

Domestic Product Guide



VIESMANN

10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

Leading heating technology from Europe's largest brand - manufactured in Germany's most sustainable factory

Established in 1917, Viessmann draws on more than 90 years of experience in the development and manufacture of heating systems and due to its high commitment to quality, it is Europe's single largest brand in heating technology. Viessmann is a third generation family business and as such is able to hold true to its principles of innovation, efficiency and sustainability; this is a significant reason behind Viessmann's continuing success.

Viessmann's domestic product range has been built around a long established reputation for high quality commercial heating systems. Viessmann has utilised its extensive knowledge and expertise to develop domestic heating products that define the quality benchmark for other brands. Viessmann manufactures all of its own products and controls to ensure that the drive for quality remains throughout the entire range and that there are additional benefits from combining its heating technologies. Viessmann produces and sells products in the following sectors: high efficiency boilers, both domestic and commercial; solar thermal flat plate and tube collectors and PV panels; air source and ground source heat pumps; biomass boilers; and CHP units for commercial and domestic use, using a number of fuels including biogas.

However the principles of innovation, efficiency and sustainability don't only apply to products, but extend to all areas of the business. Viessmann's head office and production facility in Allendorf, Germany, was restructured from 2007 to 2009 at a cost of 220 million Euros and energy use was aligned with European climate change goals, of a 20% reduction in energy usage and CO₂ emissions and a transfer of 20% of energy production into renewables, by 2020. In 2009, under the umbrella of the 'Effizienz Plus' project, Viessmann achieved its goal of saving 40% of oil, gas and electricity through the use of renewable energy while at the same time reducing CO₂ emissions by a third. Almost all measures to improve efficiency and renewable substitution were achieved with commercially available products made by members of the Viessmann Group; whether these were Solar panels, CHP units, Oil, Gas or Biomass boilers.

For this project, Viessmann received the German Sustainability Award 2009 in the category "Most Sustainable Production" as well as the German Energy Agency's Efficiency Award in 2010. In addition, Viessmann was honoured with the 2011 German Sustainability Award in the category "Most Sustainable Brand". These awards recognised the company's achievement of combining economic success with social responsibility and environmental conservation. Hence Viessmann products contribute to reducing the carbon footprint of UK homes even before they are installed.





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Gas condensing
technology

Vitodens 100-W Combination

5 year comprehensive
warranty as standard



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 100-W COMBINATION

Wall mounted gas fired condensing boiler, with modulating MatriX cylinder burner and Inox-Radial heat exchanger, for open and balanced flue operation with integral expansion vessel.

The Vitodens 100-W high efficiency gas condensing boiler, manufactured by Viessmann in Germany, is loaded with features for easy installation, high efficiency and impressive fuel savings.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann

Inox-Radial heat exchanger

- Excellent corrosion resistance
- Self-cleaning
- Counteracts dirt and sludge deposits
- 10 year warranty against corrosion
- Highly corrosion resistant

Integral Grundfos AquaBloc hydraulic unit

- For easy service and maintenance

Take advantage of these benefits

- Same output for Heating and Hot Water (up to 35 kW)
- Combined PRV and condense connection, saving time and expense (p22)
- Improved installation options with max. flue length up to 17 metres
- New case design improves service accessibility and reduces noise and weight
- Integral filling loop
- Range rate CH to 25% of maximum output and match output to meet Building Regulations
- Simple conversion to LPG (conversion kit part no. 7837261 for 26 kW & 7837262 for 30/35 kW)
- Integral auto by-pass
- Optional sub-mounted mixer kit ideal for UFH installations
- Compact dimensions

Easy installation

- Safety valves and fittings
- Fully assembled and wired
- Boiler flue connection
- Hydraulic accessories
- Gas tap
- Installation aids are available such as pre-plumbing jig and rear-piping frames, please see boiler accessories

Output range

- Boilers within the range offer the following outputs of 26 kW, 30 kW, 35 kW

DHW performance

- Hot water flow rate up to 14.3 l/min @35°C rise

Controls

- User control interface with large LCD
- Plug in controls for wireless operation
- Optional weather compensation control for additional gas savings of up to 12%

Warranty

- 5 year comprehensive warranty as standard
- 10 year warranty on the Inox-Radial heat exchanger



Inox-Radial heat exchanger

Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Gas condensing
technology

Vitodens 100-W System

5 year comprehensive
warranty as standard



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 100-W SYSTEM

Wall mounted gas fired condensing system boiler, with modulating Matrix cylinder burner and Inox-Radial heat exchanger, for open and balanced flue operation with integral expansion vessel.

The Vitodens 100-W high efficiency gas condensing boiler, manufactured by Viessmann in Germany, is loaded with features for easy installation, high efficiency and impressive fuel savings.

Matrix cylinder burner

- Patented technology, manufactured by Viessmann

Inox-Radial heat exchanger

- Excellent corrosion resistance
- Self-cleaning
- Counteracts dirt and sludge deposits
- 10 year warranty against corrosion
- Highly corrosion resistant

Integral Grundfos AquaBloc hydraulic unit

- For easy service and maintenance

Take advantage of these benefits

- Same output for Heating and Hot Water (up to 35 kW)
- Combined PRV and condense connection, saving time and expense (p22)
- Improved installation options with max. flue length up to 19 metres (19 kW)
- New case design improves service accessibility and reduces noise and weight
- Integral auto by-pass
- Range rate CH to 25% of maximum output and match output to meet Building Regulations
- Simple conversion to LPG (conversion kit part no. 7837261 for 19/26 kW & 7837262 for 30/35 kW)
- Compact dimensions

Easy installation

- Safety valves and fittings
- Fully assembled and wired
- Boiler flue connection
- Hydraulic accessories
- Gas tap
- Installation aids are available such as pre-plumbing jig and rear-piping frames, please see boiler accessories

- Meets G3 building regulations and saves your time and expense using the Viessmann 4-pipe principle. (see page 22)
- Optional sub-mounted mixer kit ideal for UFH installations

Output range

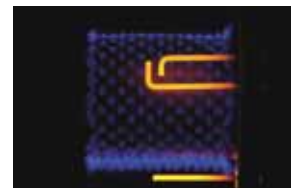
- Boilers within the range offer the following outputs of 19 kW, 26 kW, 30 kW, 35 kW

Controls

- User control interface with large LCD
- Plug in controls for wireless operation
- Optional weather compensation control for additional gas savings of up to 12%

Warranty

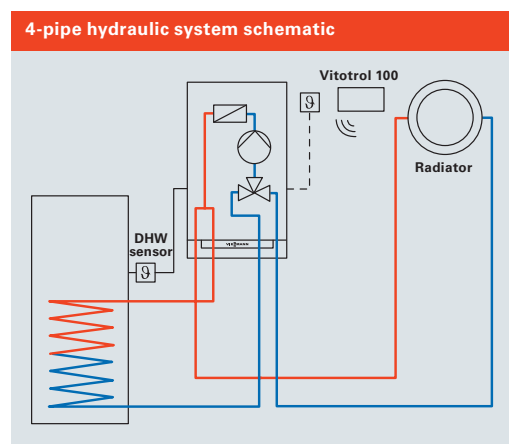
- 5 year comprehensive warranty as standard
- 10 year warranty on the Inox-Radial heat exchanger



Matrix cylinder burner



100-W showing components



Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Gas condensing
technology

Vitodens 100-W Open vent

5 year comprehensive
warranty as standard



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 100-W OPEN VENT

Wall mounted gas fired condensing boiler, with modulating MatriX cylinder burner and Inox-Radial heat exchanger, for open and balanced flue operation and open vented heating systems.

With a depth of only 285 mm (340 mm for 35 kW model) the Vitodens 100-W Compact boiler is perfectly suited for integration into standard kitchen cupboards. It can also be used in a vast number of other applications where there is only limited space available.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann

Inox-Radial heat exchanger

- Excellent corrosion resistance
- Self-cleaning
- Counteracts dirt and sludge deposits
- 10 year warranty against corrosion

Take advantage of these benefits

- For natural gas and LPG (conversion kit part no. 7828769)
- Permissible boiler operating pressure 3 bar
- SEDBUK (2005) seasonal efficiency 90.8%
- Modulation ratio of 1:3
- Room thermostatic and weather compensated control unit options
- Min static head 2 m

Easy installation

- Depth of only 285 mm (340 mm for 35 kW model) for installation into standard kitchen wall units
- No pump over run required

Output range

- Boilers within the range offer the following outputs of 13 kW, 16 kW, 19 kW, 26 kW, 35 kW

Warranty

- 5 year comprehensive warranty as standard
- 10 year warranty on the Inox-Radial heat exchanger



Compact dimensions suitable for standard kitchen wall units

Gas condensing
technology

Vitodens 100-W P25/P29

2 year comprehensive
warranty as standard



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 100-W P25/P29 COMBINATION

The gas fired condensing boilers Vitodens 100-W P25/P29 offer high heating and DHW comfort at a good price/performance ratio.

These gas fired condensing boilers are suitable for installation in any home where there is limited space. The Vitodens 100-W is ideal for a flat or small family home. It can easily be sited in an alcove in the bathroom, kitchen or utility room.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann

Inox-Radial heat exchanger

- Excellent corrosion resistance
- Self-cleaning
- Counteracts dirt and sludge deposits
- 10 year warranty against corrosion

Take advantage of these benefits

- Standard efficiency up to 97% (Hs)
- Highly durable and efficient through Inox-Radial stainless steel heat exchanger
- Modulating MatriX cylinder burner with high efficiency through stainless steel MatriX mesh
- Easy to operate control with manual power limitation and provision for connecting modulating thermostats
- Outstanding DHW convenience through its integral booster function
- Manual exhaust gas adaption enables large, maximum flue pipe length without any decrease in heat output
- Combined PRV and condense connection, saving time and expense (p22)

Easy installation

- Safety valves and fittings
- Fully assembled and wired
- Boiler flue connection
- Hydraulic accessories
- Gas tap
- Installation aids are available such as pre-plumbing jig and rear-piping frames, please see boiler accessories

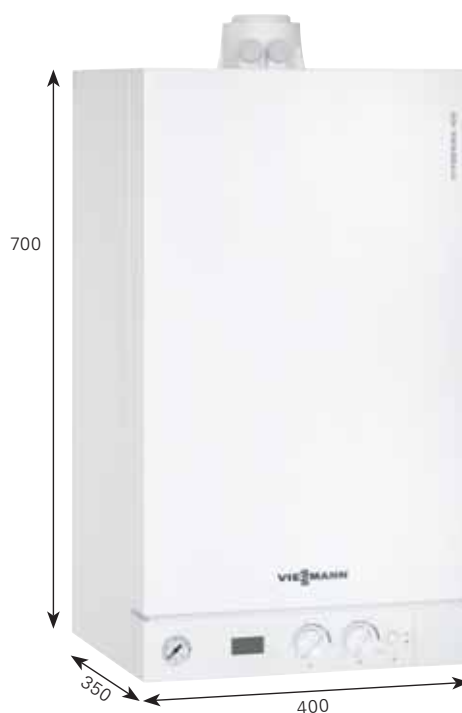
- Optional sub-mounted mixer kit ideal for UFH installations

Output range

- Compact gas fired condensing boiler, 6.1 to 29 kW

Warranty

- 2 year comprehensive warranty as standard



Due to compact dimensions and quiet operation it is ideal for any living space

Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Gas condensing
technology

Vitodens 200-W Combination

New: With high efficiency
pump from July 2013



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 200-W COMBINATION

Wall mounted gas fired condensing boiler, with modulating Matrix cylinder burner and Inox-Radial heat exchanger, for open and balanced flue operation.

