

Vaillant brand.

This brochure has been designed to provide all the information needed

This brochure has been designed to provide all the information needed to select your next heating and hot water system. Should you need any additional information please contact us to see how we can help.

Domestic and commercial heating

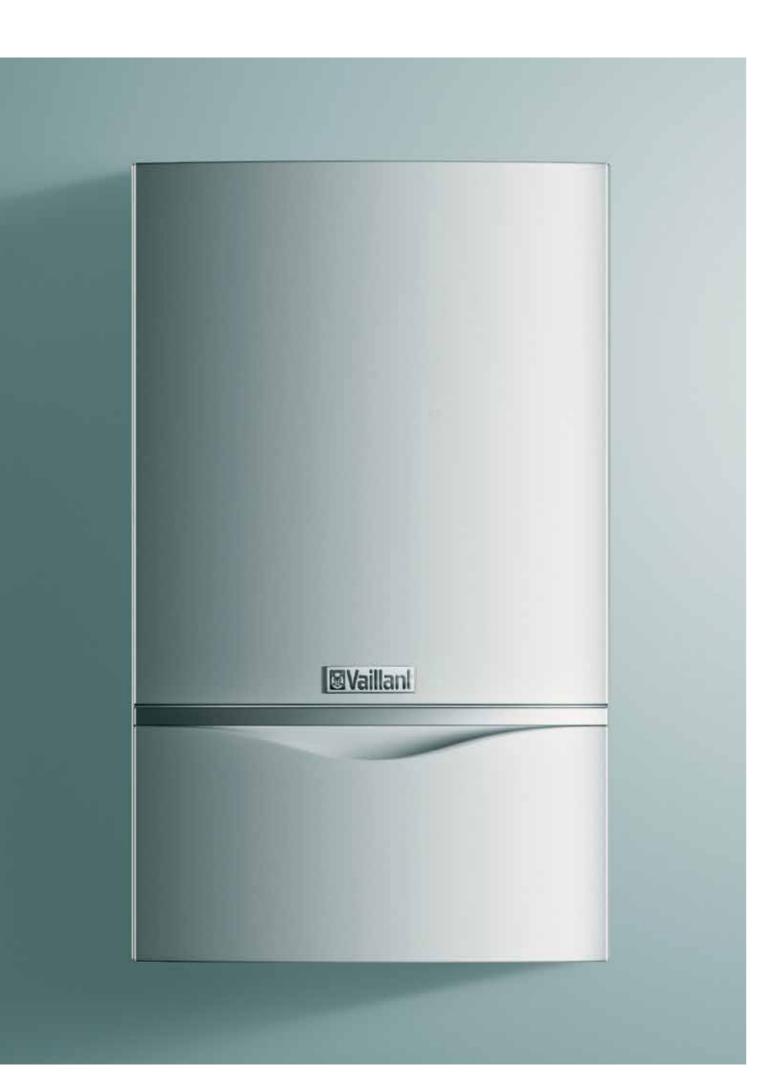
For both domestic and commercial heating, our products boast the highest energy efficiency ratings and lowest emissions. At the same time we continue to develop new solutions that further simplify boiler installation, commissioning and servicing and ease of use, both at home and in the workplace.

Renewable energy

The Vaillant solar domestic hot water system is the most advanced complete solar heating system available. As constant innovators committed to renewable energy, Vaillant are always developing new products such as the geothermal heat pump which uses the natural heat stored in the earth to help provide hot water for your home.

You can be sure that when it comes to creating the ideal environment, Vaillant has it all under control.

Contents	
coTEC exclusive	4
coTEC plus 937	6
coTEC plus combination	8
coTEC plus system	10
coTEC plus open vent	12
coTEC pro combination	14
lue guide	16
coLEVEL	23
Controls	24
ıniSTOR cylinders	28
otal system solution	30
otal solar system solution	32
Service and training	34
echnical specifications	38



Combination boilers

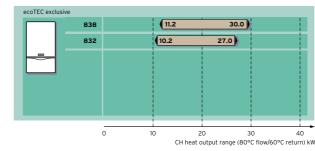
ecoTEC exclusive

The two ecoTEC exclusive combination boilers feature an innovative low energy pump and eBUS electronics, which allows the use of the full range of Vaillant energy saving controls. For use with sealed heating systems both models • Easy wiring are SEDBUK band A rated, have a 3 year warranty and offer outputs of 32 and 38kW DHW and 27 or 30kW CH. The stylish appearance includes an intuitive user interface • Compatible with wide range of existing controls with back light and plain text display, making it an attractive addition to any household.

ecoTEC exclusive key features

- 2 models higher outputs to suit larger hot water and heating applications
- Low energy circulation pump
- Compatible with the Vaillant range of high efficiency flues and Variable Termination Kit
- Compatible with Vaillant eBUS controls range, including VRT 360 programmable room thermostat and VRC 430 weather compensator
- Compatible with ecoLEVEL condensate pump
- Stainless steel heat exchanger
- Easy to install
- Back-lit plain text display
- Built-in two stage frost protection

ecoTEC exclusive CH range chart



Easy installation

- Case dimensions 800mm x 480mm x 450mm
- Lift weight from 44kg
- Push-fit flue system with telescopic accessories
- All models can be converted to LPG
- Compatible with the full range of easy to install, advanced controls from Vaillant
- Filling loop for fast installation



ecoTEC exclusive





Combination boiler

ecoTEC plus 937

The ecoTEC plus 937 high efficiency storage combination boiler provides a high level of hot water comfort and is ideally suited to properties with higher hot water demands. • Boiler and tank separate for easier handling It is SEDBUK band A rated, has a 2 year warranty and offers an output of 37kW DHW and 28kW CH.

ecoTEC plus 937 key features

- High efficiency SEDBUK band 'A' rating
- Fully modulating low NOx burner and fan (Class 5)

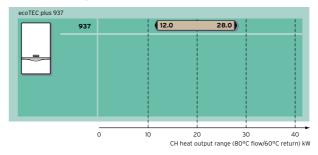
• "actoSTOR" fully recharges in just 2 minutes

