

thermoCOMPACT



High performance
system boiler range



Built-in performance

The expectations of today's system boiler have never been more demanding, which is why Vaillant's thermoCOMPACT range comes with even more quality features built in.



Since 1874 Vaillant has engineered products which provide customers with unrivalled value; products designed to meet and exceed expectations at every level.

The thermoCOMPACT range of gas-fired system boilers follows this great Vaillant tradition. Featuring the quality and reliability you'd expect from Vaillant - with efficiency and performance to match - the thermoCOMPACT delivers unique value all round.

And with all the major system components built in, installation is quick and neat, saving not only time, but also the cost of purchasing additional components. There's even a two year guarantee built in too.†

The thermoCOMPACT range is available in 15kW, 20kW, 24kW, 28kW and 37kW output models, providing the ideal solution for any domestic application.



The mark of quality for domestic heating

Vaillant is a member of the Benchmark initiative and fully supports the aims of the programme. Benchmark has been introduced to improve the standards of installation and commissioning of central heating systems in the UK and to encourage the regular servicing of all central heating systems to ensure safety and efficiency.

† The 2 year guarantee covers against manufacturing defects and provides for the replacement of defective parts with new parts and any related labour costs, providing that such works are carried out by a Vaillant Engineer or Vaillant appointed agent. For the guarantee to be valid an annual service must be carried out by a CORGI registered installer. The cost of this annual service is not included in the guarantee.



At home in any kitchen

The compact dimensions and styling of the thermoCOMPACT means that the boiler blends in with kitchen cupboards and the rear flue outlet option also means no elbow is visible above the boiler.

Easy installation

Installation couldn't be simpler, with clip distance pipework connections, and all major system components built in.

Simple commissioning and servicing

The thermoCOMPACT has been designed to make commissioning and subsequent service work much easier, featuring a comprehensive, built-in status and diagnostic display system as well as clear access to all components.

Quality and reliability It's all built in

The major system components and features built into every thermoCOMPACT boiler are designed and produced to exacting quality standards - providing the best in reliability, efficiency and performance.



2 year
guarantee

Main heat exchanger

Designed to ensure maximum efficiency and durability



Built-in expansion vessel

Means no separate feed and expansion tank or associated pipework are required



Built-in automatic bypass

Automatic in operation; no on-site adjustment required



Boiler display system

Provides status and diagnostic information for easy commissioning and servicing



Single electronic circuit board

For simplicity and reliability



Push-fit flueing

Both top turret and rear outlets



Full modulating low NOx burner

Exactly matches heat output to central heating and hot water demand - automatically



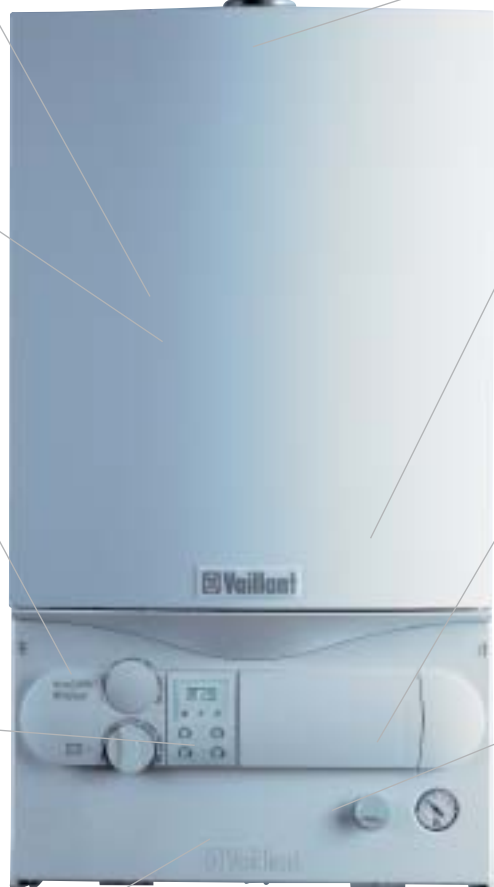
Built-in automatic air vent

Means no air separator is required



Built-in circulation pump

Factory fitted; no on-site installation or adjustment required



Built-in value

for easier installation

The value-added features built into the thermoCOMPACT mean there is no need for additional system components, keeping installation time to a minimum.