The Vitodens 200-W is loaded with features and functions to make installation, fault-finding and servicing easy.

Matrix cylinder burner

- Patented technology, manufactured by Viessmann
- Low emissions
- Long service life through stainless steel Matrix gauze
- Optimum matching of heat exchanger and burner

Inox-Radial heat exchanger

- Self-cleaning smooth stainless steel surface
- Same flow direction for flue gas and condensate
- Highly corrosion resistant through high-grade stainless steel (type SS 1.4571)
- 10 year warranty against corrosion

Lambda Pro Control combustion controller

- No nozzle change when converting to LPG
- Consistently high efficiency even with fluctuating gas composition and air pressure
- Constantly clean combustion
- Low combustion noise through low fan speed
- Optimised efficiency throughout its life
- Simple & failsafe commissioning of the boiler

Dynamic burner cycling

- Adjusts the burner firing duration according to the seasonal heating requirements to ensure the burner burns for longer and less frequently, to increase efficiency and reduce operational wear and tear, e.g. during Spring and Autumn when heating requirement is reduced

Easy installation

- Fully assembled and wired
- Comes with pre-plumbing jig as standard

Output range

- Boilers within the range offer the following outputs of 26 kW, 30 kW, 35 kW

Take advantage of these benefits

- Integral DHW heating (comfort control)
- Integrated diverter valve
- Optional high efficiency A rated modulating pump
- For natural gas and LPG (the conversion to LPG is made at the gas valve – a conversion kit is not required)
- Permissible boiler operating pressure 3 bar
- SEDBUK (2005) seasonal efficiency 90.6%
- Wide modulation ratio of 1:6, e.g. 5.2 kW to 35 kW, ensures optimised burner operation
- 10 litre expansion vessel
- High DHW flow rate of up to 14 l/min (@ 35°C rise)
- Integral auto by-pass

Warranty

- 3 year comprehensive warranty as standard
- 5 years if fitted by a Viessmann trained installer

Award winning control unit

- The Vitodens 200-W is available* with either a Vitotronic 100 HC2A constant temperature controller or the Vitotronic 200 HO1B weather compensation controller, both controls have a 7 day programmer
- Features a multi-line plain text display with large fonts
- Display is 70% larger than those of comparable devices, can show graphics and is also back-lit
- The Vitotronic 200 HO1B, used with an outdoor sensor, can control up to 3 heating circuits, 2 mixed and 1 unmixed, e.g. underfloor heating and radiators would be run off the mixed circuit and a towel rail would run off an unmixed circuit and a separate DHW Circuit



Vitotronic 100 HC2A
Constant temperature control



*Must be ordered separately

DESIGN PLUS

Gas condensing
technology

Vitodens 200-W System

New: With high efficiency
pump from July 2013



10 Year Warranty

on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 200-W SYSTEM

Wall mounted gas fired condensing system boiler, with modulating Matrix cylinder burner and Inox-Radial heat exchanger, for open and balanced flue operation.

The Vitodens 200-W is loaded with features and functions to make installation, fault-finding and servicing easy.

Matrix cylinder burner

- Patented technology, manufactured by Viessmann
- Low emissions
- Long service life through stainless steel Matrix gauze
- Optimum matching of heat exchanger and burner

Inox-Radial heat exchanger

- Self-cleaning smooth stainless steel surface
- Same flow direction for flue gas and condensate
- Highly corrosion resistant through high-grade stainless steel (type SS 1.4571)
- 10 year warranty against corrosion

Integral Grundfos AquaBloc hydraulic unit

- For easy service and maintenance

Lambda Pro Control combustion controller

- No nozzle change when converting to LPG
- Consistently high efficiency even with fluctuating gas composition and air pressure
- Constantly clean combustion
- Low combustion noise through low fan speed
- Optimised efficiency throughout its life
- Simple & failsafe commissioning of the boiler

Dynamic burner cycling

- Adjusts the burner firing duration according to the seasonal heating requirements to ensure the burner burns for longer and less frequently, to increase efficiency and reduce operational wear and tear, e.g. during Spring and Autumn when heating requirement is reduced

Take advantage of these benefits

- Integrated diverter valve (for the connection of a DHW cylinder)
- High efficiency A rated modulating pump
- For natural gas and LPG (the conversion to LPG is made at the gas valve – a conversion kit is not required)

- Permissible boiler operating pressure 3 bar
- SEDBUK (2005) seasonal efficiency 90.7%
- Wide modulation ratio of 1:6, e.g. 5.2 kW to 35 kW, ensures optimised burner operation
- 10 litre expansion vessel
- Can be electronically interlocked with Vitosolic controller for optimum solar efficiency

Easy installation

- Fully assembled and wired
- Comes with pre-plumbing jig as standard
- Installation with a Vitocell 200 or 300 cylinder meets G3 Building Regulations without the need for an energy cut-off valve and cylinder overheat thermostat; these are now built into the boiler. Instead a DHW temperature sensor (sensor part no. 7179114) fitted to the cylinder takes over the hot water control (p22)
- Optional sub-mounted mixer kit ideal for UFH installations or lower temperature heating circuits (only in conjunction with Vitotronic 200)

Output range

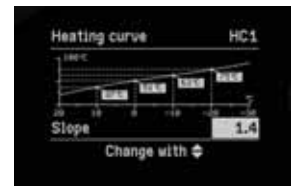
- Boilers within the range offer the following outputs of 19 kW, 26 kW, 30 kW, 35 kW
- There are higher output models available where there is a higher heat demand or for commercial applications, with outputs of 45 kW, 60 kW, 80 kW, 100 kW, 125 kW, 150 kW. These units can be cascaded to provide a total output up to 900 kW

Award winning control unit

- The Vitodens 200-W is available* with either a Vitotronic 100 HC2A constant temperature controller or the Vitotronic 200 HO1B weather compensation controller, both controls have a 7 day programmer
- *Must be ordered separately

Warranty

- 3 year comprehensive warranty as standard
- 5 years if fitted by a Viessmann trained installer



Vitotronic 200 HO1B heating curve



Gas condensing
technology

Vitodens 111-W DHW Storage

5 Year comprehensive
warranty as standard



10 Year Warranty
on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 111-W DHW STORAGE

Wall mounted gas fired condensing boiler with integral cylinder for the highest DHW convenience.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann
- Low emissions
- Long service life through stainless steel MatriX gauze
- Optimum matching of heat exchanger and burner

Inox-Radial heat exchanger

- Self-cleaning smooth stainless steel surface
- Same flow direction for flue gas and condensate
- Highly corrosion resistant through high-grade stainless steel
- 10 year warranty against corrosion
- Durable and efficient through the stainless steel Inox-Radial heat exchanger

Take advantage of these benefits

- High DHW convenience through-loading system and integrated stainless steel storage tank (46 litres)
- 46 litre storage, equivalent to a 150 litre unvented cylinder due to CLS
- Output 5.9 to 35 kW
- Standard efficiency up to 97%
- Built in filling loop
- Compact dimensions
- All parts accessible from the front
- Simultaneous hot water draw offs
- Quick heat recovery <7 mins
- Built in safety device so no discharge pipe for DHW cylinder required

Output range

- Boilers within the range offer the following DHW outputs of 26 kW, 35 kW
- The Vitodens 111-W delivers large amounts of hot water in next to no time. A standard bath (140 litres), for instance, fills in around eight minutes. A shower fitting, a kitchen sink or a washbasin, for example, can also be supplied with water, at the desired temperature, simultaneously*

User-friendly control unit

- The controller with built in room temperature sensor can be connected to an outside temperature sensor to run in weather compensation mode
- The user-friendly dials allow rapid adjustment of the heating and domestic hot water temperatures with a digital display showing operating conditions and temperatures.

Cylinder Loading System (CLS)

Most unvented cylinders use a heating coil to heat up the cylinder. The CLS technology replaces the coil with a plate heat exchanger. A DHW pump circulates the cold water from the bottom of the cylinder, through the plate heat exchanger and puts the hot water back to the top of the cylinder.