- Built-in 15 litre "actoSTOR" provides exceptional hot water delivery and comfort
- Powerful bath filling and shower performance up to 200 litres of blended hot water ($\Delta T=35^{\circ}C$) in 10 minutes
- 15.2I/min flow rate @ 65°C

Easy installation

- No G3 qualification required
- Boiler case dimensions 720 mm x 440 mm x 598 mm
- All major components built-in
- Push-fit flue system with telescopic accessories
- Operation on low water pressure (1.3 bar)
- Compatible with the full range of easy to install, advanced controls from Vaillant
- LPG conversion kit available
- Installation weight storage bank 17kg
- Installation weight combi unit 38kg

ecoTEC plus 937 CH range chart







ecoTEC plus 937



Combination boilers

ecoTEC plus

ecoTEC plus high efficiency combination boilers are all SEDBUK Band 'A' rated, have a 2 year warranty and offer outputs of 23 to 37kw DHW and 19 to 28kW CH across three models. With Vaillant's 'AquaComfort' system, ecoTEC plus combination boilers offer excellent hot water performance providing instantaneous hot water at a constant temperature.

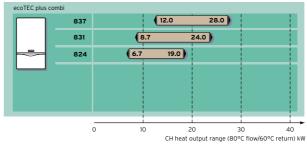
ecoTEC combination boilers key features

- 3 models with powerful hot water performance
- Large surface area stainless steel heat exchanger to maximise heat transfer
- Comprehensive status and diagnostic information and push button programming
- Single electronic circuit board simplifies commissioning
- Compatible with ecoLEVEL condensate pump
- Compatible with the Vaillant range of high efficiency flues and Variable Termination Kit
- Built-in two stage frost protection

Easy installation

- Compact case dimensions
- 824: 720mm (H) x 440mm (W) x 335mm (D)
- 831: 720mm (H) x 440mm (W) x 335mm (D)
- 837: 720mm (H) x 440mm (W) x 403mm (D)
- Low lift weight from 35kg
- Easy wiring
- Push-fit flue system with telescopic accessories
- Compatible with a wide range of existing controls
- Compatible with the full range of easy to install, advanced controls from Vaillant

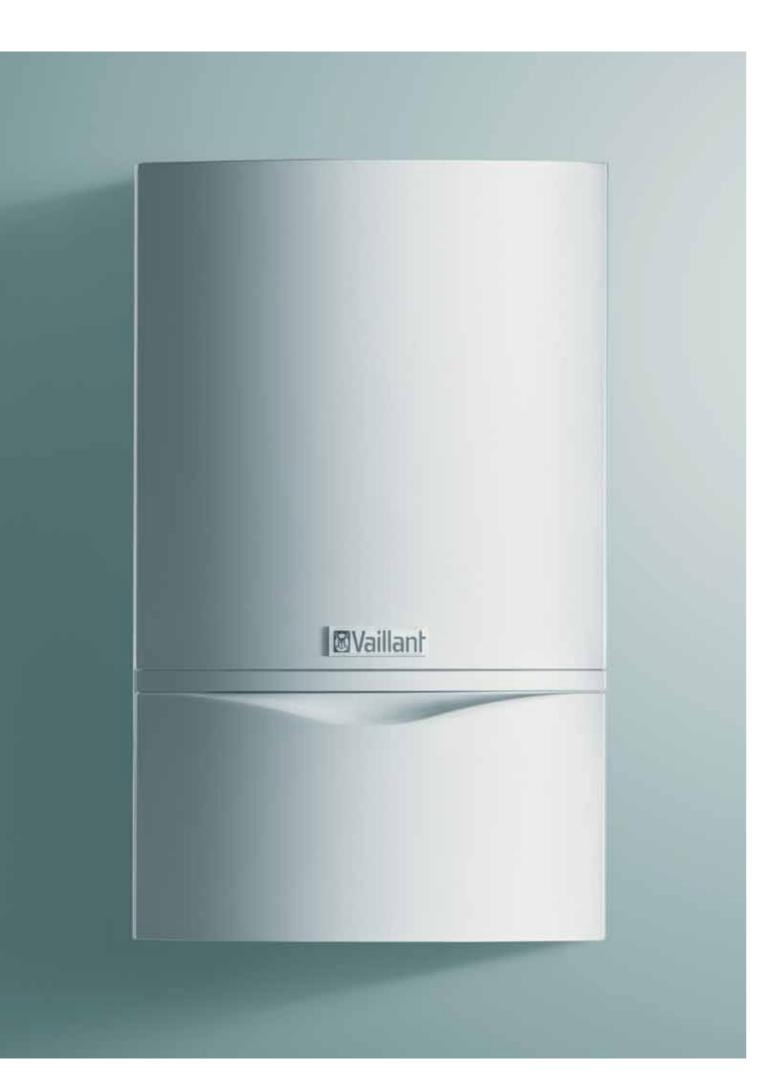
ecoTEC plus combi CH range chart





ecoTEC plus combination boiler





System boilers

ecoTEC plus

The ecoTEC system boiler range comprises of 6 models, all are SEDBUK band A rated, have a 2 year warranty and offer outputs of 12, 15, 18, 24, 30 and 37kW CH.

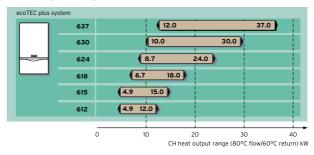
ecoTEC plus system boilers key features

- Compact and lightweight for easy installation and excellent siting flexibility
- Built-in two stage frost protection
- Large surface area stainless steel heat exchanger to maximise heat transfer
- Comprehensive status and diagnostic information and push button programming
- Compatible with ecoLEVEL condensate pump
- Compatible with the Vaillant range of high efficiency flues and Variable Termination Kit

Easy installation

- Compact case dimensions
- 612, 615, 618, 624: 720mm (H) x 440mm (W) x 335mm (D)
- 630: 720mm (H) x 440mm (W) x 369mm (D) - 637: 720mm (H) x 440mm (W) x 403mm (D)
- Low lift weight from 35kg
- Single electronic circuit board simplifies commissioning
- Easy wiring
- Push-fit flue system with telescopic accessories
- Compatible with a wide range of existing controls
- Compatible with the full range of easy to install, advanced controls from Vaillant

ecoTEC plus system CH range chart







ecoTEC plus system boiler



Open vent boilers

ecoTEC plus

ecoTEC plus open vent boilers are the perfect solution for traditional open-vented heating systems. All four models are SEDBUK band A rated, have a 2 year warranty and offer outputs of 15, 18, 28 and 38kW CH.

