

Heating Hot water Renewables

Technical
information

uniSTOR pure direct cylinder range



About Vaillant



The Vaillant Group

Vaillant UK is proud to be part of the worldwide heating and hot water corporation Vaillant Group, a family-owned business that was founded by Johann Vaillant in his workshop in Remscheid, Germany in 1874.

Over 150 years ago, Johann patented a new closed-system gas-fired bathroom boiler which was the first heating product manufactured by Vaillant. Through the years, Vaillant's technical innovations have continued. We launched a central heating boiler in 1924 which was marketed alongside the classic gas-fired water heaters. It was the beginning of central heating as we know it today. And, in 1967 'Combi Geyser' was launched which combined central heating and hot water supply for the first time ever.

Since these revolutionary inventions, Vaillant has continued to drive the evolution of heating technologies. In 2020, Vaillant launched the first air source heat pump using R290 refrigerant, the game-changing aroTHERM plus. At Vaillant, we consistently create new cutting-edge products, while always striving to put our customers first. Our continued support in the gas boiler market includes the next generation ecoTEC plus, which is designed for ease of installation, and incorporates digital technology to ensure maximum efficiency for the end user.

Today, Vaillant is still setting the standard in the heating industry, focused on delivering full heating system solutions that will stand the test of time, whilst supporting installers, specifiers and commercial partners for life. Through developing highly efficient heating appliances, digital heating solutions and providing excellent training offerings that are truly crafted with our customers' needs at heart.

Setting the standards since 1874



Manufacturing at its finest

By choosing our heating appliances, you will get an unwavering commitment to deliver the high standard of products and services that you expect from Vaillant.

Our two UK manufacturing sites have state-of-the-art facilities that produce market leading products. We are proud to have been awarded the prestigious RoSPA President's Gold Award for world class health and safety excellence for ten consecutive years. Vaillant has exceptionally high standards in manufacturing to ensure we make outstanding, reliable products that meet ISO 9001, 18001 and 14000.

Which? Recommended Brand for Gas Boilers

The award recognises that Vaillant's products are designed with quality craftsmanship, tested for longevity, and supported by high levels of customer satisfaction. This reflects Vaillant's ongoing commitment to innovation, industry-leading standards, and customer care.



uniSTOR pure direct cylinder

Unvented electric hot water solution



Vaillant’s uniSTOR pure direct electric domestic hot water cylinders are designed for quick, easy installation. Manufactured in Derbyshire and designed for the UK market, the new range of direct cylinders support off-gas solutions.

Features and benefits

- 25

year

25-year guarantee*

2-year parts and labour guarantee, with a 25-year anti-corrosion guarantee on the internal stainless-steel tank.
- Labelled connections for simplicity**

Easy-to-recognise, giving onsite guidance for installation and maintenance. Hot and cold water 22mm connections are clearly identified in the front third of the cylinder, with a maximum 5mm clearance at the back for cupboard fit.
- Slimline and standard range options available**

The slimline models are available in 90, 120, 150, 175 and 210 litre capacities with a compact 490mm diameter. For installations requiring larger storage, the standard diameter models are available in 250 and 300 litre capacities with a 580mm diameter.