Warranty

- 5 year comprehensive warranty as standard
- 10 year warranty on the Inox-Radial heat exchanger



Controller with integrated diagnostics system

- 1 Pressure gauge
- 2 LCD display
- 3 Dial for water temperature
- 4 Dial for central heating
- 5 Off switch with reset function

Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Heat output (CH) (50/30 °C)	kW	6.5 - 26	8.8 - 35
Heat output (CH) (80/60 °C)	kW	5.9 - 23.7	8 - 31.7
DHW output	kW	29.3	35
Dimensions (total)	Depth mm	480	480
	Width mm	600	600
	Height mm	900	900
Weight	kg	62	64
Water content heat exchanger	Litre	2.2	2.8
Cylinder volume	Litre	46	46

* Subject to cold water pressure and tap flow restrictions

Gas condensing
technology

Vitodens 222-F DHW Storage

**3 year comprehensive
warranty as standard
5 years if fitted by a Viessmann
trained installer**



10 Year Warranty
on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 222-F DHW STORAGE

This storage combined floor standing condensing boiler is designed specifically for modernising heating systems and replacing older gas fired boilers and DHW cylinders.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann
- Low emissions
- Long service life through stainless steel MatriX gauze
- Optimum matching of heat exchanger and burner

Inox-Radial heat exchanger

- Self-cleaning smooth stainless steel surface
- Same flow direction for flue gas and condensate
- Highly corrosion resistant through high-grade stainless steel (type SS 1.4571)
- 10 year warranty against corrosion
- Durable and efficient through the stainless steel Inox-Radial heat exchanger
- MatriX cylinder burner with Lambda Pro combustion control for permanent high efficiency and clean combustion

Take advantage of these benefits

- Two cylinder sizes, 100 litres and 130 litres for best hot water performance
- DHW expansion vessel and DHW circulation pump can be integrated inside the appliance
- Dynamic burner cycling reduces the number of burner starts over the year by a third
- SEDBUK (2005) seasonal efficiency 91%
- Wide modulation ratio of 1:6, e.g. 5.2 kW to 35 kW, ensures optimised burner operation
- For natural gas and LPG (conversion is made on valve settings and controller coding)
- Includes unvented safety kit and DHW expansion vessel
- Standard top connection set*
- Standard RH or LH side connection set*

Easy installation

- Optional connection set for top level (7348566) or side pipe installation (7350854)
- No side clearance required, boiler stands flush to the wall

- Optional built-in hot water circulation pump for secondary turn circuit (Part No. 7351819 DHW Secondary Circuit kit)

Output range

- Boilers within the range offer the following DHW outputs of 19 kW, 26 kW, 35 kW
- Flow rates are up to 20 l/min
- On the 35 kW model a 10 minute peak flow performance provides 200 litres of 60°C hot water which is equivalent to a larger cylinder, due to the CLS

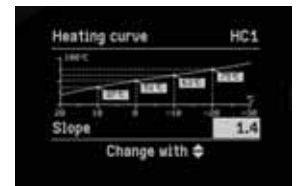
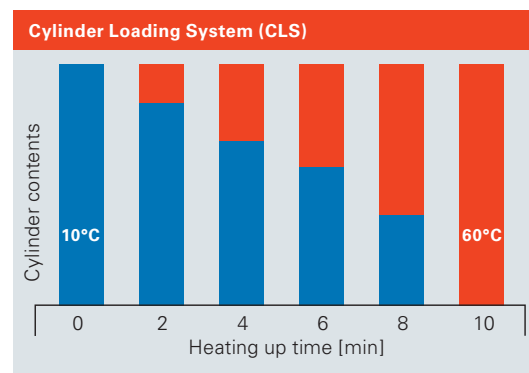
Award winning control unit

- The Vitodens 222-F is available* with either a Vitotronic 100 HC2A constant temperature controller or the Vitotronic 200 HO1B weather compensation controller, both controls have a 7 day programmer
- The control can be sited up to 5 m away from the boiler enabling installation in areas with restricted access, e.g. if the boiler is installed in a garage or loft

Cylinder Loading System (CLS)

Most unvented cylinders use a heating coil to heat up the cylinder. The CLS technology replaces the coil with a plate heat exchanger. A DHW pump circulates the cold water from the bottom of the cylinder, through the plate heat exchanger and puts the hot water back to the top of the cylinder.

*Must be ordered separately



Vitotronic 200 HO1B heating curve



Two cylinder sizes available 100/130 litres

Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Gas condensing
technology

Vitodens 242-F Solar DHW Storage

2 Year comprehensive warranty



10 Year Warranty
on all stainless steel heat exchangers for
gas condensing boilers up to 150 kW

VITODENS 242-F SOLAR DHW STORAGE

This storage combined floor standing condensing boiler is designed specifically for direct connection to a solar thermal system. Incorporating three technologies in one; gas condensing boiler, DHW cylinder and solar control package, for where space is at a premium.

MatriX cylinder burner

- Patented technology, manufactured by Viessmann
- Low emissions
- Long service life through stainless steel MatriX gauze
- Optimum matching of heat exchanger and burner

Inox-Radial heat exchanger

- Self-cleaning smooth stainless steel surface
- Same flow direction for flue gas and condensate
- Highly corrosion resistant through high-grade stainless steel (type SS 1.4571)
- 10 year warranty against corrosion
- Durable and efficient through the stainless steel Inox-Radial heat exchanger
- MatriX cylinder burner with Lambda Pro combustion control for permanent high efficiency and clean combustion

Take advantage of these benefits

- Can reduce your hot water energy usage by 60%
- Unvented cylinder with 170 litre capacity and solar indirect coil
- DHW secondary circulation pump can be integrated inside the appliance
- Dynamic burner cycling reduces the number of burner starts over the year by a third
- SEDBUK (2005) seasonal efficiency 91%
- Wide modulation ratio of 1:6, e.g. 5.2 kW to 35 kW, ensures optimised burner operation
- For natural gas and LPG (conversion is made on valve settings and controller coding)
- Factory fitted cylinder solar pump
- Unvented safety kit and DHW expansion vessel
- Standard top connection set*
- Standard RH or LH side connection set*

Easy installation

- Optional connection sets for top level (7348552) or side pipe installation* (7347985)
- No side clearance required, boiler stands flush to the wall
- All components are factory assembled and wired, saving installation time

Output range

- Boilers within the range offer the following DHW outputs of 19 kW, 26 kW, ideal for refurbishments
- Flow rates are up to 20 l/min, due to the CLS

Award winning control unit

- The Vitodens 242-F is supplied as standard with the Vitotronic 200 HO1B weather compensation controller with 7 day programming
- The control can be sited up to 5 m away from the boiler enabling installation in areas with restricted access, e.g. If the boiler is installed in a garage or loft

Cylinder Loading System (CLS)

Most unvented cylinders use a heating coil to heat up the cylinder. The CLS technology replaces the coil with a plate heat exchanger. A DHW pump circulates the cold water from the bottom of the cylinder, through the plate heat exchanger and puts the hot water back to the top of the cylinder.

Solar options

- Comprehensive range of complete solar packs offered, please see solar kits on page 46

*Must be ordered separately



The graphic display of the new Vitotronic control unit can also display the solar yield

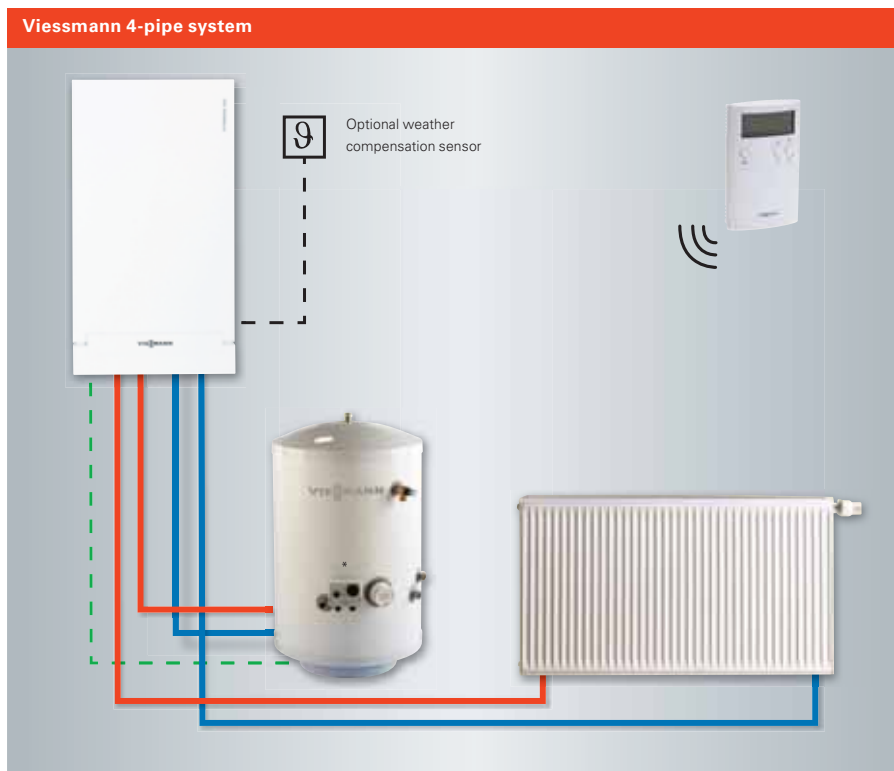


Cylinder in 242-F includes solar coil

Save time and expense

- combined PRV and condense connection, for fast and simple installation.

Installation features



* Cylinder overheat thermostat is supplied as standard for when the cylinder is used without a Viessmann boiler, but in this installation is obsolete.

Viessmann Vitodens system boilers up to 35 kW installed together with a Vitocell 200 or 300 unvented cylinder are the perfect combination to meet G3 building regulations without the need for an energy cut-off valve and cylinder overheat thermostat; these are integrated into the boiler.

Installation time will be reduced by up to 1 day as the following are no longer required:

- Energy cut off valve or safety valve
- Expansion vessel and pump
- Gauge and cylinder overheat thermostat
- Part P certification

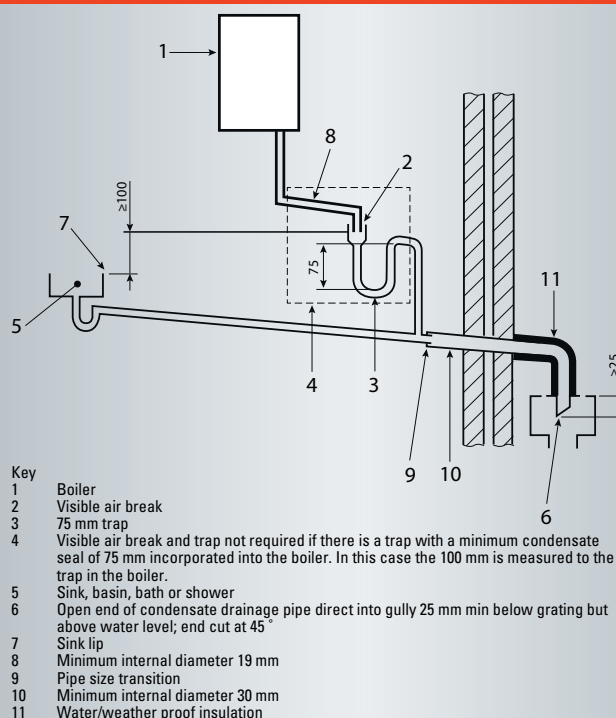
Compatibility with solar

As a manufacturer of the full range of renewable energy technologies all Viessmann boilers are 100% compatible with solar thermal panels. The Vitodens 100-W range has the added advantage of boiler suppression, when using Viessmann solar panels and a dual coil cylinder. This means that the hot water system will always take advantage of solar power, whenever solar energy is available and the boiler will only fire to 'top up' the DHW heating process when absolutely necessary – resulting in significant fuel savings.

