

aquaPLUS



High performance
combination boiler with
integrated **power store**



Unrivalled performance

The new aquaPLUS combination boiler with integrated **power store** is a new type of appliance, offering the hot water performance benefits of a storage combi, but in a compact and easy-to-fit boiler.



Vaillant is a name that has long been at the forefront of boiler design and technology.

aquaPLUS continues this heritage with a powerful yet compact appliance providing unequalled hot water delivery and comfort from a combination boiler.

With a powerful 37kW output and built-in 15-litre stainless steel **power store**, aquaPLUS delivers superb bath filling and showering performance. This unique design also offers excellent siting versatility and easy installation.

With exceptional build quality from Europe's leading manufacturer, backed up with a full 2-year guarantee†, aquaPLUS delivers a compact solution with unrivalled performance.



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.



High hot water performance

With a flow rate of 13.7 litres/minute (3 gallons/minute) and hot water temperatures up to 65°C, aquaPLUS is the solution for properties with higher hot water demands.

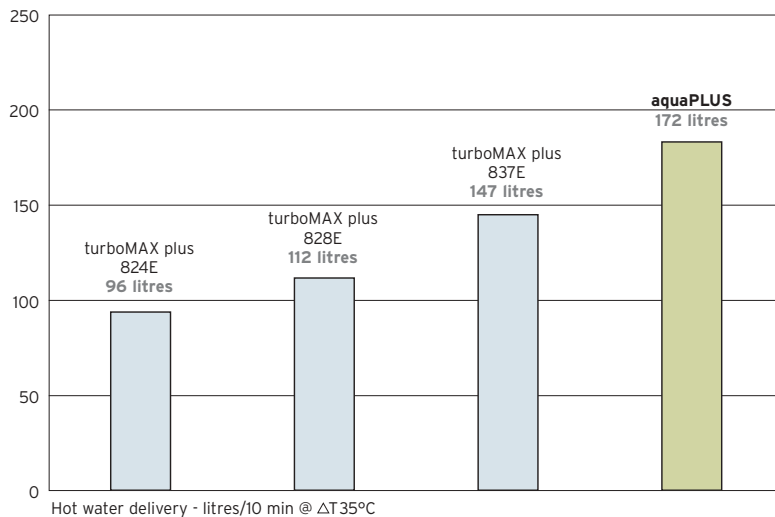
Flexible siting

aquaPLUS occupies only the same wall area as a standard combination boiler. And being both smaller and lighter than a typical storage combi - siting couldn't be easier. The special 15 litre **power store** means that, unlike normal storage combi's, there are no G3 Building Regulation restrictions on siting of discharge pipework.

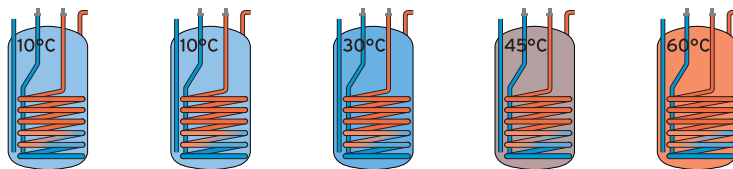
Easy installation

aquaPLUS does not need the installation of additional inlet water controls required by typical storage combi's. The compact case design, pipe clip distance pipework connections, built-in filling loop, automatic system bypass and push-fit flue system allow for a quick and easy installation.

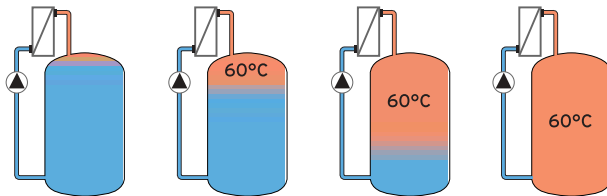
Power and performance



aquaPLUS hot water performance positioning



Typical cylinder charging



aquaPLUS laminar **power store** charging

aquaPLUS is a new concept in combination boilers, further extending hot water performance. The integrated **power store** in aquaPLUS allows the equivalent delivery of an exceptional 172 litres of hot water ($\Delta T=35^\circ\text{C}$) in 10 minutes. The **power store** fully recharges in less than 2 minutes and even with the store depleted, aquaPLUS delivers the hot water performance of a 37kW combi.

Power store

The integral **power store** is the secret behind the outstanding hot water delivery of aquaPLUS. The 15 litre stainless steel store utilises a laminar charging system; unlike a typical storage cylinder, hot water is rapidly available for delivery from the **power store**.

aquaPLUS is thus able to offer the hot water performance of larger conventional storage combi's, but in a compact and easy to fit boiler.

