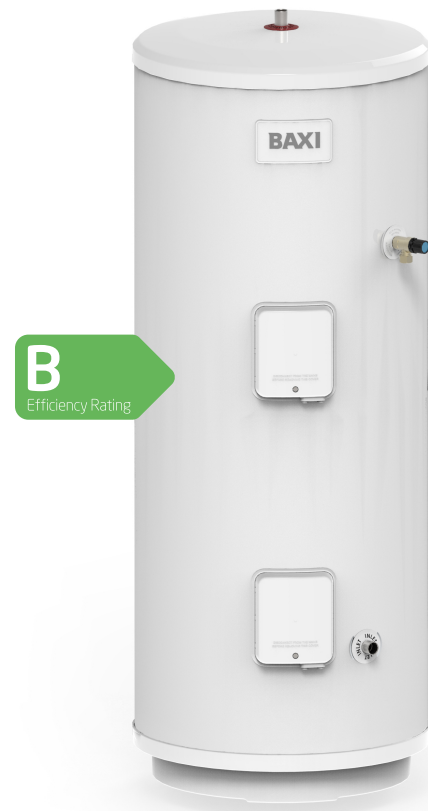


Baxi Assure Direct

Unvented hot water cylinder

Heating, storing and delivering water across multiple outlets, the Baxi Assure Direct cylinder delivers market-leading performance, reliability and affordability whilst being kind to the environment. The internal expansion system means it is easy to install with no unsightly external expansion vessels.



**RAPID
RECOVERY
TIME**



**10 YEARS
CYLINDER
WARRANTY***



**INTERNAL
EXPANSION
SYSTEM**

Versatile

- Available in volumes of 70, 125, 145, 170, 210, 250 and 300 litres
- A model to suit all house sizes and hot water requirements

Easy to install

- Extra-compact models for particularly small spaces
- The internal floating baffle expansion system saves space and makes installation easier

Reliable

- 10 year warranty for extra peace of mind
- Built with corrosion-resistant, high-quality components
- Designed and manufactured in the UK

Efficient

- Our unique L-shaped immersion heater maximises the volume of hot water available
- Heat-retaining, CFC/HCFC-free injected foam insulation helps save energy and boost SAP ratings
- Delivers up to 76 litres per minute of hot water at 3 bar pressure
- Coil-in-coil heat exchanger gives exceptionally fast recovery times

Compatible with...

- Baxi Assure System – wall-hung gas or LPG boiler
- Baxi Assure Heat – wall-hung heat-only gas boiler

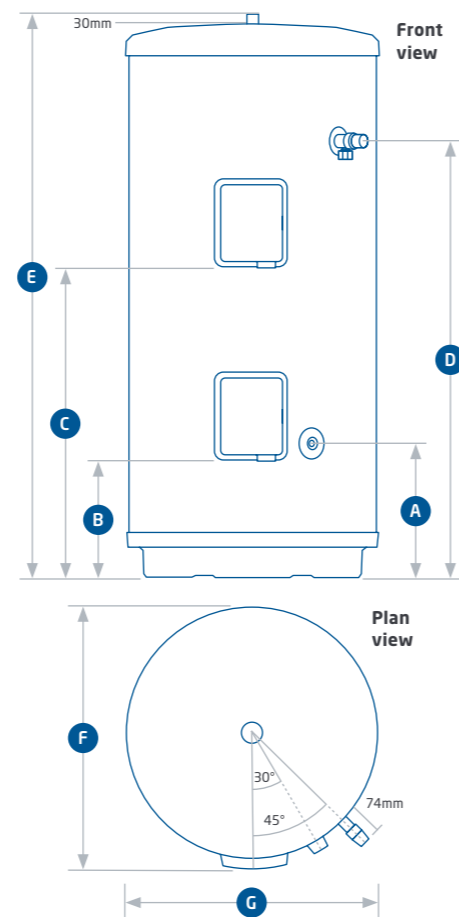
* See baxi.co.uk for terms and conditions.

Technical details

	UNITS	70D	125DD	145DD	170DD	210DD	250DD	300DD
Product code		7737164	7737165	7737166	7737167	7737168	7737171	7737175
SPECIFICATION								
Nominal capacity	litres	70	125	145	170	210	250	300
Internal expansion with floating baffle		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Insulation thickness	mm	60	60	60	60	60	60	60
Immersion heater rating	No. x kW	1 x 3	2 x 3	2 x 3	2 x 3	2 x 3	2 x 3	2 x 3
Weight empty	kg	23	25	31	34	38	46	56
Weight full	kg	115	165	183	216	237	282	339
Standing heat loss (daily)	kWh / 24h	0.91	1.05	1.18	1.2	1.42	1.61	1.69
Standing heat loss (yearly)	kWh / year	332.15	383.25	430.2	438	518.3	587.65	616.85
Max flow at 3 bar	l / min	76	76	76	76	76	76	76
Max flow at 1 bar	l / min	45	45	45	45	45	45	45
Heat up time using all available elements	mins	92	71	79	93	102	121	146
ErP PRODUCT INFORMATION								
Storage volume at 3 bar	litres	92	140	155	182	199	199	199
Mixed water at 40°C V40	litres	78	167	183	218	241	241	241
Declared load profile		M	M	M	L	L	L	XL
Water heating energy efficiency class		B	B	C	C	C	C	C
Water heating energy efficiency	%	38.6	39.2	37.5	38.2	37.5	37.8	37.7
Annual electricity consumption	kWh	3,341	1,311	1,369	2,682	2,731	3,513	4,443
Daily electricity consumption	kWh	6.11	6.01	6.35	12.38	12.67	20.48	20.58
Factory-set water heater thermostat temperature	°C	60	60	60	60	60	60	60