Installation of the Vitodens 100-W is faster, simpler and more cost-effective as pressure release valve (PRV) and condense connection are combined, and long runs of additional piping are no longer required.

- Fast and simple installation, saving time and expense
- Built in safety device meaning no discharge pipe for DHW cylinder is required
- No exterior PRV drip/stain as it feeds into a single cold water pipe
- One less pipe to penetrate the building fabric

Combined pressure releasing valve and condense connection



Example of a generic installation with the combined PRV/condense connection

BOILER ACCESSORIES

A range of Vitoset accessories is available to make Vitodens boiler installations easier. These include a pre-plumbing jig and a rear pipework mounting frame, where pipework can run vertically behind the boiler.

Pre-plumbing jig

- Includes fixing parts, valves/fittings, gas tap and valve/fittings cover
- Included with 200-W as part of the standard delivery

Product description	Output	Part no.
Vitodens 100-W Combination	26 - 35 kW	7476447
Vitodens 100-W System	19 kW - 35 kW	7476448



Rear pipework mounting frame

- Includes pipe tails and fittings cover. Valves and fittings as well as gas tap are already supplied with the boiler

Product description	Output	Part no.
Vitodens 100-W Combination & System	19 kW - 35 kW	7474189



Valve/fittings cover

Product description	Output	Part no.
Vitodens 200-W Combination & System	19 kW - 35 kW	7438096



Toolset

Product description	Part no.
Case for all tools required for maintenance and service of all Viessmann Vitodens boilers	9537070



Condensate pump

Product description	Part no.
For low level installation where condensate has to be pumped upwards	7374796



General installation

- **Vitodens 100-W**
CE-0085 BT 0029
- **Vitodens 200-W**
CE-0085 CN 0050
- **Vitodens 222-F**
CE-0085 BN 0051
- **Vitodens 242-F**
CE-0085 BN 0051
- **Vitodens 111-W**
CE-0085 BT 0029

Please note

This is to confirm that the flue system is approved to Building Regulations and certified to the appropriate EC Gas Equipment Directive. Manufacturers instructions must not be taken in any way as overriding statutory obligations.

System Certification

System certification to DVGW-VP 113 and EC Gas Equipment Directive 90/396/EEC in conjunction with PPs flue pipes offered by Skoberne.

Statutory requirements

The appliance is suitable only for installation in GB and IE and should be installed in accordance with the rules in force. In GB a Gas Safe Registered installer must carry out the installation. It must be carried out in accordance with the relevant requirements of the – Gas safety (installation and use) regulations (current issue). It is in your own interest and safety to ensure that the law is complied with.

In addition to the above regulations, this appliance must be installed in accordance with the current IEE Wiring Regulations for electrical installation (BS 7671), local Building Regulations, the Building Standards (Scotland) (Consolidation) Regulations, bye laws of the local water undertaking and Health and Safety Document NO. 635 'The Electricity at Work regulations 1989' In Ireland (IE), the installation must be carried out by a Competent Person and installed in accordance with the current edition of I.S.813 "Domestic Gas Installations", the current Building Regulations and references should be made to the current ETCI rules for electrical installation.

It should also be in accordance with the relevant recommendations in the current editions of the following British Standards and Codes of Practice: BS 5449, BS 5546, BS 5440:1, BS 5440:2, BS 6798, BS 7593, BS 6891, IGE/UP/7 and IS 813 for IE.

All Registered installers are required to notify building control when they have installed or exchanged a gas appliance in a residential dwelling. This can be done via Gas Safe.

Boiler Position

The following limitations must be observed when siting the boiler:

- The boiler is not suitable for external installation. The position selected for the installation should be within the building, unless otherwise protected by a suitable enclosure and must allow adequate space for installation, servicing and operation of the appliance and for air circulation around it.
- The position must allow for a suitable flue system and terminal position. The boiler must be installed on a flat vertical wall capable of supporting the weight of the appliance and any ancillary equipment when full.
- Due consideration should be given to the routing of the condensate drain from the chosen position.
- If the boiler is to be fitted in a timber framed building it should be fitted in accordance with ige/up/7. If in doubt advice must be sought from the Institute of Gas Engineers.

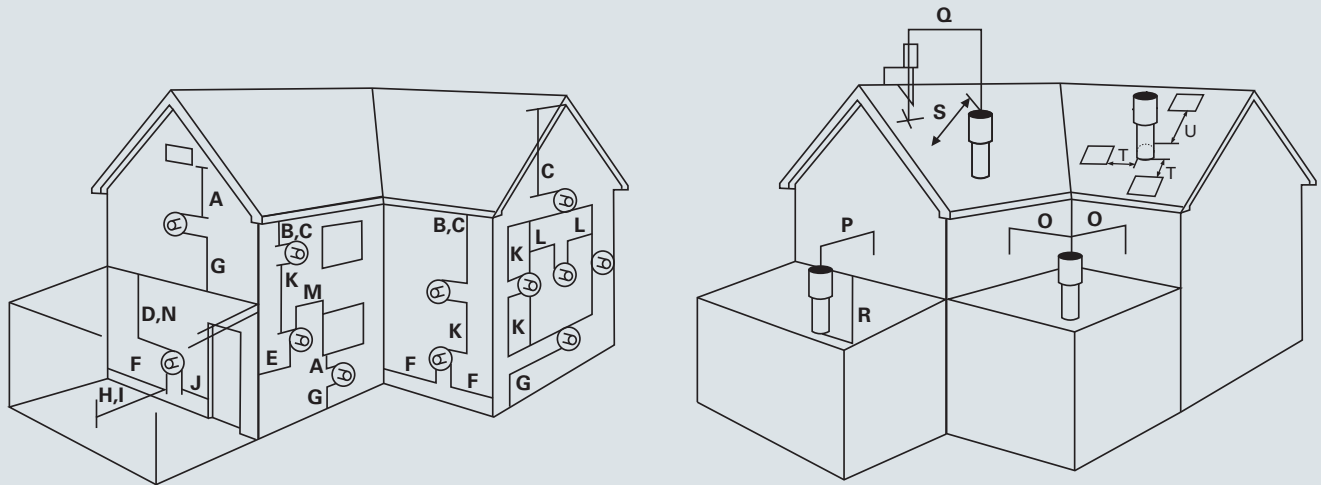
General boiler installation requirements

- If the appliance is to be installed in a room containing a bath or shower, any electrical switch or control utilising mains electricity must be so situated that it cannot be touched by a person using the bath or shower. Attention is drawn to the requirements of BS 7671 (the current I.E.E Wiring Regulations) and in Scotland the electrical provisions of the Building Regulations applicable in Scotland.
- A compartment used to enclose the appliance must be designed and constructed specifically for this purpose. An existing cupboard or compartment may be used provided it is modified accordingly. BS 7698:2000 gives details of the essential features of cupboard/compartment design, including airing cupboards. The Vitodens range does not require compartment ventilation.
- Where installation will be in an unusual location, special procedures may be necessary. BS 6798 gives detailed guidance on this subject.

Flue termination position

Position	Minimum spacing for standard boilers	Minimum spacing for condensing boilers
A Directly below an openable window, air vent or any other ventilation opening	300 mm	
B Below a gutter, drain or soil pipe	75 mm	
C Below eaves	200 mm	
D Below a balcony	200 mm	
E From vertical drain or soil pipes	150 mm	
F From internal and external corners	300 mm	
G Above adjacent ground or balcony level/roof	300 mm	
H From a surface facing the terminal	600 mm	2 500 mm
I Facing terminals	1 200 mm	2 500 mm
J From opening door/window in carport into dwelling	1 200 mm	not recommended
K Vertically from a terminal on same wall	1 500 mm	
L Horizontally from a terminal on same wall	300 mm	
M Adjacent to opening	300 mm	
N Below carport/roof	300 mm	not recommended
O From adjacent wall	300 mm	
P From adjacent opening window	1 000 mm	
Q From another terminal	600 mm	
R Min. height	300 mm	
S Min. distance measured perpendicular to roof covering	400 mm	
T Beside or above an opening rooflight	600 mm	
U Below an opening rooflight	2 000 mm	

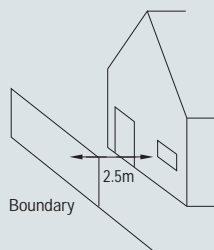
Flue terminal location for standard boilers



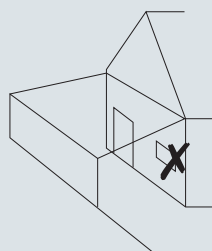
Detailed recommendations for flue installation are given in BS 5440:1.

Additional requirements for condensing boilers

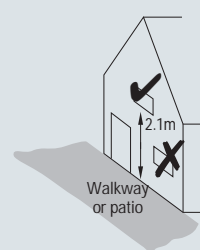
Minimum distance from terminal



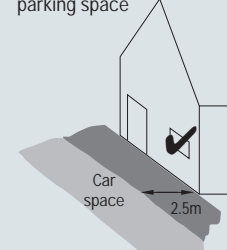
Not under a car port



Avoid access routes and patios

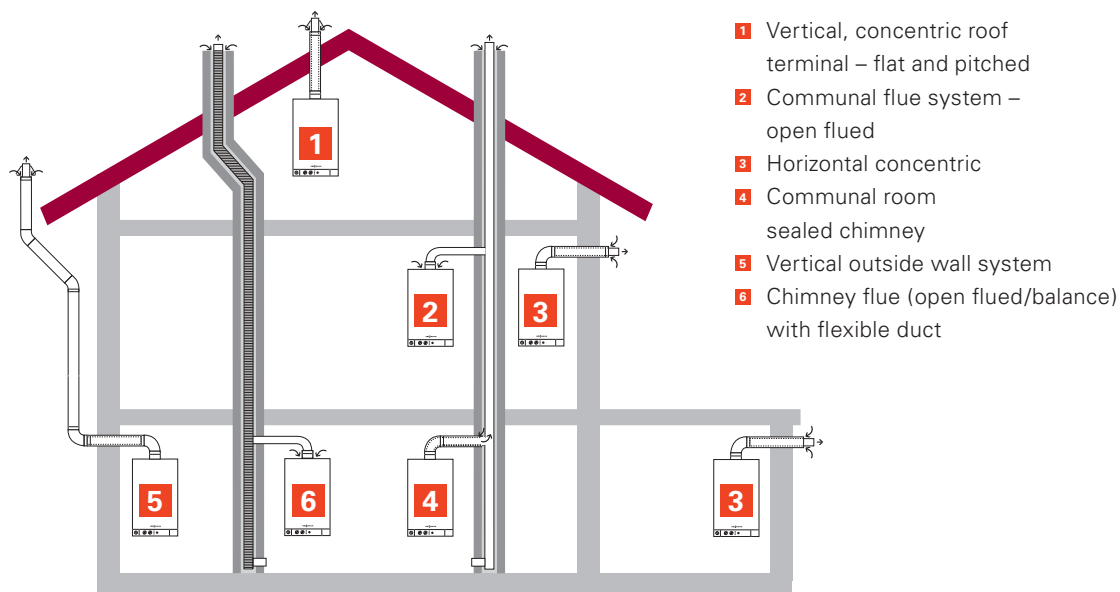


Minimum distance to car parking space



Flue applications

Vitodens boilers can be installed in virtually all domestic applications, some examples are illustrated.



