut and split, to the right dimensions.

### How it works

Combustion is regulated by a thermostatically controlled induced draught fan. This draws air into the boiler's ceramic flame tunnel and creates a partial vacuum in the combustion chamber, ensuring complete and efficient combustion.

Baxi Solo Innova™ is designed to be installed in conjunction with a suitable buffer tank. This is to ensure correct heat dissipation in line with system demand.

The boiler must not be installed without a suitable buffer tank.





Baxi Solo Innova is equipped with a thermostat-controlled induced draft fan, which draws the necessary air into the combustion chamber and removes the cooled flue gases.

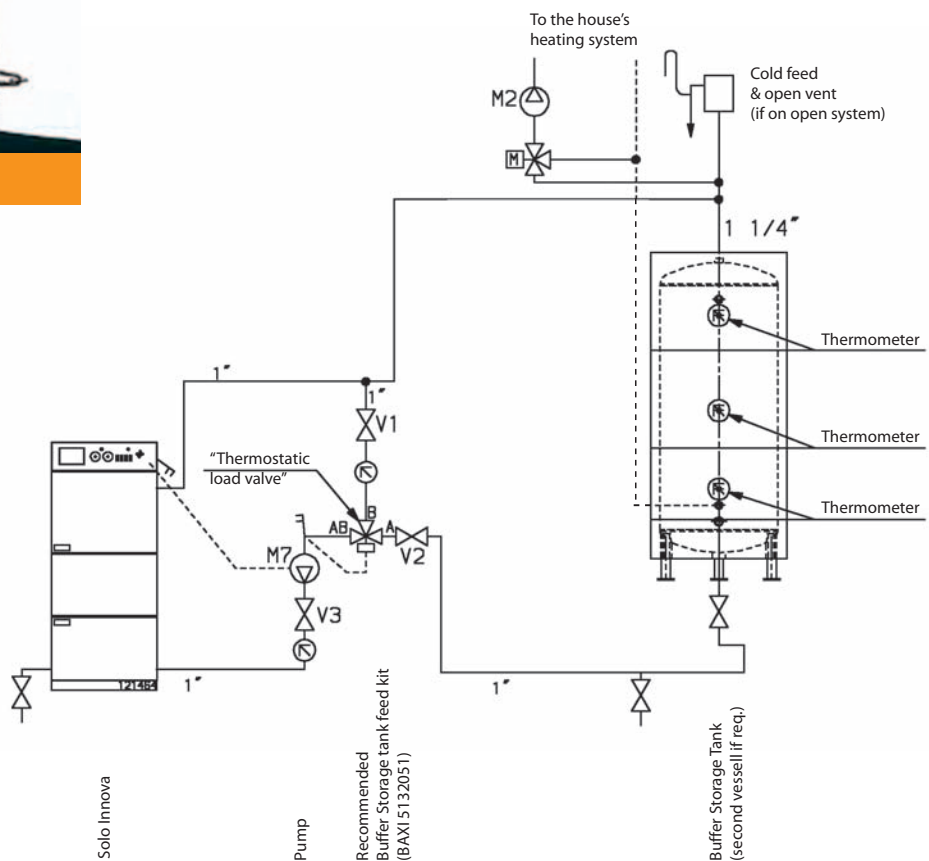
Baxi Solo Innova must always be installed with a suitable buffer tank which can store at least the energy in a single combustion chamber fill-up. The stored primary water is then used to supply domestic hot water and central heating to the home.

The built-in induced draft fan ensures a partial vacuum in the combustion chamber optimising the air supply for combustion. The fan is thermostatically-controlled supplying air in-line with the heat requirement.

Once the main burn is completed and the boiler temperature reduces the fan will automatically switch off.



Strong winds or a very high chimney can cause excessive flue draft. Fitting a draft stabiliser, will enable the flue draft to be controlled and set at the recommended 1 – 1.25mm water gauge.



Typical Installation Schematic is shown

# BAXI Solo Innova



Combustion chamber

Solo Innova is equipped with two doors, which can be hung right or left to ensure easy access for fuel loading and cleaning. The high performance insulated doors ensure low heat losses.

## Solo Innova Control

Boiler control on Baxi Solo Innova, the panel contains the following:

- Boiler thermometer
- Operating thermostat °C, minimum thermostat
- Safety thermostat, and recoupling of safety thermostat
- Minimum thermostat
- Cut-outs for ventilator
- Pump
- Door Magnet



It is recommended that the Baxi Solo Innova is connected to a correctly sized buffer storage tank(s). Baxi offer two tanks either 600 and 800 litres capacity.

## Operation

When the temperature of the buffer tank(s) are below 45°C they are ready for re-charging.

The amount of fuel required to bring the buffer tanks to the correct temperature will vary depending on weather conditions.

## Installation Requirements

Baxi Solo Innova must be installed in a room with, sufficient supply of fresh air.

It has been designed to fit through a standard doorway.

There are adjustment screws so that the boiler can quickly be brought level with the floor. It is recommended that access is available to both the front, back and one side of the boiler.

Cleaning is carried out from the front and from the back.



Description	Size	Output (kw)	Product code
Solo Innova 20		20	5130917
Solo Innova 30		32	5130918
Solo Innova 50		48	5130919
<b>Accessories:</b>			
Thermostatic valve – (required for sealed system installations)			5132050
Storage tank feed kit			5132051
4.0 Bar Manometer			5132053
Thermometer	0-120 degree		5132054
Buffer tank	600 litre		5131044
Buffer tank	800 litre		5131045
Cleaning brush for hand drill			5132052

Solo Innova		Type 20	Type 30	Type 50
<b>Technical Data:</b>				
Heat output	kW	20	32	48
Connection of flow, return and expansion	inches	1¼	1¼	1¼
Combustion chamber depth	mm	379	550	550
Electricity connection		230v-50hz	230v-50hz	230v-50hz
Firing door W x H	mm	350 x 300	350 x 300	350 x 300
Combustion chamber volume	litres	100	135	185
Dust in smoke	mg/MJ	21	23	26
CO in smoke	mg/MJ	195	185	198
Wood lengths	metres	0.33	0.5	0.5
Wood diameter, coniferous wood max.	cm	10	10	10
Wood diameter, beech, birch max.	cm	15	15	15
Test pressure, boiler	bar	4.5	4.5	4.5
Test pressure, spiral tube	bar	40	40	40
<b>Installation Data:</b>				
Depth	mm	907	1188	1188
Width	mm	584	584	694
Height	mm	1375	1375	1375
Height to flue	mm	1425	1425	1425
Flue pipe external diameter	mm	149	149	149
Weight - empty	kg	455	505	550
Water content	litres	100	130	180

### Baxi Solo Innova™ key features and benefits:

- 1 year parts and labour warranty giving customers complete peace of mind
- User-friendly and easy operation
- Highly efficient (approx 90%) minimising both running cost and emissions
- Induced draught fan
- Easy access for cleaning
- Highly insulated

### Care and Maintenance Advice

Once the Baxi Solo Innova boiler is installed, call 0870 060 3261 to arrange for one of our heateam engineers to carry out a free set up and test to validate the warranty.

# Contact us

For all Biomass sales enquiries,  
please call our renewables team on

**0844 8711568**

For all other enquiries, please call

**0844 871 1525**

Open Monday - Friday, 8am - 6pm

Weekends & Bank Holidays, 8.30am - 2pm

We are closed on Christmas Day & New Year's Day

Please note calls may be monitored or recorded.

# BAXI

Baxi Heating UK Ltd.  
Brooks House, Coventry Road, Warwick CV34 4LL

[www.baxi.co.uk](http://www.baxi.co.uk)

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