CYLINDER DETAILS

Maximum supply pressure to incoming mains cold water combination valve (supplied)	1.6 MPa (16 bar)
Minimum recommended supply pressure and flow rate	0.15 MPa (1.5 bar) - 20 litres per minute
Operating pressure	0.3 MPa (3 bar)
Inner water container	High-grade duplex stainless steel pressure tested to 15 bar
Thermal insulation (nominal thickness 60mm)	CFC/HCFC-free, fire-retardant expanded polyurethane foam with zero ozone depletion; Global warming potential (GWP) = 3.1
Pressure relief valve	0.8 MPa (8 bar)
Immersion heater rating (AC supply only)	3kW at 240V; 2.8kW at 230V
Connections	22mm compression / ¾" BSP
Domestic Hot Water Expansion	Accommodated by an internal air gap system complete with a floating baffle, negating the need for an external expansion vessel
ACCESSORIES	
Swept Tee for Direct Secondary Return	94 970 033



	210DDD	250DDD	300DDD	210DDDD	250DDDD	300DDDD
Product code	7737169	7737172	7737176	7737170	7737173	7737177
Nominal capacity	210	250	300	210	250	300
Internal expansion with floating baffle	Yes	Yes	Yes	Yes	Yes	Yes
Insulation thickness	60	60	60	60	60	60
Immersion heater rating	3 x 3	3 x 3	3 x 3	4 x 3	4 x 3	4 x 3
Weight empty	39	47	57	40	48	58
Weight full	237	282	339	237	283	339
Standing heat loss (daily)	1.42	1.61	1.69	1.42	1.61	1.69
Standing heat loss (yearly)	518.3	587.65	616.85	518.3	587.65	616.85
Max flow at 3 bar	76	76	76	76	76	76
Max flow at 1 bar	45	45	45	45	45	45
Heat up time using all available elements	68	81	97	51	60	73
COMPONENTS						
The following components are supplied as standard with Baxi Assure Direct:						
Immersion(s)	Factory-fitted immersion heater(s) and thermal controls; Titanium elements					
Cold water	Cold water inlet control kit comprising of 0.3 MPa (3 bar) pressure reducing valve, 0.8 MPa (8 bar) pressure relief valve (BS EN 1567, BS EN 1491, EN 13959); ¼ turn isolating valve, line strainer, non-return valve, drain valve with hose connector, nuts and olives					
Safety	Factory-fitted temperature and pressure relief valve set at 90°C / 1 MPa (10 bar) (BS EN 1490) including T&P valve insulation kit; 15 / 22mm Tundish					
DIMENSIONS						
A DHW inlet (mm)	414	414	414	414	414	414
B Cable entry lower (mm)	275	275	275	275	275	275
C Cable entry upper (mm)	-	549	580	705	801	1,009
D T&P relief valve (mm)	495	794	895	1,020	1,095	1,323
E Height (mm)	802	1,102	1,229	1,384	1,486	1,738
F Depth (mm)	600	600	600	600	600	600
G Width (mm)	579	579	579	579	579	579

CODES OF PRACTICE AND LEGISLATION

EU Directives:

- Pressure Equipment Directive 97/23/EC
- Low Voltage Directive (LVD) 2014/30/EU
- RoHS (Restriction of use of certain Hazardous Substances) Directive 2011/65/EU
- Electromagnetic Compatibility (EMC) Directive 2014/35/EU.

Legislation:

- Building Regulations Part G and Part L (England and Wales)
- Scottish Building Standards Section 4 and Section 6
- Building Regulations (Northern Ireland) Parts F1 and F2 and Part P
- Water Supply (Water Fittings) Regulations (England and Wales)
- The Water Byelaws 2004 (Scotland).
- Water Supply (Water Fittings) Regulations (Northern Ireland).

Standards: Relevant clauses of the following standards are complied with:

- EN 12897 - Specification for indirectly heated unvented cylinders
- EN 60335-2-21 - Safety-Particular requirements for storage water heaters.

The stainless steel materials used comply with the relevant clauses of:

- EN 10088 - Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes.

Components supplied comply with the following standards:

- BS EN 1490 Building Valves - Combined Temperature and Pressure Relief Valves
- BS EN 1491 Building Valves - Expansion Valves
- BS 6144 Specification for Expansion Vessels Using An Internal Diaphragm For Unvented Water Supply Systems
- BS EN 1567 Building Valves - Water Pressure Reducing Valves and Combination Reducing Valves
- BS EN 60730-1 Automatic Electrical Controls - For households and similar use. Part 1: General Requirements
- BS EN 60730-2-8 Automatic Electrical Controls - Particular Requirements for Electrically Operated Water Valves
- BS EN 13959 Anti-pollution Check Valves.

The use of these water heaters will aid in compliance with:

- Health and Safety Executive Approved Code of Practice L8: The control of legionella bacteria in water systems
- BS EN 806 Parts 1 to 5: Specification for installations inside buildings conveying water for human consumption
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings
- Chartered Institute of Building Services Engineers Guide B and Guide F.

Manufactured in a factory approved to:

- BS EN ISO 9001; OHSAS 18001; ISO 50001; ISO 14001.

Baxi Assure approvals:

- Kiwa Certification Number: 1608707
- Nemko Certification Number: P10213136/A6.



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 maintenance plans

We provide comprehensive homeowner maintenance and support plans.

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.

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.

Expert service and support

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

For everything else

Contact your Business Development Manager at baxi.co.uk/assurecontact 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, energyefficient 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 and low-carbon product packages to suit any new build or refurbished property.

Find out more at baxi.co.uk/specification

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