More built in

With all major system components built in, the thermoCOMPACT provides a quicker, neater and more reliable installation.

Built-in expansion vessel for sealed system operation so that no separate feed and expansion tank is required.

Built-in automatic air vent means that no air separator is required.

Built-in circulation pump means no on-site connections or adjustments are required.

Built-in automatic bypass valve means no other components or adjustments are required.

Built-in savings

- £50 worth of system components built in
- 1½ hours of installation time saved

With all the major system components built in, installing a thermoCOMPACT means real savings all round. Typically, the additional components required to fit a conventional boiler can add over £50, with extra installation time of around 1½ hours. In addition, the thermoCOMPACT provides a neater and more reliable installation, suited to both new and refurbishment projects.

Built-in protection

The thermoCOMPACT has a 2 stage frost thermostat built in. The pump, and if necessary the burner, will operate automatically to protect against frost whilst minimising gas consumption.

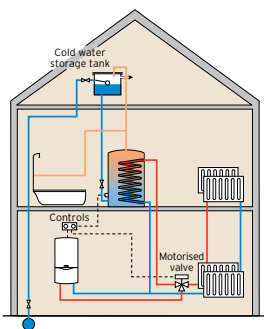
Built-in connections

All system isolating valves are built into the boiler and the pre-formed copper tails supplied allow connection at pipe clip distance from the wall.

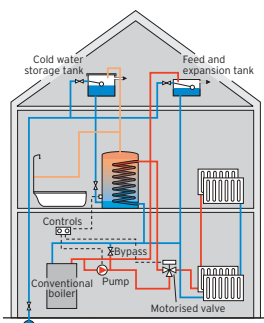
The self-sealing flue connections of the new push-fit flue system, together with optional telescopic accessories allow quicker and easier installation. The flues also have an attractive white finish. And, for even easier installation, the thermoCOMPACT features simple, built-in electrical connections.

Built-in simplicity

All thermoCOMPACT boilers are set and checked at the factory so they do not need any further adjustment. Boiler status and diagnostic information is shown on a special display for straightforward commissioning and servicing. In addition, the drop-down control box provides easy access to all components, facilitating service work.



thermoCOMPACT



Conventional system

Optional controls and accessories



VRT 30 Room thermostat

This compact room thermostat keeps the room temperature at the desired comfort level. Proper control of heating can also reduce heating costs. For example, a 1°C reduction in room temperature can save up to 10% on heating costs. The VRT 30 is suitable for use in 230 V external control systems.



Programmable digital room thermostat - VRT 230

This room thermostat offers full digital time and temperature control of central heating and operates in either 24 or 7 day mode, with 3 independent time windows per day. Built-in functions include night setback and holiday programmes with a manual override facility.

Top connection spacer frame

Allows pipework to be run behind boiler to above for top connection.

Optional pipe cover

This neatly conceals the pipework below the boiler. It's ideal for installations above a kitchen worktop and is quick and easy to install.

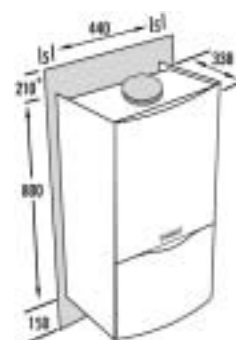
At home anywhere

The size and styling of the thermoCOMPACT means it has great flexibility of siting and allows installation in almost any situation.



The compact dimensions and specially shaped casing means that the boiler blends in with kitchen cupboards for a neat installation. It needs just 5mm side clearance and no compartment ventilation and so is ideal for confined spaces, cupboards or compartments. The rear outlet flue option also allows the top clearance to be reduced to just 100mm for when space above the boiler is at a premium.

Whether it's in the kitchen, in a cupboard or a corner in the utility room, the thermoCOMPACT is always at home.