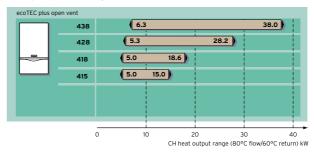
ecoTEC plus open vent boilers key features

- Compact and lightweight for easy installation and excellent siting flexibility
- Built-in two stage frost protection
- Large surface area stainless steel heat exchanger to maximise heat transfer
- Comprehensive status and diagnostic information and push button programming
- Compatible with ecoLEVEL condensate pump
- Compatible with the Vaillant range of high efficiency flues and Variable Termination Kit

Easy installation

- Compact case dimensions 600mm (H) x 375mm (W) x 340mm (D)
- Low lift weight from 31kg
- Easy wiring
- Push-fit flue system with telescopic accessories
- Compatible with a wide range of existing controls
- Compatible with the full range of easy to install, advanced controls from Vaillant

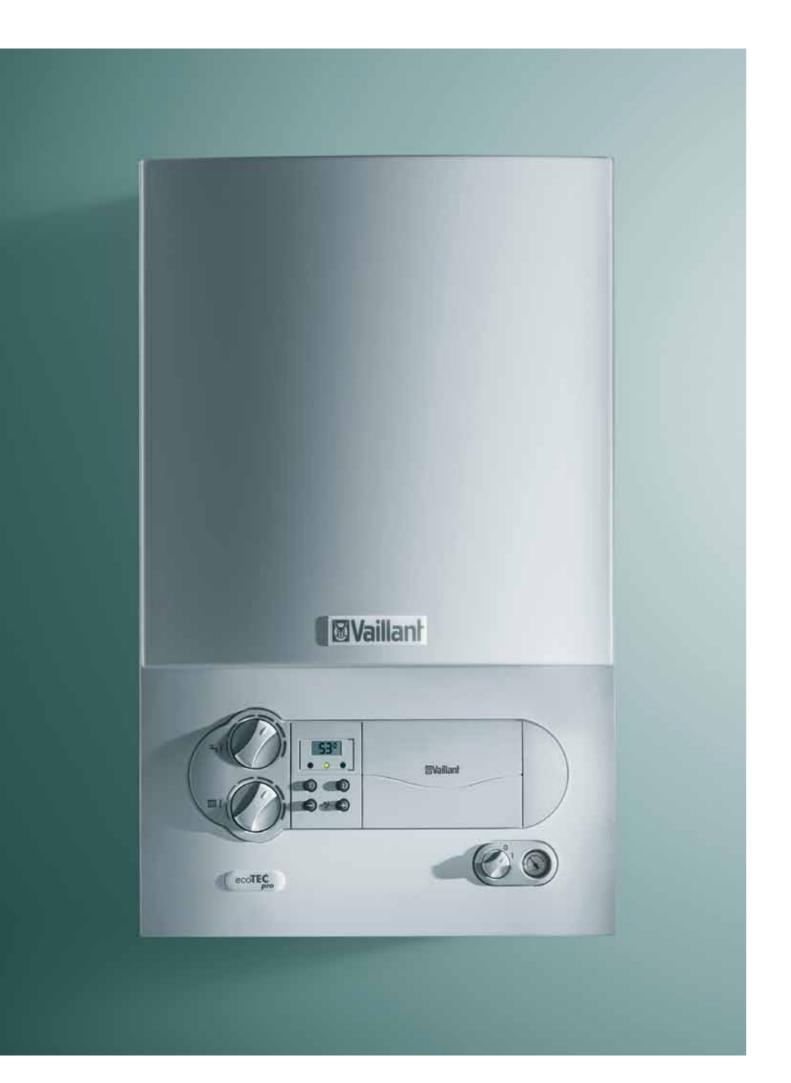
ecoTEC plus open vent CH range chart





ecoTEC plus open vent boiler





Combination boilers

ecoTEC pro 24 & 28

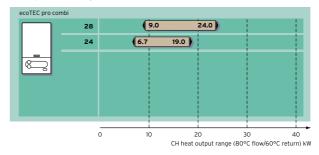
The ecoTEC pro 24 and 28 combination boilers have the same high build quality as ecoTEC plus combi models but with a more basic specification.

Vaillant's ecoTEC pro range of combination boilers feature comprehensive status and diagnostic information with simple push button operation for easy commissioning and servicing.

Both models feature Vaillant's 'Aquacomfort' system that provides instantaneous hot water at a constant temperature and are compatible with the ecoLEVEL condensate.

Our ecoTEC pro range have the benefit of a 1 year warranty.