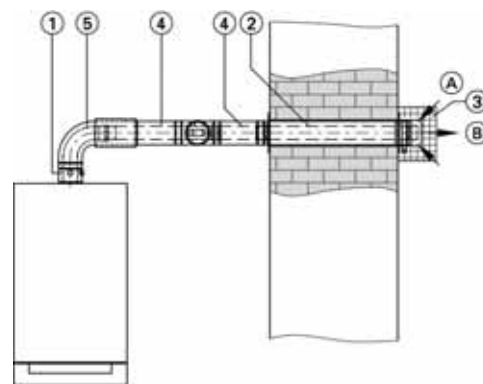
- 1 Vertical, concentric roof terminal – flat and pitched
- 2 Communal flue system – open flued
- 3 Horizontal concentric
- 4 Communal room sealed chimney
- 5 Vertical outside wall system
- 6 Chimney flue (open flued/balance) with flexible duct

The maximum flue length is the single biggest consideration. Maximum flue lengths are provided and have already allowed for 2 bends of 87° (including support bends). For each additional 90° elbow reduce the maximum flue length by 1 m, each additional 45° elbow by 0.5 m.

As a rule of thumb increasing the diameter of the flue from 60 mm to 80 mm will add approximately 15% to the maximum flue length, but please check with the Viessmann Technical Department if in doubt.

3 Horizontal wall terminal

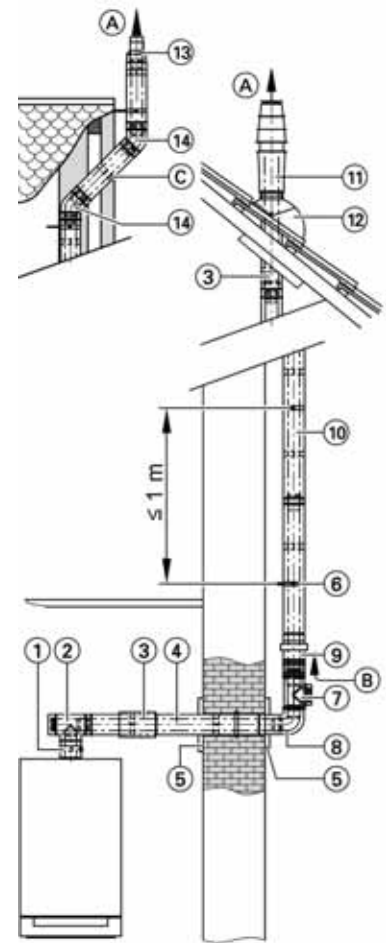
Part no.	60/100	80/125
① Boiler flue connection		
② Balanced flue external wall connection (incl. wall bezels)	7441467	7435862
③ Protective grille	7189821	7189821
④ Balanced flue extension pipe		
1 m long	7373224	7194321
0.5 m long	7373223	7194320
⑤ Balanced flue bend		
87°	7373226	7194323
2 x 45°	7373227	7194324
Fixing clamp	7176762	7176664
Horizontal flue terminal kit	Z009350	
Flue terminal 1 m, 2 x wall seals, balanced flue bend 87°		



- (A) Combustion air
- (B) Flue gas

5 Routing over an external wall

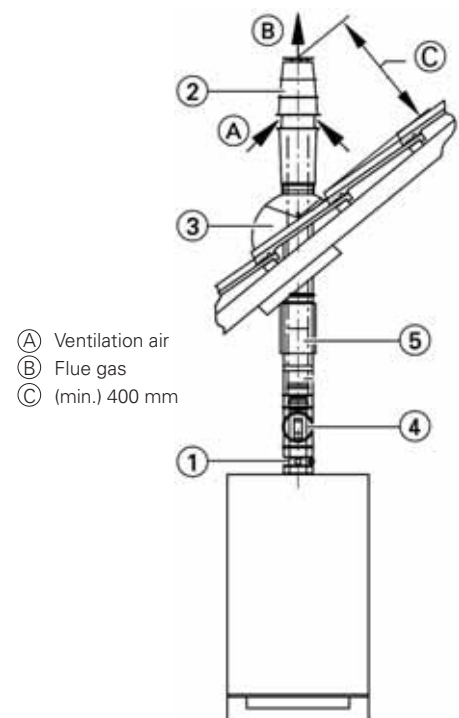
Part no.	60/100	80/125
① Boiler flue connection		
② Balanced flue inspection tee, 87° or Balanced flue inspection bend, 87°		
③ Balanced flue sliding coupling (optional)	7373229	7199782
④ Balanced flue pipe 1.95 m long	7373225	7194322
1 m long	7373224	7194321
0.5 m long	7373223	7194320
⑤ Wall bezel	7176760	7176662
⑥ Fixing clamp	7176762	7176664
⑦ Balanced flue inspection piece, straight (optional)	7373228	7199781
External wall pack with	7373234	7194327
⑧ Balanced flue bend 87°		
⑨ Balanced flue air intake		
⑩ Balanced flue pipe 1.95 m long	7373225	7194322
1 m long	7373224	7194321
0.5 m long	7373223	7194320
⑪ Balanced flue roof outlet (with a high roof overhang above the roof) Black	7373230	7373271
Terracotta	7373231	7373272
⑫ Universal roof tile Lead Free Flashing Black	7452499	7452501
Lead Free Flashing Terracotta	7452500	7452502
⑬ External wall terminal (for a short roof overhang)	7176753	7176655
⑭ Balanced flue bend 45°	7373227	7194324
87°	7373226	7194323



- (A) Flue gas
- (B) Combustion air
- (C) Step in the external wall routing for a short roof overhang

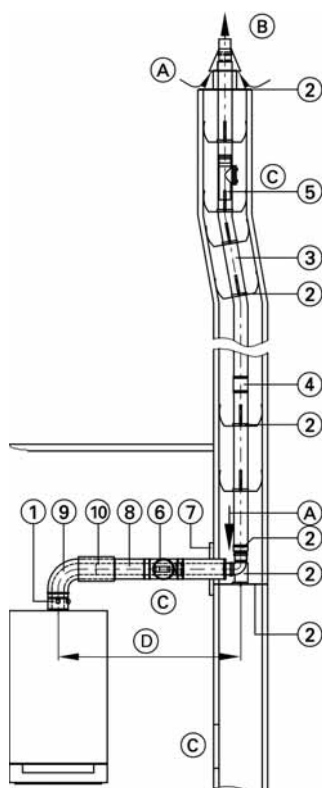
1 Vertical terminal for sloping or flat roofs

Part no.	60/100	80/125
① Boiler flue connection		
② Balanced flue roof outlet Black	7373230	7373271
Terracotta	7373231	7373272
③ Universal roof tile Lead Free Flashing Black	7452499	7452501
Lead Free Flashing Terracotta or Flat roof collar	7248017	7248017
④ Balanced flue inspection piece, straight (optional)	7373228	7199781
⑤ Balanced flue sliding coupling (optional)	7373236	7194329
Balanced flue bend 87°	7373226	7194323
2 × 45°	7373227	7194324
Balanced flue pipe 1 m long	7373224	7194321
0.5 m long	7373223	7194320
Fixing clamp	7176762	7176664

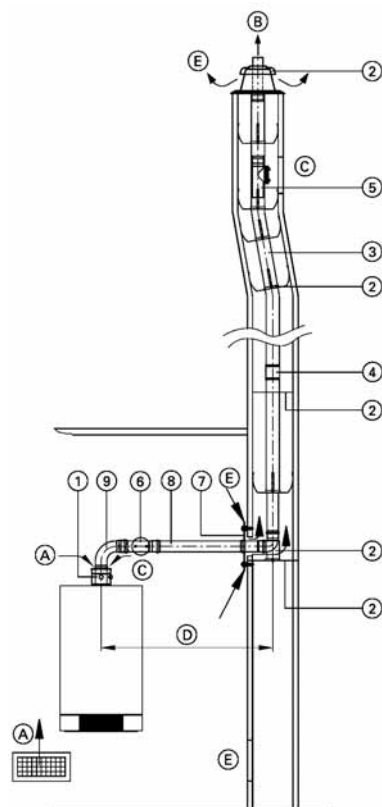


- (A) Ventilation air
- (B) Flue gas
- (C) (min.) 400 mm

Flue location and ventilation



- (A) Combustion air
- (B) Flue gas
- (C) Inspection aperture
- (D) Connection piece



- (A) Ventilation air
- (B) Flue gas
- (C) Inspection port
- (D) Connection piece
- (E) Ventilation aperture

6 Balanced flue operation

Part no.	60/100	80/125
① Boiler flue connection		
② Standard shaft pack (PPS, flexible) comprising: <ul style="list-style-type: none"> ■ Support bend ■ Support rail ■ Shaft cover (PPS) ■ Spacers (5 pce.) or Standard shaft pack (metal/PPS, rigid) For twin flue chimneys (one flue for solid fuel boilers). comprising: <ul style="list-style-type: none"> ■ Support bend ■ Support rail ■ Shaft cover (metal) ■ Terminal pipe (stainless steel) ■ Spacers (5 pce.) 	7248206	7248213
Spacers (5 pce)	7190560	7147035
③ Flexible pipe , on a roll, 12.5 m long.	7248208	7248216
Flexible pipe , on a roll, 25 m long.	7248207	7248215
④ Connecting piece , for connecting residual lengths of the flexible flue pipe.	7248211	7248219
Pipe lowering attachment incl. 20 m rope.	7248212	7248214
⑤ Inspection piece , straight For installation in the flexible flue pipe.	7248210	7248218
⑥ Balanced flue inspection piece , straight.	7373228	7199781
⑦ Wall bezel	7176760	7176662
⑧ Balanced flue pipe 1 m long.	7373224	7194321
0.5 m long.	7373223	7194320
⑨ Balanced flue bend 87°	7373226	7194323
Chimney flue kit (12.5 m) comprising: parts 2, 3, 7, 8, 9	ZK00029	ZK00031