*100mm with rear flue option

Flues and flue accessories

Maximum flue lengths*	615E	620E	624E	628E	637E
Standard horizontal 100mm diameter ¹	5.3m	5.3m	4.5m	3.2m	3.2m
Standard vertical 100mm diameter ¹	6.3m	6.3m	5.3m	4.3m	4.3m
Optional horizontal 125mm diameter ²	12.9	12.9	12.9m	10.0m	10.0m
Optional vertical 125mm diameter ²	15.4	15.4	15.4m	12.5m	12.5m

Description	Standard flue system (100mm diameter)	Optional flue system (125mm diameter)
Horizontal air/flue duct with elbow and terminal (750mm)	303807	N/A
Horizontal air/flue duct with elbow and terminal (1000mm)	N/A	303609
Telescopic horizontal air/flue duct with elbow and terminal (450-650mm)	303806	N/A
Rear outlet flue and terminal	303817	N/A
Vertical air/flue duct and terminal	303800	303600
Appliance flue outlet adaptor (100mm Ø to 125mm Ø)	N/A	303814
Flat roof penetration collar	9056	9056
Pitched roof adjustable roof tile	9076	9076
Flexible roof tile	N/A	303980
90°/87° elbow	303808	303610
Two 45° bends	303809	303611
Air/flue duct (adjustable) offset (33-56mm)	303819	N/A
Air/flue duct extension (480mm)	303801	N/A
Air/flue duct extension (980mm)	303802	303603
Air/flue duct extension (1940mm)	303803	N/A
Air/flue duct extension (1980mm)	N/A	303605
Telescopic air/flue duct extension (480-770mm)	303804	N/A
Se-duct flue accessory	303810	N/A
Sliding sleeve	303816	303617
Flue support clips (box of 5)	303821	303616
Adjustable flue support clips	N/A	303935

Horizontal RSF flue



Horizontal air/flue duct with elbow and terminal

Vertical RSF flue

Vertical air/flue duct and terminal



Flexible pitched roof seal



Flat roof penetration collar



Horizontal & Vertical RSF flue



Telescopic air/flue duct extension



Flue support clips

There are two flue systems available for thermoCOMPACT boilers. The standard flue system has a diameter of 100mm and accessories are available to connect to either the top flue outlet on the boiler, or the rear outlet for direct through the wall installations.

Telescopic terminal and extension accessories are available to make installation easy. There is also an optional larger diameter 125mm system allowing longer flue lengths to be achieved.

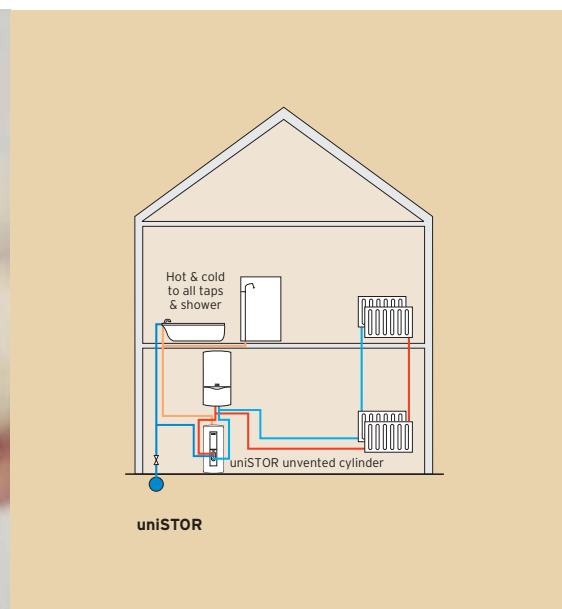
All flues feature simple push-fit connections and a smart white finish.