ecoTEC pro combi CH range chart

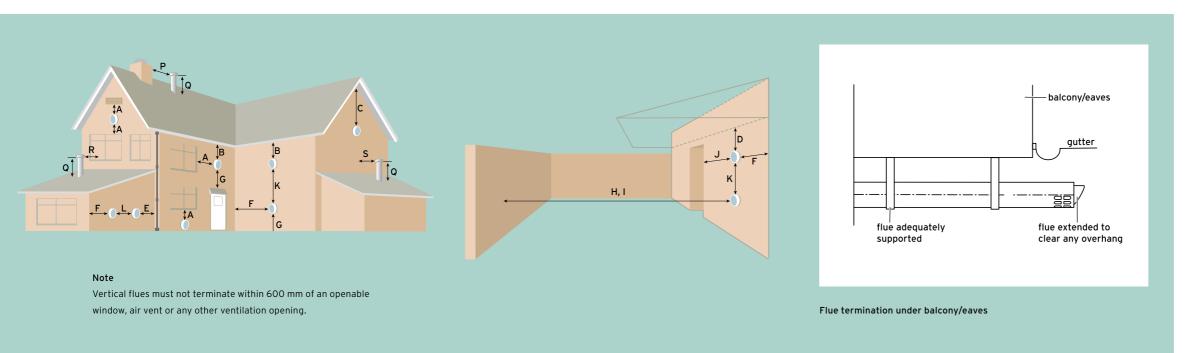






ecoTEC pro 24 & 28

Flue location and ventilation



- Vaillant ecoTEC boilers are certified as heating boilers with corresponding flue systems according to EC Directive 90/396/EEC on gas-fired devices.
- These instructions should be read in conjunction with the instructions for installation and servicing supplied with the boiler. Ensure also that all legislation, rules, regulations and directives mentioned in the installation instructions are observed.
- The installation of the boiler and its flue must be carried out by a competent person who is registered with Gas Safe Installers (UK & Isle of Man) or CORGI (Northern Ireland).
- The installation of the boiler and flue must be in accordance with the Gas Safety (Installation and Use) Regulations 1998, the Building Regulations and BS 5440 Part 1'.
- Two types of flue system are available for ecoTEC boilers. The standard concentric flue system (100 mm outside diameter) and a larger diameter concentric system (125 mm outside diameter) which allows longer air/flue duct lengths to be achieved.
- The air/flue duct operates at very low temperatures therefore no clearance is necessary between the air duct and adjacent services.

Te	rminal position	mm					
Α	Directly below an opening, above an opening or horizontal to an opening, air brick, opening windows etc.	300					
В	Below gutters, soil pipes or drain pipes	75					
С	Below eaves	200					
D	Below balconies	200					
E	From vertical drain pipes and soil pipes	25					
F	From internal or external corners	300					
G	Above ground, roof or balcony	300					
Н	From a surface facing a terminal	600					
I	From a terminal facing a terminal	1200					
J	From an opening in the car port (e.g. door, window) into the dwelling	1200					
K	Vertically from a terminal on the same wall	1500					
L	Horizontally from a terminal on the same wall	300					
Ve	Vertical Flues						
Р	From another terminal	600					
Q	Above roof level	300					
R	From adjacent opening window	600					
S	From adjacent wall to flue	500					

Note

In addition, the terminal should not be nearer than 150 mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window.

Flue termination

The following details refer to both flue systems.

- a. The terminal must be located where the combustible substances can escape freely at all times.
- b. A plume of water vapour will sometimes be visible from the flue terminal. Positions where this could be a nuisance should be avoided.
- c. If the terminal is fitted less than 2 m above a balcony, above ground or above a flat roof to which people have access then a suitable terminal guard must be provided and fitted (made by Tower Flue Components, Tonbridge, TN9 1TB, Model K3, plastic coated).

1) Dimensions B, C, and D:

These clearances may be reduced to 25 mm without affecting the performance of the boiler. In order to ensure that the condensate plume does not affect adjacent surfaces the terminal should be extended as shown opposite.

2) Dimension F:

This clearance may be reduced to 25 mm without affecting the performance of the boiler. However, in order to ensure that the condensate plume does not affect adjacent surfaces, a clearance of 300 mm is preferred. For IE, recommendations are given in the current edition of IS 813.

Flexible solutions

As you would expect, Vaillant are at the forefront of technology that offers you flexible boiler siting solutions. Vaillant's Variable Termination Kit allows plume vapour to be redirected away from neighbouring properties, while our ecoLEVEL condensate pump has been designed to solve the problems encountered where a high efficiency boiler is installed remote from the waste drain system. For full details see pages 22 & 23.

ecoTEC range

Maximum flue lengths

Ø 60/100		ecoTEC range									
Accessories	Article No.	612 615	618	624 630	637	824	831	837 937	pro24	pro28	415 418 428 438
Horizontal flue systems				N	Max. pern	nitted co	ncentric	flue leng	th		
Maximum flue length	303 933	for	each ad	ditional 8		12.0 m incl 1 elbow 87° duced by w and by		5.5 m incl 1 elbow 87°	12.0 m incl 1 elbow 87°	8.0 m incl 1 elbow 87°	10.0 m incl 1 elbow 87°
Variable termination kit											
opistro du Dura and L	303 942 303 946 only in combination with 303 933	- Reduced by 0.5 m for the variable terminal - Reduced by 0.5 m for every 1 m VTK pipe on - Reduced by 0.5 m for every 87° bend - Reduced by 0.5 m for 2 x 45° bend					as				
Vertical flue systems		26.0 m	16.0 m	12.0 m	8.0 m	16.0 m	12.0 m	8.0 m	16.0 m	12.0 m	10.0 m
Maximum flue length	303 900								dditional		

Accessories

Planning the air/flue duct layout Ø 60/100

Alternative termination accessories available



303 900 = Vertical air/flue duct (black)



303 933 = Horizontal air/flue duct 303 936 = Horizontal telescopic air/flue duct

* Delivered with support clips

Optional connection accessories	Article No.	303 900	303 933	303 936
Air/flue duct extensions, concentric 470 mm - Ø 60/100	303 902	•	•	•
Air/flue duct extensions, concentric 970 mm - Ø 60/100	303 903	•	•	•
Air/flue duct extensions, concentric 1970 mm - Ø 60/100	303 905	•	•	•
Bends (PP), concentric (pack of 2) 45° - Ø 60/100	303 911	•	•	•
Elbow, concentric 87° - Ø 60/100	303 910	•	•	•
Flue support clips (pack of 5) - Ø 100	303 821	•	•	•
Adjustable flue support clips (pack of 3) - Ø 100	303 935	•	•	•
Sliding sleeve (PP) Ø 60/100	303 915	•	•	•
Adjustable roof tiles for pitched roof	009 076 black	•	•	•
Flexible pitched roof seal	303 980	•		