2 Open flue operation

Part no.	60/100	80/125
① Boiler flue connection		
② Standard shaft pack (PPS, flexible) comprising: <ul style="list-style-type: none"> ■ Support bend ■ Support rail ■ Shaft cover (PPS) ■ Spacers (5 pce.) or Standard shaft pack (metal/PPS, rigid) For twin flue chimneys (one flue for solid fuel boilers). comprising: <ul style="list-style-type: none"> ■ Support bend ■ Support rail ■ Shaft cover (metal) ■ Terminal pipe (stainless steel) ■ Spacers (5 pce.) 	7248206	7248213
Spacers (5 pce)	7190560	7147035
③ Flexible pipe , on a roll, 12.5 m long.	7248208	7248216
Flexible pipe , on a roll, 25 m long.	7248207	7248215
④ Connecting piece , for connecting residual lengths of the flexible flue pipe.	7248211	7248219
Pipe lowering attachment incl. 25 m rope.	7248212	7248214
⑤ Inspection piece , straight For installation in the flexible flue pipe.	7248210	7248218
⑥ Inspection piece , straight	7248216	7248312
⑦ Vent bezel	7176728	7176634
⑧ Pipe 1 m long	7373214	7194310
0.5 m long	7373215	7194311
⑨ Bend 87°	7373218	7194314
45° (2 pce)	7373219	7194315
or Inspection tee 87°	7373217	7194313
Stainless steel extension for shaft cover 380 mm long (metal/PPS, rigid)	7373278	7373278
Chimney flue kit (12.5 m) comprising: parts 2, 3, 7, 8, 9	ZK00029	ZK00031

Flue lengths

2 Max. total flue length up to the boiler flue connection (at system temperature 50/30°C)								
4	5	6	Vitodens 100-W Rated output range (kW)		6.5	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
5	6	6	Vitodens 100-W Rated output range (kW)		7.9	7.9	7.9	7.9
			Open vent	13.0	16.0	19.0	26.0	35.0
6	6	6	Vitodens 100-W Rated output range (kW)		13.5	13.5	13.5	13.5
			Open vent	13.5	13.5	13.5	13.5	17.0
6	6	6	Vitodens 111-W Rated output range (kW)				6.5	8.8
			max. length (m) - system size 60/100				26.0	35.0
6	6	6	Vitodens 111-W Rated output range (kW)				15.0	15.0
			max. length (m) - system size 60/100				15.0	15.0
6	6	6	Vitodens 200-W Rated output range (kW)		4.8	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
6	6	6	Vitodens 200-W Rated output range (kW)		20	20	15	15
			max. length (m) - system size 60/100		20	20	15	15
6	6	6	Vitodens 222-F Rated output range (kW)		4.8	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
6	6	6	Vitodens 222-F Rated output range (kW)		20	20	15	15
			max. length (m) - system size 60/100		20	20	15	15
6	6	6	Vitodens 242-F Rated output range (kW)		4.8	6.5		
			max. length (m) - system size 60/100		19.0	26.0		
6	6	6	Vitodens 242-F Rated output range (kW)		20	20		
			max. length (m) - system size 60/100		20	20		

Allowed for are 2 bends 87° (incl. support bends).

1 Max. total flue length up to the boiler flue connection (at system temperature 50/30°C)								
3	3	3	Vitodens 100-W Rated output range (kW)		6.5	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
3	3	3	Vitodens 100-W Rated output range (kW)		19.0	13.5	13.5	17.0
			max. length (m) - system size 60/100		19.0	13.5	13.5	17.0
3	3	3	Vitodens 100-W Rated output range (kW)		7.9	7.9	7.9	7.9
			Open vent	13.0	16.0	19.0	26.0	35.0
3	3	3	Vitodens 100-W Rated output range (kW)		13.5	13.5	13.5	17.0
			max. length (m) - system size 60/100		13.5	13.5	13.5	17.0
3	3	3	Vitodens 111-W Rated output range (kW)				6.5	8.8
			max. length (m) - system size 60/100				26.0	35.0
3	3	3	Vitodens 111-W Rated output range (kW)				15.0	15.0
			max. length (m) - system size 60/100				15.0	15.0
3	3	3	Vitodens 200-W Rated output range (kW)		4.8	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
3	3	3	Vitodens 200-W Rated output range (kW)		10	10	10	10
			max. length (m) - system size 60/100		10	10	10	10
3	3	3	Vitodens 222-F Rated output range (kW)		4.8	6.5	8.8	8.8
			max. length (m) - system size 60/100		19.0	26.0	30.0	35.0
3	3	3	Vitodens 222-F Rated output range (kW)		10	10	10	10
			max. length (m) - system size 60/100		10	10	10	10
3	3	3	Vitodens 242-F Rated output range (kW)		4.8	6.5		
			max. length (m) - system size 60/100		19.0	26.0		
3	3	3	Vitodens 242-F Rated output range (kW)		10	10		
			max. length (m) - system size 60/100		10	10		

Allowed for are 2 bends 87° (incl. support bends).

Vitodens 100-W Combination & System

For concentric or balanced flue systems the max. flue length can be up to 19 m.

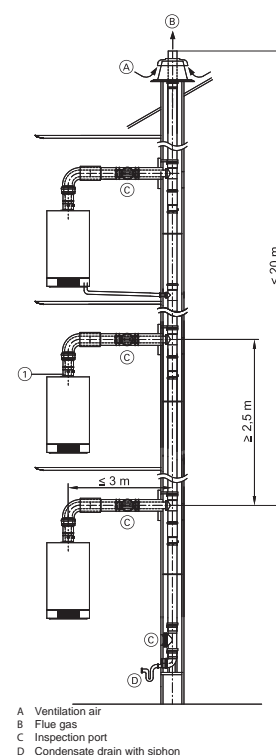
To match the boiler output to the flue system length, a concentric factor has to be set

- see installation instructions.

Communal Flue System (CFS)

A CFS system could be designed as shown below. To be able to provide correct parts it is important to know how the boiler is linked to the CFS duct.

System size	60	80
Parallel adapter \varnothing 60/100mm - \varnothing 60/60 mm	7418011	
For separate routing of flue gas and ventilation air		
Parallel adapter \varnothing 60/100mm - \varnothing 60/60 mm		7418011
For separate routing of flue gas and ventilation air		



A Ventilation air
B Flue gas
C Inspection port
D Condensate drain with siphon

Vitodens accessories

Description	100-W Open vent	100-W System Combination & P25/P29	111-W	200-W	222-F	242-F	Part no.
Telescopic flue kit Ø 60/100 mm	■	■	■	■			7411961
Std 1 m horizontal flue kit Ø 60/100 mm (1 000 mm terminal, 87° bend)	■	■	■	■	■	■	7441467
SC vertical flue terminal Ø 60/100 mm	■	■	■	■	■	■	7373230
SC 45° flue elbow Ø 60/100 mm (pair)	■	■	■	■	■	■	7373227
SC 87° flue elbow Ø 60/100 mm	■	■	■	■	■	■	7373226
SC 1.95 m flue extension pipe Ø 60/100 mm	■	■	■	■	■	■	7373225
SC 1 m flue extension pipe Ø 60/100 mm	■	■	■	■	■	■	7373224
SC 0.5 m flue extension pipe Ø 60/100 mm	■	■	■	■	■	■	7373223
SC flue mounting clip Ø 100 mm	■	■	■	■	■	■	7176762
Terminal guard	■	■	■	■	■	■	7337276
Plume management kit	■	■	■	■	■	■	7373238
Flue bend 45° Ø 60 mm (pair)	■	■	■	■	■	■	7373266
Flue bend 87° Ø 60 mm	■	■	■	■	■	■	7373267
Plume kit 1 m flue extension Ø 60 mm	■	■	■	■	■	■	7373268
Fixing clamps - 60 mm	■	■	■	■	■	■	7246572
Roof tile lead Ø 125 black (for 60/100 mm flue system)	■	■	■	■	■	■	7452499
Roof tile lead Ø 125 red (for 60/100 mm flue system)	■	■	■	■	■	■	7452500
Roof tile lead Ø 160 black (for 80/125 mm flue system)	■	■	■	■	■	■	7452501
Roof tile lead Ø 160 red (for 80/125 mm flue system)	■	■	■	■	■	■	7452502
Roof Flashing Kit D=200	■	■	■	■	■	■	7452503
Chimney flue kit 60/100 - 12.5 m / room sealed	■	■	■	■	■	■	ZK00028
Chimney flue kit Ø 60/100 mm - 12.5 m / open flued (For longer flue lengths upgrade to Ø 80/125 mm)	■	■	■	■	■	■	ZK00029
Flue adaptor 60/100 to 80/125 mm	■	■	■	■	■	■	7373240
LPG conversion kit for Vitodens 100-W Compact WB1B	■						7828769
LPG conversion kit 19/26 kW for Vitodens 100-W WB1C/P25		■	■				7837261
LPG conversion kit 30/35 kW for Vitodens 100-W WB1C/P29		■	■				7837262
DHW connection set for third party unvented cylinders includes extension module H1, DHW sensor				■			Z006704
DHW cylinder sensor with retainer for Vitocell unvented cylinders (G3 compliant)		■		■			ZK00539
Stand off frame for Vitodens 100-W WB1C Combi/System		■			■		7474189
DHW secondary circuit kit (Vitodens 222-F also requires 7452092 Extension AM1)					■	■	7351819
Wall mounting bracket for Vitotronic 100/200 includes wall bracket, cover for boiler and 5 m cable				■			7299408
Sub-mounting mixer kit for Vitodens 200-W up to 35 kW only with Vitotronic 200 - 2 heating circuits				■			7439104
Boiler high efficiency modulating pump up-grade				■	■		7424493
Sub mounting mixer kit for Vitodens 100-W WB1C		■					Z010820
Vitocom 100 (Type GSM) for remote control via GSM/mobile phone network (excl SIM card)				■	■	■	Z004594
Vitocom 100 LAN 1 with LON module (not for Vitodens 100 range)				■	■	■	Z011224
Condensate pump (Liang) for low level boiler installation	■	■	■	■	■	■	7374796
Valve fittings cover				■			7438096
Tool kit	■	■	■	■	■	■	9537070
Ionisation current test adaptor	■	■	■	■	■	■	7822883
Plate heat exchanger flushing system	■	■		■	■	■	7373005
Solar control module (SM1)				■			7429073
Internal H1 extension				■			7498513
Internal H2 extension (controls extractor fan, DHW secondary pump, fault messages etc)				■			7498514
Pre-plumbing jig Combi boiler for Vitodens 100-W WB1C - excl filling loop		■					7476447
Pre-plumbing jig System boiler for Vitodens 100-W WB1C - excl filling loop		■					7476448
Tundish set for combined condensate & PRV drain		■	■				7459591

Plume management kit

The plume kit enables the relocation of the flue outlet of a standard horizontal flue system to another position and is available as an optional extra.