*Measured to the end of the horizontal / vertical terminal

1. The maximum length must be decreased by 1 metre for each additional 90° elbow or pair of 45° bends
2. The maximum length must be decreased by 2.5 metres for additional 87° elbow and 2 metres for each pair of 45° bends

uniSTOR

unvented cylinders



uniSTOR is a new range of six high grade stainless steel unvented cylinders from Vaillant. Finished with a stylish casing they are available in a range of sizes from 125L to 310L. uniSTOR can be used with proprietary system boilers, however when installed with Vaillant boilers such as thermoCOMPACT a total heating and hot water solution is provided.

uniSTOR features a high recovery heating coil and insulation which exceeds CH&SS best practice. All seams are laser welded and the shell is backed up by a 25 year warranty.

- uniSTOR cylinders operate using a mains water pressure supply and do not require a feed from a cold water storage tank
- all necessary cold and hot water controls and a 2-port valve for control of domestic hot water are supplied
- all uniSTOR cylinders are backed by a full 2 year guarantee as well as a 25 year guarantee on the cylinder shell

Typical applications	
Single bathroom property	uniSTOR 125
Single bathroom property with an en-suite shower room	uniSTOR 125 / 155
Two bathroom property	uniSTOR 155 / 180
Two bathroom property with an en-suite shower room	uniSTOR 180 / 210
Larger properties	uniSTOR 260 / 310

Technical specification

uniSTOR stainless steel unvented cylinder		125	155	180	210	260	310
External case height	mm	938	1148	1308	1468	1758	2078
External case width	mm	602	602	602	602	602	602
External case depth	mm	554	554	554	554	554	554
Weight approx.	kg	28	30	33	39	44	49



Customer support services



The after sales service and support behind every Vaillant boiler is part of the quality package that has helped Vaillant to build a unique reputation within the industry.

- engineers on call 364 days a year, 7 days a week
- next working day call out policy
- feedback to installer for installer booked in-warranty calls
- end user courtesy telephone call post engineer visit

Extended opening hours :
Mon - Fri 8am - 8pm
Sat - Sun 9am - 4pm

For more details just call Vaillant Service on **0870 6060 777**.

Vaillant offers an extensive range of training courses at five fully equipped training centres strategically located across the country. There are courses covering our entire product range and as well as tailor-made and specialist equipment training, we offer a course specially designed to improve sales skills. We are also an approved provider of ACS assessment and the Certificate in Energy Efficiency for Domestic Heating.

For full details of our current courses please contact our Training Department.

Contact details

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Sat - Sun 9.00am - 4.00pm

Website **www.vaillant.co.uk**

Technical Specification

	thermoCOMPACT System Boilers				
	615E	620E	624E	628E	637E
Flue type	RSF	RSF	RSF	RSF	RSF
CH heat output range kW (80°C flow/60°C return) (Btu/h)	6.5 - 15.0 (22,300 - 51,200)	7.7 - 20.0 (26,300 - 68,300)	8.9 - 24.0 (30,400 - 81,900)	10.4 - 28.0 (35,500 - 95,500)	10.5 - 36.9 (35,000 - 126,000)
Maximum CH heat input (net) kW (Btu/h)	16.5 (56,100)	22.0 (74,800)	26.7 (91,200)	31.1 (106,200)	40.5 (138,300)
Available pump head bar	0.25	0.25	0.25	0.25	0.21
Expansion vessel size litres	6	6	10	10	10
Connections					
Heating flow/return mm	22 ¹⁾	22 ¹⁾	22 ¹⁾	22 ¹⁾	22 ¹⁾
Gas inlet mm	15 ¹⁾	15 ¹⁾	15 ¹⁾	15 ¹⁾	22 ¹⁾
Pressure relief valve discharge pipework mm	15 ²⁾	15 ²⁾	15 ²⁾	15 ²⁾	15 ²⁾
Electrical connection V/Hz	230/50	230/50	230/50	230/50	230/50
Dimensions					
External case height mm	800	800	800	800	800
External case width mm	440	440	440	440	440
External case depth mm	338	338	338	338	338
External case depth at sides mm	310	310	310	310	310
Weight approx. kg	38	39	41	43	45
LPG model available	-	●	-	●	-
SEDBUK Band	D	D	D	D	D

¹⁾ Copper tail pipe clip distance from wall

²⁾ Compression fitting

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