Optional connection accessories	Article No.	303 900	303 933	303 936
Flat roof penetration collar	009 056	•		
Telescopic extension 440 mm - 690 mm Ø 60/100	303 906	•	•	•
Telescopic offset section	303 919	•	•	•
Black terminal kit for horizontal air/flue duct	303 934		•	•
Variable termination kit - black*	303 942		•	•
Extension pipe for variable termination kit VTKØ 60 mm 1 m - black*	303 943		•	•
87° elbow for variable termination kit - black*	303 944		•	•
45° bend for variable termination kit - black (2 pieces)	303 945		•	•
Variable termination kit - white*	303 946		•	•
Extension pipe for variable termination kit VTK Ø 60 mm 1 m - white*	303 947		•	•
87° elbow for variable termination kit - white*	303 949		•	•
45° bend for variable termination kit - white (2 pieces)	303 948		•	•
Ridge tile flue terminal	303 982	•		

ecoTEC range

Maximum flue lengths

Ø 80/125			ecoTEC range								
Accessories	Article No.	612 615	618	624	630	637	824	831 pro 28	837 937	pro24	415 418 428 438
Horizontal flue systems				N	Max. pern	nitted co	ncentric	flue leng	th		
Maximum flue length	303 209		incl 1 elbow 87°		incl 1 elbow 87°	32.0 m incl 1 elbow 87°	incl 1 elbow 87°		incl 1 elbow 87°	incl 1 elbow 87°	25.0 m incl 1 elbow 87°
Vertical flue systems		27.0 m	41.0 m	31.0 m	29.0 m	34.0 m	41.0 m	31.0 m	34.0 m	41.0 m	27.0 m
Masimum fine length	303 200					educed b			dditional	90°	

Accessories

Planning the air/flue duct layout Ø 80/125

Alternative termination accessories available



303 200 = Vertical air/flue duct (black)



303 209 = Horizontal air/flue duct

Optional connection accessories	Article No.	303 200	303 209
Air/flue duct extensions (PPs), concentric 470 mm - Ø 80/125	303 202	•	•
Air/flue duct extensions (PPs), concentric 970 mm - Ø 80/125	303 203	•	•
Air/flue duct extensions (PPs), concentric 1970 mm - Ø 80/125	303 205	•	•
Bends (PPs), concentric (pack of 2) 45° - Ø 80/125	303 211	•	•
Elbow (PPs), concentric 87° - Ø 80/125	303 210	•	•

Optional connection accessories	Article No.	303 200	303 209
Flue support clips (pack of 5) Ø 125	303 616	•	•
Sliding sleeve (PPs) Ø 80/125	303 215	•	•
Adjustable roof tiles for pitched roof (not suitable for slate roofs)	009076 black	•	•
Flat roof penetration collar	009 056	•	•
Flexible pitched roof seal (Suitable for slate roofs)	303 980	•	

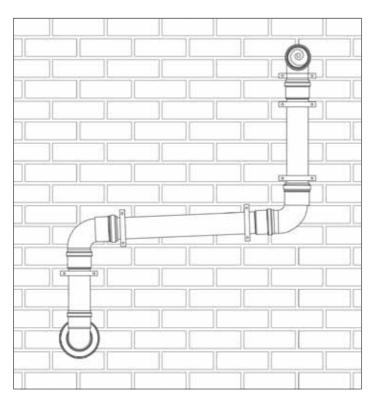
This accessory is required to allow connection of \emptyset 80/125 flue system to the boiler.

Optional connection accessories	Article No.
Appliance connection piece Ø 80/125	303 926





Variable termination kit



Vaillant's Variable Termination Kit (VTK) is the latest high efficiency accessory designed to overcome the visual and siting issues often associated by plume.

The VTK enables the flue outlet to be re-sited away from the boiler reducing the visual impact and nuisance pluming causes. A unique design, push-fit connections and a choice of colour pipework all save the time and inconvenience of boiler relocation.

The VTK has been developed to satisfy the needs of installers, specifiers and service engineers. And what's more, the VTK comes with additional components offering solutions to all installations.

Variable termination kit	Article no:
Black	303 942
White	303 946



VTK

Condensate pump

ecoLEVEL



ecoLEVEL

ecoLEVEL condensate pump

The Vaillant ecoLEVEL condensate pump has been designed to solve the problems encountered where a high efficiency boiler is installed remote from the waste drain system. This removes the time and expense involved in relocating a boiler.

The ecoLEVEL condensate pump is compact and extremely quiet when running and will be unobtrusive when installed in almost all areas of the home.

Designed to be fixed to a wall close to the boiler, the pump is supplied with all necessary wall fixings and pipes ensuring that the pump is simple and quick to install.

ecoLEVEL technical features:

- Low operating noise <40 dB(A)
- Two status LED's indicating operation and fault
- Maximum vertical pump height 4 metres
- Maximum delivery 150 litres / hour condensate at 4 metres vertical height
- Alarm cable delivered with two plugs already fitted to enable direct connection to all ecoTEC boilers

Key technical data:	
Dimensions (mm)	160 x 180 x 100
Nominal capacity	0.5 litre
Voltage	230 V
Max power rating	1 W
Max pump height	4 m
Weight (filled)	1.8 kgs
Delivery volume	150 litres / hour at 4m head



VRC 430

Comfortable living

Performance heating controls

Vaillant offer a comprehensive range of performance heating controls for the ecoTEC range, which help provide a comfortable living environment and minimise fuel costs.