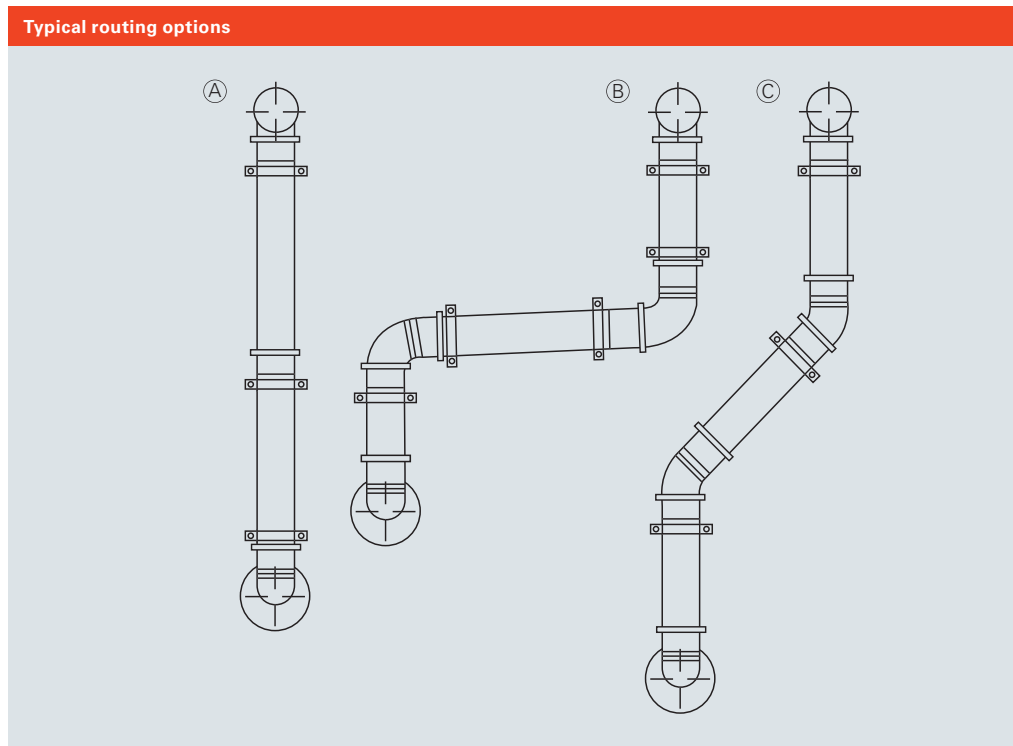
- Ensure the maximum length of 3 m (externally) and 7 m (internally) is not exceeded
- The maximum length is reduced by 1 m when using a further 87° bend or 2 x 45° bends
- Deduct 3 m from the maximum possible standard concentric horizontal flue length and add the standard plume kit maximum length to give maximum length of entire flue system. ie. 6 m - 3 m + 2 m = 5 m maximum

The standard plume kit comprises of the following parts:

- 87° connection to horizontal terminal
- 1 m pipe extension
- 87° flue outlet elbow with bird mesh
- Fixing clamps



Installed to prevent nuisance plumbing across the window



Kit contents

Item	Part no.
Ⓐ Plume kit standard delivery 2 m max. length	7373238
Ⓑ Plume kit standard delivery additional options	
2 x 87° bends	7373267
1 pipe 1 m long	7373268
Ⓒ Plume kit standard delivery additional option	
2 x 45° bends	7373266
1 pipe 1 m long	7373268
Fixing clamps	7246572

Controls

Viessmann boilers have the added benefit of advanced control technology.

Viessmann controls are easy to install, maintain and operate and benefit from fault logging and diagnostic systems. They switch easily between Winter and Summer settings and some models have useful short cuts, including holiday, party and economy settings. All Vitodens boilers will operate with Viessmann and non-Viessmann external controls.

Lambda Pro Control

The Lambda Pro combustion controller works along side the burner to constantly monitor the air to gas ratio. Instead of the gas mix remaining fixed from installation, the mix is automatically adjusted to maintain the correct ratio – in a similar way to the fuel management system in your car engine. This also means that on-site commissioning time is reduced.

The Lambda Pro is designed to work efficiently irrespective of the quality of the gas – a factor which will become more and more important as international gas supplies become less reliable.

The control replaces the traditional gas valve and changing to LPG takes just a few seconds – with no replacement parts! The Lambda Pro is an integral component of the Vitodens 200-W, Vitodens 222-F and Vitodens 242-F.

Weather Compensation

Weather compensation controls are a great, low cost way to make a boiler operate more efficiently. They can save up to 15% of annual fuel bills – that's on top of the big savings that you get from changing to a condensing boiler.

The boiler is connected to a small sensor on the outside of the building. When the temperature changes outside, the boiler responds and starts to increase or decrease the radiator temperature, to compensate. This pro-active mechanism means that people inside the building won't even notice that the temperature outside has changed. These constant small changes also mean that the boiler is able to operate at the minimum temperature required to keep the rooms warm. This keeps the return temperature as low as possible and a return temperature of 57°C or less means the boiler can condense as it is designed to. Weather compensation maximises the condensing period of the boiler and results in significant fuel savings.

Vitotrol 100 control system for Vitodens 100-W and 100-W Compact

Thermostat

- Vitotrol 100 room thermostat. Basic room thermostat with switched output (two-point output) (a)
- Vitotrol 100 UTA RF wireless programmable room thermostat. Analogue 24 hour, one channel clock (c)
- Vitotrol 100 UTDB RF2 wireless programmable room thermostat. Digital 7 day, two channel clock with large LCD display and selector for adjusting permanent comfort, permanent set back and frost protection (d)
- Vitotrol 100 open therm. 7 day single channel wired programmable room controller. For use with the Vitodens 100-W (not WB1B) (h)

Timer

- Analogue plug-in clock for operation with Vitotrol 100 room thermostat. Single channel plug-in time switch. Heating program selector switch with switched output for 24 hour programmable heating operation (e)
- Digital plug-in clock for operation with Vitotrol 100 room thermostat. Two channel plug-in time switch for heating and DHW. 7 day programming, with up to 42 switching programs and adjustable holiday program (b)

Vitotrol 200 RF control system for Vitodens 200-W, 222-F and 242-F

- Vitotrol 200 RF wireless remote control (f) with LCD display for 1 heating circuit for use with Vitotronic 200
- Repeater (optional signal booster for systems with poor reception)
- Receiver unit that operates up to 3 Vitotrol 200 RF units

Vitotrol 300-A control system for Vitodens 200-W, 222-F and 242-F

- Vitotrol 300-A wireless remote control (g) with LCD display for 3 heating circuits for use with Vitotronic 200
- Room temperature sensor (optional)
- Up to 2 remote control units can be connected to the boiler control unit, Vitotronic 200

Vitotronic control systems for Vitodens 200-W, 222-F and 242-F, with economic energy management for all system sizes

Vitotronic control units think for you – from installation through to operation and maintenance. Whether used in an apartment, a detached home or in large systems, they offer the optimum solution for every need. As digital control systems with communication capability they ensure the economical and reliable operation of your heating system with well thought out electronic management.

One control system for all boilers

All Viessmann boilers, whether wall mounted units, small freestanding boilers or larger boilers – are all controlled by one Vitotronic. That means: common parts throughout the entire boiler range, standardised assembly steps and only a few universal spare parts. This substantially simplifies installation, maintenance and service.

The innovative Viessmann modular design combines the basic chassis and function units to create various control unit versions – in each case matching the boiler and the individual requirements.



h.)

e.)



The graphic display of the new Vitotronic control unit can also display the solar yield



Vitosolic 100 solar control unit



Vitotrol 200



Vitotrol 300-A

The new Vitotronic generation of programming and control units introduces user prompts for setting and controlling heating systems. Navigation is as easy as can be and mirrors the well known scroll wheel you are familiar with from mobile phones or TV remote controls.

Notice the sophisticated black fascia of the new Vitotronic series of compact appliances, with its rich contrast of black and white on the front fascia. It features a multi-line plain text display with large, easily legible fonts and the display is 70% larger than comparable devices. The display can show graphics including heating curves and can show the solar yield in interactive mode. It is also backlit and, thanks to the clear monochrome contrast is easily legible even in poorly lit installations.

The programming unit of the Vitotronic can be removed from the front of these appliances and can be sited up to 5 m away from the boiler, enabling installation in areas with restricted access, e.g. if the boiler is installed in a garage or loft.

The modular Vitotronic control units are available for weather compensated control of their respective heat sources.

Weather compensation

- Vitotronic 200 HO1B plug-in weather compensation control

External sensor for weather compensation

- Weather Compensation Outdoor Sensor

Vitosolic – solar control units

Intelligent energy management. With a Vitosolic solar control unit, you can use solar energy very effectively. This system covers all conventional applications and can control up to four separate heating circuits, e.g. cylinders and swimming pools.

By communicating with the Vitotronic boiler control unit, the Vitosolic ensures that optimum use is made of the heat obtained from the solar collectors, and that as little additional energy as possible is used for DHW or central heating. This suppresses the boiler and reduces heating costs. Thanks to a plain text menu driven display, the control unit is easy to operate as it uses the proven Vitotronic user interface. Information regarding the solar thermal system can also be viewed on the Vitotronic boiler control unit and the Vitotrol 300 remote control.

