

Baxi Assure 500 System 2

Wall-hung natural gas or LPG boiler

We've upgraded our Baxi Assure residential System boilers to deliver a range that's more efficient, and easier to install, wire and maintain than ever before – all whilst offering the same impeccable performance and user-friendliness that you've come to expect.



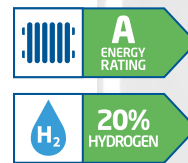
**HIGH
ANNUAL
EFFICIENCY**



**NATURAL
GAS OR LPG
OPTIONS**



**RECYCLABLE
PACKAGING**



Better efficiency

- 94% annual efficiency
- Efficient System boiler providing high-performance central heating and hot water
- Can be fitted with energy-boosting add-ons that reduce the strain on the boiler whilst reducing emissions – including Flue Gas Heat Recovery units, and In-Flue Outdoor Sensors for weather compensation

Better flexibility

- Safe, easy manual conversion between natural gas and LPG without needing an accessory kit
- Rear pipework enables flexible siting
- Available in a range of outputs

Better reliability

- Pre-heated siphonic condensate trap prevents freezing and lock-outs in extreme winter conditions
- Raised gas valve reduces the risk of water damage when extracting wet components
- Robust, corrosion-resistant brass hydraulics and stainless steel heat exchanger
- Oversized rainwater drip tray hose prevents damage from horizontal rainwater ingress

Better for installation and maintenance

- Internal fit telescopic flue option – can be installed quickly, safely and cheaply by one person from within the property, and without needing a separate vertical flue adapter
- 'Positive Fit' pressure relief valve combined with separate drain saves time and money on boiler drain-downs during repairs
- Colour-coded and removable wiring block, allowing for easy access and speed of wiring
- 31 error code history allowing for faster first-time fixes

Better for the end-user

- Quiet, discreet operation
- Backlit digital displays for ease of use in dark cupboards
- Digital pressure gauge making it easier for the end-user to top up the central heating water pressure

Better for the future

- Sustainable, recyclable vertical sleeve packaging
- Capable of running on a 20% hydrogen blend
- Certified OpenTherm, for maximised boiler efficiency
- Enabled integration with future connected services

Technical details

	UNITS	515 System 2	518 System 2	524 System 2
Product code		7814318	7814319	7814320

WEIGHTS

Maximum installation lift weight	kg	28	29	30
Appliance packed gross weight	kg	32.4	32.4	32.4

CONTROLS

Reset button		Yes	Yes	Yes
User-adjustable DHW temperature		Yes	Yes	Yes
User-adjustable CH temperature		Yes	Yes	Yes
LCD temp / status / fault diagnosis display		Yes	Yes	Yes

GAS

		NG or LPG	NG or LPG	NG or LPG
Gas (natural gas / LPG)				
Inlet supply pressure	mbar	20	20	20
Maximum gas rate (natural gas)	m ³ / hr	1.64	1.97	2.61
Maximum gas rate (LPG)	m ³ / hr	1.2	1.44	1.92
Heat input central heating CH	kW max (Pnc)	15.5	18.6	24.7
	kW min (Pnc)	4.9	4.9	4.9
Heat output CH (non-condensing)	kW max (Pnc)	15	18	24
	kW min (Pnc)	4.8	4.8	4.8
Heat output CH (condensing)	kW max (Pnc)	16.3	19.9	26.3
	kW min (Pnc)	5.2	5.2	5.2
Heat input domestic hot water	kW max gross (Q _{nwHs})	-	-	-
Heat output domestic hot water	kW max (Pn)	-	-	-

ErP PRODUCT INFORMATION

NO _x	mg / kWh	31	32	32
NO _x class		6	6	6
Space heating efficiency class		A	A	A
Water heating declared load profile		-	-	-
Water heating efficiency class		-	-	-
Seasonal space heating energy efficiency	%	94	94	94
Sound power level, indoors	dB	47	49	52

ELECTRICAL

Electrical supply	Volts / Hz	230 / 50	230 / 50	230 / 50
Permanent live required		Yes	Yes	Yes
Power consumption	Watts	85	88	91
External fuse rating	Amps	3	3	3
Internal fuse rating		F2AH / 250V	F2AH / 250V	F2AH / 250V
Ingress protection rating		IPX5D	IPX5D	IPX5D
Integral 'boiler only' frost thermostat		Yes	Yes	Yes

COMFORT CONTROLS, EFFICIENCY BOOSTERS & FLUE KITS

Find compatible products at baxi.co.uk/specification

MECHANICAL

Pre-plumb jig		Optional	Optional	Optional
Isolating valves		Yes	Yes	Yes
Gas supply connection	mm	22	22	22
Central heating connections	mm	22	22	22
Domestic hot water connections	mm	15	15	15
Condensate drain connection	mm	21.5	21.5	21.5
Safety discharge connection	mm	15	15	15

HYDRAULIC

Maximum domestic hot water flow rate	l / min at 35°C rise	-	-	-
Domestic hot water operating flow rate (min)*	l / min	-	-	-
Domestic hot water operating pressure (min)	bar	-	-	-
Domestic hot water operating pressure (max)	bar	-	-	-
Central heating safety discharge pressure	bar	2.5	2.5	2.5
Temporary rigid filling link included		No	No	No
Integral automatic boiler bypass		Yes	Yes	Yes
Integral expansion vessel capacity	litres	7	7	7
Maximum capacity of CH system	litres	100	100	100
Compartment ventilation required		No	No	No
CH system inhibitor required		Yes	Yes	Yes
24hr pump exercise		Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes
Heat exchanger material		Stainless steel	Stainless steel	Stainless steel

* Where low flow taps or fittings are intended to be used in the DHW system connected to the boiler, it is strongly recommended the DHW flow rate does not fall below 2.5l / min. This will ensure reliable operation of the DHW function.