Analogue room thermostat - VRT 30*

• Straightforward, compact room thermostat to maintain constant room temperature

Digital room thermostat - VRT 50*

- Maintains a constant room temperature and modulates the boiler output depending on the actual room temperature
- Easy to install only requires a two-wire connection to the boiler
- In conjunction with the timeSWITCH 130 compatible with all ecoTEC combination boilers

Programmable room thermostat - VRT 230

- Offers full time and temperature control of central heating and operates in either 24-hour or 7-day mode
- 3 independent time windows per day
- Heating advance function, holiday function, set-back temperature and 3 room temperature profiles
- Calendar function for automatic summer/winter changeover

Analogue central heating timer - timeSWITCH 130

- 24 hour analogue timer to control central heating
- Easy to operate
- Overwrite switch allows to keep the heating constantly on or switched off for longer periods
- Timer plugs into the boiler fascia no wiring required
- Installation in conjunction with room thermostat VRT 30 or VRT 50 for room temperature control

Digital central heating and hot water timer

- timeSWITCH 140
- Provides independent time control for both central heating and hot water
- · Used with an ecoTEC combination boiler, the hot water programme controls the "Aqua Comfort" for instant
- Used with an ecoTEC system or open vent boiler an additional VR 65 Control Centre is needed to control central heating as well as the hot water cylinder
- Timer plugs into the boiler fascia no wiring required
- Installation in conjunction with VRT 30 room thermostat for room temperature control. Cannot be combined with VRT 50 room thermostat

Programmable room thermostat - VRT 360*

- Independent time control for central heating and "AquaComfort" hot water system with ecoTEC combination boiler
- When installed with a VR 65 control centre the programmer can be used to time control both central heating and hot water for both ecoTEC plus system and open vent boilers with hot water cylinder installation
- 3 independent time windows per day, the programmer also has an over-ride function, holiday function, adjustable set-back temperature and 3 room temperature profiles
- Calendar function for automatic summer/winter

Wireless programmable room thermostat - VRT 360f*

- Thermostat with the same features as the VRT 360 programmable room thermostat
- Reduced wiring
- The receiver is designed for improved reception and is installed in the vicinity of the boiler

24 / 25

^{*} As load-or weather compensators, Vaillant eBUS controls qualify for additional efficiency points in SAP 2005 calculation.



Comfortable living

Performance heating controls

Digital weather compensator - VRC 400*

- Weather compensator offers the functionality and features of the VRT 360 with the additional benefit of weather compensation
- An externally mounted temperature sensor monitors the outside temperature and modulates the boiler for greater fuel savings

Digital weather compensator - VRC 430*

- Permanent monitoring of the outside temperature to adapt the boiler output to maintain the desired room temperature
- Provides independent time and temperature control for both central heating and hot water
- Advanced functionality with 3 independent time programmes per day for adaptation to individual schedules, automatic switch between day and night set-back temperature, over-ride function for temporary changes, holiday function and automatic summer/winter changeover
- Easy and clear understanding of information thanks to blue backlit and plain text display with numbered screens

- Only two 'click and turn' knobs are needed to select and change data and settings
- Installed on the wall the VRC 430 also acts as
- Used with an ecoTEC system or open vent boiler an additional VR 65 Control Centre is needed to control central heating as well as the hot water cylinder
- Plugs into boiler fascia or can be wall mounted
- Used with an ecoTEC combination boiler, the hot water programme controls the "Aqua Comfort" for instant hot water

Remote control unit for VRC 430 - VR 81^*

- Remote control can be used as room thermostat while weather compensator remains in boiler fascia
- In case of a two-zone heating system, where an additional VR 61 Mixer Module will be needed, the remote control becomes the room thermostat for the second heating zone
- Can only used in conjunction with digital weather compensator VRC 430

^{*} As load-or weather compensators, Vaillant eBUS controls qualify for additional efficiency points in SAP 2005 calculation.

Controls compatibility	ecoTEC range					
	ecoTEC exclusive	ecoTEC plus 937	ecoTEC plus combination	ecoTEC plus system	ecoTEC plus open vent	ecoTEC pro combination
VRT 30	✓	✓	✓	✓	✓	✓
VRT 50	✓	✓	✓	X	X	✓
VRT 230	✓	✓	✓	✓	✓	✓
timeSWITCH 130	✓	✓	✓	X	X	✓
timeSWITCH 140	✓	✓	✓	√ VR65 required	√ VR65 required	✓
VRT 360	✓	✓	✓	√ VR65 required	√ VR65 required	✓
VRT 360f	✓	✓	✓	√ VR65 required	√ VR65 required	✓
VRC 400	√	/	✓	√ VR65 required	√ VR65 required	√
VRC 430	√	✓	/	√ VR65 required	√ VR65 required	√



VRC 430





uniSTOR

Unvented cylinders

uniSTOR is a 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 125 litres to 310 litres. uniSTOR can be used with proprietary system boilers. However when installed with ecoTEC plus system or open vent boilers, a total heating and hot water solution is provided.

uniSTOR features a high recovery heating coil and insulation which exceeds CHeSS Best Practice. All seams are laser welded and the cylinder shell is backed up by a 25 year guarantee.

- 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





uniSTOR stainless steel unvented cylinder	125	155	180	210	260	310
External case height mm	969	1179	1339	1499	1789	2109
External case width mm	598	598	598	598	598	598
External case depth mm	554	554	554	554	554	554
Weight approx. (empty) kg	28	30	33	39	44	49

Intelligent heating

Total system solution

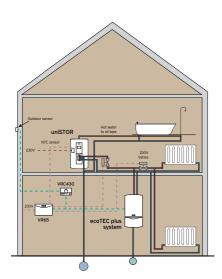


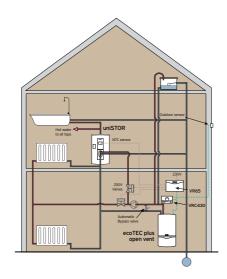
ecoTEC plus

Vaillant ecoTEC boiler can be modular extended to adapt and to meet comfort requirements. With Vaillant 'eBUS' controls a complete integrated system can be created. For the integration of a uniSTOR unvented stainless steel cylinder with an ecoTEC system or open

vent boiler a VR 65 Control Centre can be used.

To control a second heating zone, all ecoTEC boilers
can be combined with a VR 61 Mixer Module and a VR
81 room thermostat to control the room temperature in
the second heating zone.





These total system concepts bring some unique features and benefits to the installer and the home-owner.

Benefits

- All components supplied from one manufacturer for peace of mind and complete compatibility
- Central heating and hot water temperature can be set at the boiler or at the control
- Cylinder re-charge with 'AquaCondens' system which re-charges cylinder at the most economical temperature to maintain efficiency
- Simple wiring with two-wire 'eBUS' connection
- Easy to upgrade existing systems

VR 65 Control Centre

The VR 65 Control Centre allows Vaillant low voltage 'eBUS' controls to be integrated within traditional 230V S-plan or Y-plan type installations to provide total system solution comprising of an ecoTEC system or open vent boiler, uniSTOR unvented stainless steel cylinder and Vaillant 'eBUS' control.