Due to the volume of the **power store**, aquaPLUS requires no additional installer training/registration under G3 Building Regulations.

2 year
guarantee

5 year
anti-scale
guarantee

on all Vaillant
combination boilers

The 5 year anti-scale guarantee provides solely for the replacement of the Domestic Hot Water Heat Exchanger component in the event of lime scale blockage within 5 years from the installation date. The replacement must be carried out by a Vaillant Engineer or Vaillant appointed agent, and labour costs are not included in this guarantee.

Quality and reliability

from the combi pioneer

Power store
15 litre stainless steel laminar storage system



Fully modulating low NOx burner
Designed to ensure maximum efficiency and durability



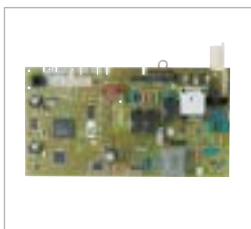
Domestic heat exchanger
Stainless steel construction with large surface area to provide rapid hot water delivery and efficient operation



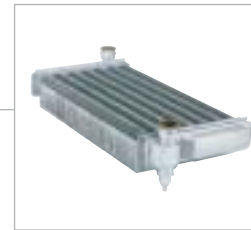
Power store pump
Circulates water from domestic heat exchanger to power store



Single electronic circuit board
For simplicity and reliability



Push-fit flue
White finished standard Vaillant non-condensing flue system with multi-directional turret



Main heat exchanger



Boiler display system
Provides status and diagnostic information for easy commissioning and servicing



Secondary expansion vessel



Built-in filling loop
For easy filling of the central heating system



Simple installation

and servicing

aquaPLUS has been designed to allow maximum flexibility of siting, which means you can fit it virtually anywhere.

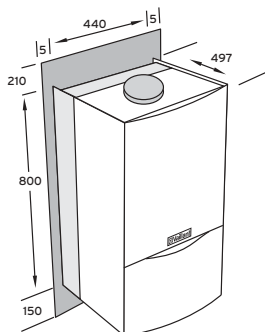
With compact dimensions, minimal side clearances and no requirement for compartment ventilation, aquaPLUS is always at home. Utilising the standard Vaillant non-condensing flue system, a range of extensions and accessories are available for horizontal and vertical requirements. See back cover for flue accessory listing.

Simple connections

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

An automatic system bypass is incorporated in the boiler, so there is no need to install and adjust a separate bypass.

A built-in frost thermostat automatically operates the pump, and, if needed the burner, providing frost protection and minimising gas consumption.



Simple to operate and commission

All boilers are factory set and checked and require no adjustment. aquaPLUS features a boiler display system which shows status and diagnostic information for easy commissioning and subsequent service work.

Normal mode

Displays boiler flow temperature



Status mode

For a quick functional check during commissioning



Fault mode

Highlights system problems at a glance (eg. F.28: no gas supply)



Diagnostic mode

Displays key component operating information



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.

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Website www.vaillant.co.uk

Optional controls and accessories



Central heating timers

Two optional plug-in timers - 24 hour analogue and 7 day digital. These are simply plugged in to the Vaillant combination boiler control panel and provide easy to use control of central heating. The 7-day version includes a second channel to control the 'AquaComfort' system.



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.



Wireless programmable digital room thermostat

The perfect solution for installations where running cable between boiler and thermostat is not practical. Designed for use with all current combination boilers, the VRT 340f is supplied with a plug-in receiver unit and communicated with the room thermostat via a radio link. Includes a second channel to control the 'AquaComfort' system.



Flues and flue accessories

Maximum flue lengths*	aquaPLUS
Standard horizontal 100mm diameter ¹	3.2m
Standard vertical 100mm diameter ¹	4.3m
Optional horizontal 125mm diameter ²	10.0m
Optional vertical 125mm diameter ²	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 aquaPLUS plus boilers. The standard flue system has a diameter of 100mm and 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

Technical Specification

	aquaPLUS
Maximum DHW heat output kW	36.9
CH heat output range (80°C flow/60°C return) kW	10.5 - 32.0
Maximum CH heat input (net) kW	35.2
Maximum DHW heat input (net) kW	40.5
Maximum set hot water flow rate litres/min	13.7
Mains water pressure required for max flow rate bar	0.7
Hot water delivery ($\Delta T 35^{\circ}\text{C}$ equivalent) litres/10 mins	172
Hot water temperature adjustment range $^{\circ}\text{C}$	50 to 65
Electrical supply V/Hz	230/50
Flue type	RSF
Dimensions	
External case height (excl. flue) mm	800
External case width mm	440
External case depth mm	497
Weight approx. kg	56
SEDBUK Band	D

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