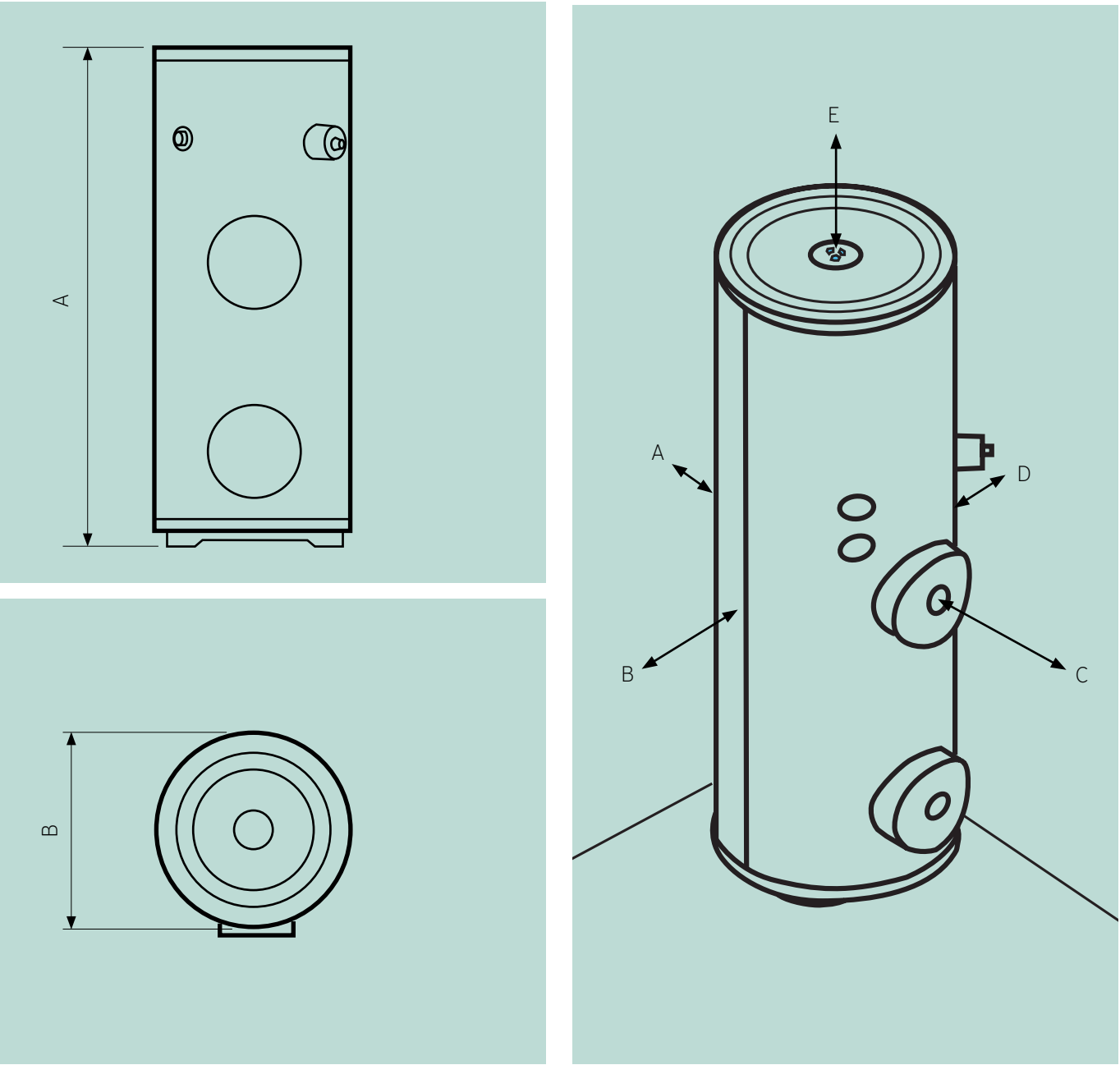
- External expansion vessel**

The uniSTOR pure direct cylinder offers an external expansion vessel.
- Strength and corrosion resistance**

Each cylinder features either one or two 3kW titanium heating elements as standard to ensure performance is optimised even in aggressive water conditions. The 304 duplex stainless steel inner tank ensures strength and corrosion resistance, while front-facing bosses make connections straightforward with ease of access.
- Carry handle included with every cylinder**

Allows for easy 2-person lifting and manoeuvring into tight spaces. A belt has been included with every cylinder, helping prevent movement or damage and to ensure stability after installation.

Dimensions and clearances



uniSTOR pure direct	Unit	Dimension A	Dimension B
90l	mm	990	490
120l	mm	1400	490
150l	mm	1520	490
175l	mm	1745	490
210l	mm	2000	490
250l	mm	1796	580
300l	mm	2021	580

Minimum clearances	Unit	Dimension
A	mm	5
B	mm	85
C	mm	400 (infront of boss)
D	mm	25
E	mm	5

The key clearance is in front of the immersion heater boss (C) to facilitate the removal of the heating element.

All water connections front facing.

The cylinder maximises cupboard space, as it can be situated very close to the back and side walls.

Maximum angle 10° from vertical.

Technical specification

Technical data	Unit of measure	90l	120l	150l	175l	210l	250l	300l
Cylinder type		Slimline					Standard	
Net weight (empty cylinder)	kg	23	30	35	39	45	49	60
Filled weight	kg	119	155	190	218	255	309	354
Insulation thickness	mm	50					60	
Total tank capacity	l	97	127	156	182	210	261	294
Hot water capacity / draw off* (V40)	l	138.5	198.5	232.6	272.4	294.6	363.6	421
Energy-related Products (ErP)	A++-F	C					C	
Re-heat time (70%)	Minutes	31	37	59	66	76	96	114
Maximum operating heat circuit temperature	l/h	85					85	
Size of supplied expansion vessel	L	12			18		25	
Immersion heater rating	kW	3					3	
Immersion heater cable size	mm	1.5					1.5	
Immersion heater current	A	13					13	
Standby losses	kWh/24h	1.31	1.39	1.44	1.76	2.06	1.69	1.8
Annual consumption	kWh	2683	2751	2718	2694	2651	4309	4243

* Based on +/- 15% immersion(s) set to 60°C.

Article numbers

Cylinders	Article number
uniSTOR pure direct cylinder 90l	8000011646
uniSTOR pure direct cylinder 120l	8000011647
uniSTOR pure direct cylinder 150l	8000011648
uniSTOR pure direct cylinder 175l	8000011649
uniSTOR pure direct cylinder 210l	8000011650
uniSTOR pure direct cylinder 250l	8000011637
uniSTOR pure direct cylinder 300l	8000011638

Notes

Contacts

Sales enquiries

Vaillant sells its products through plumbing and heating merchants in the UK. For further information, contact your local Vaillant sales representative.
Phone: **0345 602 0262**

Training

For information on training centres and courses in your area.
Phone: **0345 601 8885**
Email: **training@vaillant.co.uk**

Technical enquiries

If you have a technical query, you can contact us by phone or email.
Phone: **0344 693 3133**
Email: **technical@vaillant.co.uk**

myREWARDS support line

There's a Regional Business Manager near you to support your business, along with dedicated myREWARDS support lines. Call us: **0330 678 0878** or
Email us: **myREWARDS@vaillant-group.com**

General enquiries

If you are unsure of who you need to speak to or you have a general enquiry, our friendly reception staff will happily point you in the right direction.
Phone: **0345 602 2922**

System Sales and Design

At Vaillant, our expert System Sales and Design (SSAD) team provides installers with comprehensive heating system design support on their projects.
Phone: **0330 123 1767**
mail us: **systemdesignuk@vaillant.com**



Heating



Hot water



Renewables

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