VR 61 Mixer Module

The VR 61 Mixer Module in conjunction with the Vaillant weather compensator VRC 430 and an ecoTEC boiler deliver heat to two separate heating zones. The remote control unit VR 81 can be used as room thermostat in the second heating zone.



uniSTOR



ecoTEC plus

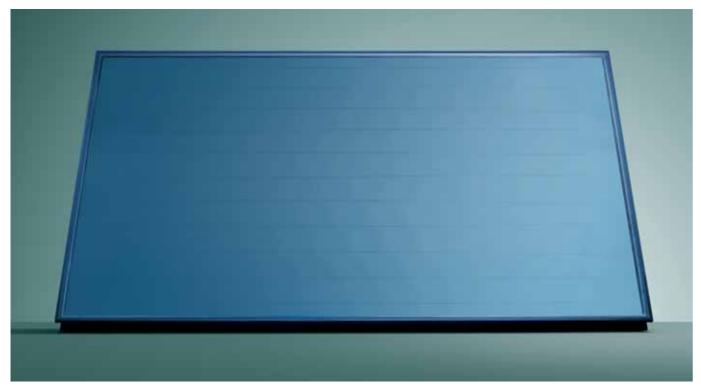


VR 61, VR 65

-\

Using the sun's energy to provide hot water

Total solar system solution



auroTHERM plus VFK 150 flat plate collector

auroTHERM flat plate collectors

The auroTHERM plus VFK 150 flat plate collector has a special anti-reflex coated toughened 4mm thick glass. The collector consists of an ultrasonically welded copper grid with a high selective absorber coating and 60mm rear and side insulation. The whole assembly is encased in a polished aluminium frame for a neat construction. The collectors can be connected in series in horizontal or vertical orientation to suit the available roof space. An extensive range of accessories are available for pitched or flat roof, and the added option of in-roof installation means that the flat plate collector can be fitted in virtually any situation.



The collector has the benefit of a 10 year warranty.

The auroTHERM VFK 145 flat plate collector has the same high build quality as the auroTHERM plus VFK 150 but with a more basic specification. It has a toughened 4mm thick solar glass cover and 60mm rear and side insulation. The same range of roof fixing accessories can be used.

The sun's energy heats solar fluid in the solar collector, which is then pumped by the solar pump unit to a coil designed to heat water in a dedicated stainless steel storage cylinder, auroSTOR. A second coil in the cylinder is connected to a conventional heating source, such as a gas boiler, to provide additional heating when there is insufficient solar energy available. The boiler is also required to provide central heating. Managed by the solar control auroMATIC 560/2 the system is able to automatically switch between solar and the auxiliary heat source to ensure there is always hot water on demand.

Features and benefits

- Easy to install, flexible siting
- Uses indirect solar radiation, not just sunlight for optimum efficiency
- Vaillant's solar DHW system can provide around 50-60% of annual domestic hot water requirements helps reduce fuel bills and ensure hot water comfort
- Built-in intelligence automatic switching from solar to conventional power when needed for consistent performance and hot water delivery
- Reduces CO² emissions positive benefit to the environment
- Durable and stylish adds value to your property
- Compatible for use with a new Vaillant boiler or an existing appliance - upgrade your whole system or use it with your existing boiler



auroTHERM exclusive VTK 570/2



auroSTOR



auroMATIC 570/2



Setting the standard for

customer training



State of the art Vaillant Training Centre in Bristol

As the industry's leading training provider, Vaillant offer comprehensive training courses which can add value to your business.

Every year we train thousands of professionals. We are continually developing and improving our training programmes and facilities to provide a service that matches your requirements.

Every one of Vaillant's training courses is based on practical and detailed hands-on experience, backed up by expert tuition.

The aim of each Vaillant Training Course is to help improve your skills, which in turn can help you to improve your profit. That's why so many choose Vaillant as their training provider.

Who are Vaillant training courses designed for?

- Gas Safe Registered Installers (UK & Isle of Man)
- CORGI Registered Installers (Northern Ireland)
- IPHE Registered Installers
- SNIPEF Registered Installers
- Local Authorities and Housing Associations
- Service Organisations
- Architects and Specifiers
- Merchants and Spare Part Stockists
- Solar DHW installers
- Commercial boiler heating installers

Current training courses

ecoTEC High efficiency domestic boiler range

A one-day course covering our latest range of condensing boilers, including installation, operation, servicing and repair.

Commercial boiler range

A one-day course covering commercial installation, operation, servicing and repair.

BPEC Unvented domestic hot water

Three courses are available to suit all candidates wanting to take this assessment.

Unvented domestic hot water initial assessment

A one day BPEC certificated course comprising of a theory training session in the morning followed by assessment in the afternoon.

Unvented domestic hot water re-assessment

A half day course comprising of a brief update tutorial followed by the BPEC re-assessment examination paper. Please note to be eligible for this assessment all candidates must already hold a certificate of competence for unvented domestic hot water (expired or current), and will be required to present it prior to the assessment.

Unvented domestic hot water defined scope assessment

A one day defined scope BPEC certificated course for those wanting a better understanding of unvented domestic hot water systems, but not intending to install them. Please note this course does not qualify you to install unvented domestic hot water systems in accordance with part G3 of the Building Regulations.

Solar product course

A one-day course for heating professionals wanting to get a basic understanding of solar domestic heating systems.

BPEC Solar DHW course

A two day course for heating professionals looking to gain solar heating BPEC certification.

BPEC Solar DHW course

A two day defined scope BPEC certificated course for those wanting a better understanding of solar domestic hot water systems, but not intending to install them.

Air to air appreciation course

A one-day course designed for installers who wish to expand their knowledge of air to air heat pumps.

Ground Source Heat Pump (GSHP) course

A one day product course looking at the geoTHERM range of ground source heat pumps. The day will cover installation, operation, service and repair.