CONCENTRIC FLUE SYSTEM

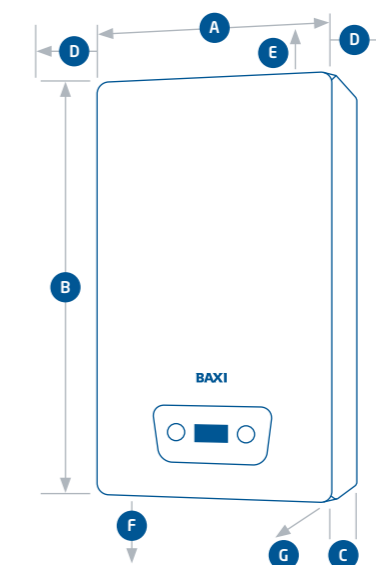
Concentric flue diameter	m	60 / 100 & 80 / 125	60 / 100 & 80 / 125	60 / 100 & 80 / 125
Standard horizontal telescopic flue kit length (60 / 100)	mm	315-500	315-500	315-500
Internal fit telescopic flue & elbow kit length (short / long)	mm	300-470 & 420-690	300-470 & 420-690	300-470 & 420-690
Maximum equivalent horizontal / vertical length (60 / 100)	m	10	10	10
Maximum equivalent horizontal / vertical length (80 / 125)	m	20	20	20
Equivalent length per 135° bend	m	0.5	0.5	0.5
Equivalent length per 90° bend	m	1	1	1

DIMENSIONS AND SERVICE CLEARANCES

A Boiler width	395mm
B Boiler height	700mm
C Boiler depth	285mm
D Side clearance	2.5mm
E Upper clearance	178mm
F Lower clearance	150mm
G Front clearance (in operation)	5mm
G Front clearance (for servicing)	450mm

Service clearances shown here are the minimum recommended dimensions. Greater clearance will aid installation and maintenance.

UNITS	515 System 2	518 System 2	524 System 2
	Optional	Optional	Optional
	Yes	Yes	Yes
mm	22	22	22
mm	22	22	22
mm	15	15	15
mm	21.5	21.5	21.5
mm	15	15	15
l / min at 35°C rise	-	-	-
l / min	-	-	-
bar	-	-	-
bar	-	-	-
bar	2.5	2.5	2.5
	No	No	No
	Yes	Yes	Yes
litres	7	7	7
litres	100	100	100
	No	No	No
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	Yes	Yes
	Stainless steel	Stainless steel	Stainless steel



INSIDE THE BOILER



How we can help you

With Baxi, the heating system is only part of the story. We're also passionate about giving you the service and support you need, for the lifetime of your Baxi product.

Baxi Design

Our design service team will plan and configure installations around each property's unique requirements, free of charge.

Baxi Genuine Parts

We have a full range of approved spares and quality heating essentials for all Baxi Assure products. Visit baxi.co.uk/genuineparts for more information.

Literature and BIM libraries

We have installation instructions, user guides and BIM files for our product ranges, available at baxi.co.uk/specification

Unique service plans

We provide comprehensive homeowner maintenance and support plans.

Product training

We offer practical, hands-on courses, covering all Baxi Assure products. They're carried out by qualified experts at our state-of-the-art training centres nationwide. Visit baxi.co.uk/assuretraining or speak to your Business Development Manager to find out more.

Baxi Project Hub

Baxi Project Hub is our intuitive project management portal, where specifiers and contractors can register warranty and Gas Safe notifications for Baxi Assure installed products.

There's also the Project Hub app, so that warranty registrations and Gas Safe notifications can be done on site. Visit baxi.co.uk/projecthub or speak to your Business Development Manager to find out more.

Expert service and support

We're always here to help with product queries, installations and maintenance. Visit baxi.co.uk/trade/technical-support or call our Technical Support Helpline on **0344 871 1525** for more information.

For everything else

Contact your Business Development Manager or Specification Manager at baxi.co.uk/assure for more information.

Baxi Assure, The Complete Home Service

As the UK moves towards a carbon neutral future alongside an ever growing demand for housing, providers are having to take a fresh approach. That means more tenanted social housing, and more economical, energy-efficient new homes.

With our fresh approach, we'll make sure we deliver the reliable, efficient heating and hot water solutions our specification partners need – for today and tomorrow.

The Baxi Assure range of solutions does just that, with a broad range of boiler, cylinder, air source heat pump and low-carbon product packages to suit any new build or refurbished property.

Find out more at baxi.co.uk/specification

BAXI

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HEATRAESADIA

MAIN
HEATING

POTTERTON
COMMERCIAL

Residential and
commercial heating
and hot water solutions