BPEC Ground Source Heat Pump (GSHP) course

A two day BPEC certificated course for professionals seeking a GSHP qualification.

Mechanical Ventilation Heat Recovery (MVHR)

A one day product course looking at the recoVAIR range of mechanical ventilation heat recovery units. The day will cover installation, operation, service and repair.

FGas Regulations course

Three day training course leading to the Construction Skills assessment on the FGas Regulations.

Domestic controls training

A one-day course designed to give you the best knowledge and expertise with our range of controls and accessories.

Certificate in Energy Efficiency for Domestic Heating

A one-day course to help you promote the benefits of high efficiency boilers to your customers.

BPEC CPA 1 Combustion Analyser Assessment

From 1st February 2010, CPA1 will be a pre-requisite for anyone wishing to take ACS elements CEN1 and HTR1. We offer a one day BPEC certificated course for those proficient in the use of a combustion analyser. The day comprises of an update tutorial in the morning followed by assessment in the afternoon. If you would like to receive additional training on flue gas analysis or would just like the opportunity to practice with your own analyser, please contact us for further details.

Tailor-made courses

The Vaillant training department creates custom made programmes to suit your company's individual training needs.

For more information on any Vaillant training course please contact our Training Department on:

Telephone: 01634 292370 Fax: 01634 292354 Email: training@vaillant.co.uk www.vaillant.co.uk/installers/training

ecoTEC range

Technical specification

		ecoTEC exclusive combi		ecoTEC plus storage combi	ecoTEC plus combi		
		832	838	937	824	831	837
Flue Type		RSF	RSF	RSF	RSF	RSF	RSF
Maximum DHW heat output	kW	31.4	37.2	37.0	23.0	31.0	37.0
	(Btu/h)	107,200	127,000	126,000	78,500	105,800	126,000
DHW flow rate @ 35°C		12.9	15.2	15.2*	9.4	12.7	15.2
Mains water pressure required for max. flow rate	bar	0.5	0.5	1.3	0.5	0.75	0.75
CH heat output range (80°C flow/60°C return)	kW	10.2 - 27.0	11.2 - 30.0	12.0 - 28.0	6.7 - 19.0	8.7 - 24.0	12.0 - 28.0
	(Btu/h)	34,800 - 92,124	38,200 - 102,400	40,900 - 95,500	22,800 - 64,800	29,700 - 81,800	40,900 - 95,500
Heating flow / return	mm	22	22	22	22	22	22
Cold water inlet	mm	15	15	15	15	15	15
DHW outlet	mm	15	15	15	15	15	15
Gas inlet	mm	15	15	22	15	15	22
Pressure relief valve discharge pipework	mm	15	15	15	15	15	15
Condensate drain (internal diameter min.)	mm	19	19	19	19	19	19
Electrical connection	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
External case height	mm	800	800	720	720	720	720
External case width	mm	480	480	440	440	440	440
External case depth	mm	450	450	597	335	335	403
Top clearance (100mm flue/125mm flue)	mm	165/246	165/246	165/275	165/275	165/275	165/275
Side clearance	mm	5	5	5	5	5	5
Bottom clearance	mm	145	145	180	180	180	180
Weight approx.	kg	44	46	55	36	38.3	42.6
LPG model available		Conversion kit	Conversion kit	Conversion kit	Conversion kit	Yes	Conversion kit
SEDBUK	Band	Α	Α	A	А	А	А
NoX level	mg/ kWhr-	34.71	53.07	44.13	32.84	39.63	44.13
NoX Class		5	5	5	5	5	5

^{*}Water stored at up to 65°C. Flow rates of approx 20I/min when blended.

ecoTEC plus system					ecoTEC plus open vent				ecoTEC pro combi		
612	615	618	624	630	637	415	418	428	438	24	28
RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF
-	-	-	-	-	-	-	-	-	-	23.0	28.0
-	-	-	-	-	-	-	-	-	-	78,500	95,500
-	-	-	-	-	-	-	-	-	-	9.4	1 1.5
-	-	-	-	-	-	-	-	-	-	0.5	0.5
4.9 - 12.0	4.9 - 15.0	6.7 - 18.0	8.7 - 24.0	10.0 - 30.0	12.0 - 37.0	5.0 - 15.3	5.0 - 18.3	5.3 - 28.2	6.3 - 38.0	6.7 - 19.0	9.0 - 24.0
16,700 - 41,000	16,700 - 51,100	22,800 - 61,400	29,700 - 81,800	34,100 - 102,400	40,900 - 126,000	17,100 - 52,200	17,100 - 62,200	18,100 - 96,200	21,500 - 129,600	22,800 - 64,800	30,700 - 81,800
22	22	22	22	22	22	22	22	22	22	22	22
-	-	-	-	-	-	-	-	-	-	15	15
-	-	-	-	-	-	-	-	-	-	15	15
15	15	15	15	15	22	15	15	15	15	15	15
15	15	15	15	15	15	-	-	-	-	15	15
19	19	19	19	19	19	19	19	19	19	19	19
230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
720	720	720	720	720	720	600	600	600	600	720	720
440	440	440	440	440	440	375	375	375	375	440	440
335	335	335	335	369	403	340	340	340	340	335	335
165/275	165/275	165/275	165/275	165/275	165/275	200/275	200/275	200/275	200/275	165/275	165/275
5	5	5	5	5	5	5	5	5	5	5	5
180	180	180	180	180	180	200	200	200	200	180	180
34.8	34.8	34.8	36.3	37.8	40.2	31	31	33	33	35	37.5
Conversion kit	Conversion kit	Yes	Conversion kit	Yes	Conversion kit	*	*	*	Yes	Conversion kit	Conversion kit
Α	А	А	А	Α	А	А	А	А	А	А	А
30.14	32.17	32.84	39.63	33.65	44.13	37.4	40.6	27.3	13.4	32.84	39.63
5	5	5	5	5	5	5	5	5	5	5	5

Expansion vessel capacity (L) 10 (combination and system boilers only)

Note capacity of expansion vessel is dependent on heating system water content. Refer to installation instructions.

*Conversion instructions supplied with boiler.

RSF - Room sealed flue.