Vitosolic 100

- Attractively priced, electronic temperature differential control unit for DHW heating with solar heating systems
- Simple operation – identical to the Vitotronic user interface
- Dual display provides information about the actual temperature and the operating conditions of the pump

Vitosolic solar controls

- Vitosolic 100 SD1 Part No 7438086
- Includes Cylinder temperature sensor and Collector temperature sensor

Accessories for constant temperature controllers

Description	Vitodens 100-W Compact	Vitodens 100-W SYSTEM & COMBI & P25/P29	Vitodens 111-W	Vitodens 200-W (up to 35 kW)	Vitodens 222-F	Vitodens 242-F	Part no.
Digital time clock (plug-in) 2 channel WB1B (only in conjunction with weather compensation)	■						7296063
Analogue time clock for Vitodens 100-W WB1C		■	■				7454529
Digital time clock for Vitodens 100-W WB1C		■	■				7454528
Vitotrol 100 Room Thermostat	■	■	■	■	■	■	7141709
Vitotrol 100 UTA programmable room thermostat 24h analogue		■	■	■	■	■	7170149
Vitotrol 100 UTDB programmable room thermostat - 7 day, single channel		■	■	■	■		Z007691
Vitotrol 100 UTA RF wireless plug-in programmable room thermostat, 1 channel, 24h WB1B (only in conjunction with weather compensation)	■						7296064
Vitotrol 100 UTDB RF2 wireless plug-in programmable room thermostat, 2 channel, 7 day WB1B (only in conjunction with weather compensation)	■						Z007693
Vitotrol 100 UTA RF 1 channel for Vitodens 100-W WB1C		■	■				7454521
Vitotrol 100 UTDB RF2 for Vitodens 100-W WB1C		■	■	■	■	■	7454522
Vitotrol 100 UTDB RF wireless programmable room thermostat - 7 day, single channel		■		■	■		Z007692
Weather Compensation Outdoor Sensor		■	■				Z006506
Weather Compensation Outdoor Sensor (incl DHW demand box)	■						Z007933

Accessories for Vitotronic 200 (H01B) weather compensation controller

Description	Vitodens 100-W Compact	Vitodens 100-W SYSTEM & COMBI & P25/P29	Vitodens 111-W	Vitodens 200-W (up to 35 kW)	Vitodens 222-F	Vitodens 242-F	Part no.
Room temperature sensor				■	■	■	7408012
Vitotrol 200A remote control with LCD display for 1 heating circuit				■	■	■	Z008341
Vitotrol 200 RF pack 1 (includes RF control and receiver) for Vitodens 200/222/242				■	■	■	Z011471
Vitotrol 200 RF remote control with LCD display				■	■	■	Z011219
Repeater (optional signal booster) for Vitotrol 200 RF				■	■	■	7456538
Vitotrol 300A remote control with LCD display for up to 3 heating circuits				■	■	■	Z008342
Vitotrol 300 RF receiver unit				■	■	■	Z011413
Vitotrol 300 RF RC with table stand				■	■	■	Z011410
Vitotrol 300 RF RC with wall mount				■	■	■	Z011412
Vitotrol 300 RF RC with table stand and receiver				■	■	■	Z011962
Vitotrol 300 RF RC with wall mount and receiver				■	■	■	Z011963
Room Temperature Sensor (optional for Vitotrol 300A - only)							7438537
Extension EA1 - wall mounted extension of up to 5 different in and output signals: 1 analogue 0-10 V, 3 digital inputs:1 potential free output				■	■	■	7452091
Extension AM1 - function extensions wall mounted to control up to 2 pumps, i.e. DHW secondary circulation pump, pump for DHW heating, CH pump without mixer				■	■	■	7452092

2 year comprehensive warranty as standard
25 year warranty on 200 range stainless steel vessel



Cylinders

The Vitocell range from Viessmann offers the right domestic hot water cylinder for every demand, ideally matched to the heat source.

Warranty

- 25 year warranty on the 200-V and 200-B stainless steel vessel against perforation
- Standard 2 year warranty on all other parts, e.g. 300-V and 300-B, thermal controls, valves, electrical components, etc

Unique G3 application

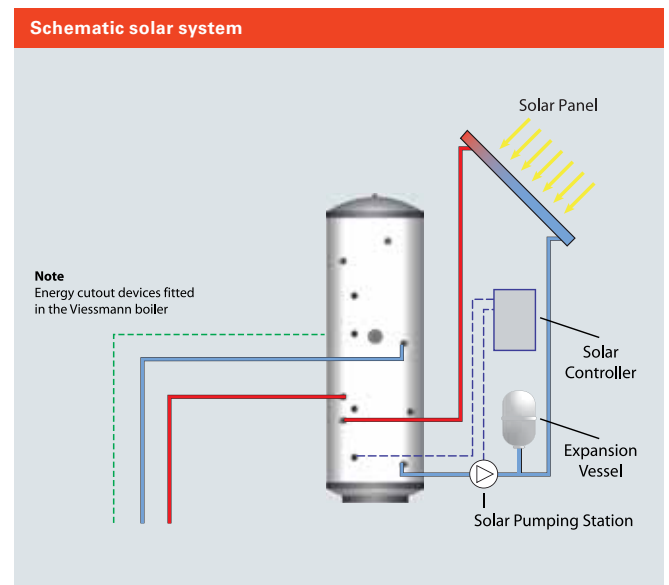
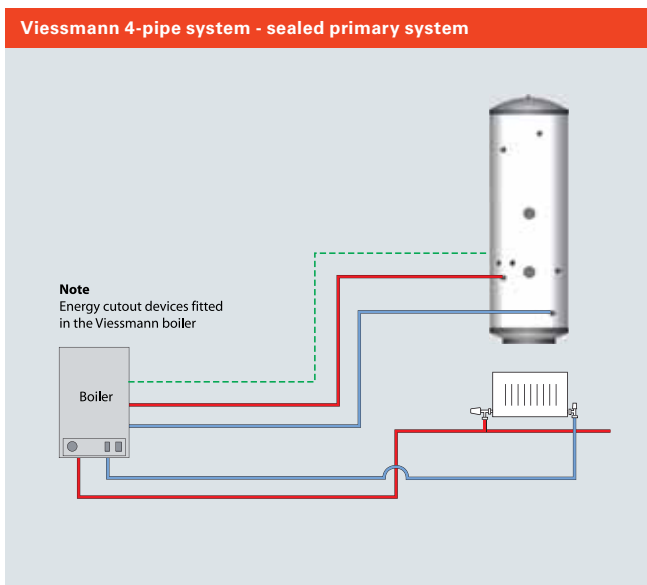
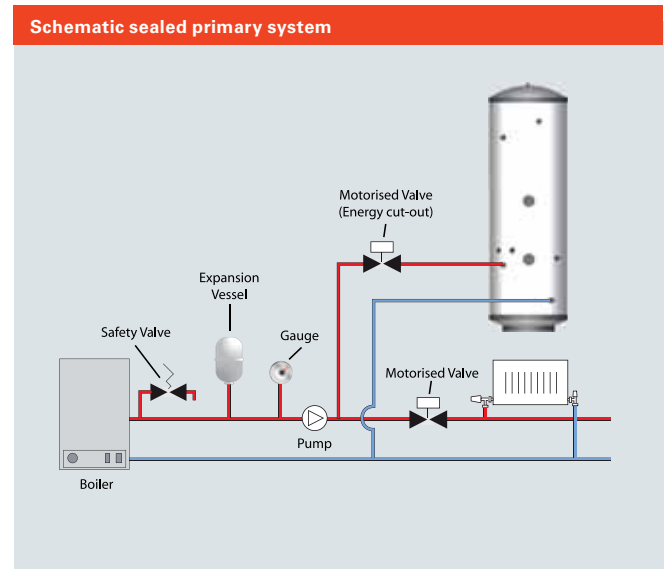
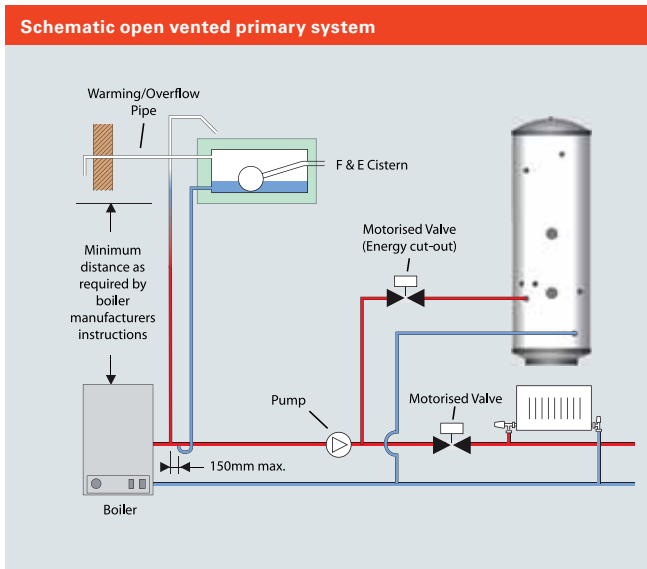
For details of how Viessmann System boilers and cylinders can meet G3 building regulations while saving both time and expense see page 22

Application guide

Hot water demand	Bedrooms	Cylinder size (litres)
1 Bathroom or shower	1	90
1 Bathroom with shower	2 - 3	120
1 Bathroom with shower	3 - 4	150
1 Bathroom with 2 showers	3 - 4	150 - 180
2 Bathrooms and separate shower	4 - 5	210
3 Bathrooms and separate shower	4 - 5	250
3 Bathrooms with 2 separate showers	> 5	300

Cylinders

The cylinders come with all necessary accessories and can be connected to traditional open vented and sealed 'S' type systems, or in conjunction with our preferred 4-pipe system for optimum performance.



VITOCCELL 200-V

The Vitocell 200 range of unvented hot water storage cylinders are indirectly heated cylinders designed for use with Vitodens system boilers (or UK standard boilers).



With a Vitodens system boiler the cylinder is controlled by the built-in diverter valve and the optional tank sensor and comes supplied with all cold and hot water controls and a two-port valve for domestic hot water. The single coil cylinders are available in seven sizes, from 90 litres to 300 litres. Manufactured from the very latest high specification Duplex stainless steel to resist all forms of corrosion, the cylinders are nevertheless light and easy to handle and insulated with at least 50 mm of polyurethane foam. This results in astonishingly low levels of heat loss and a performance greater than CHES requirements.

All cylinders are also provided with an auxiliary back up 3 kW electric immersion heater. The operating thermostat and energy cut-out are for use with non-Viessmann boilers or traditional 'S' or 'Y' plan systems. The immersion heater is fitted at the front for easy access and designed for use in un-vented installations, and it contains an additional safety overheat thermostat.

- CFC/HCFC free fire retardant polyurethane foam with an ozone depletion potential of zero (ODP Zero) and a global warming potential (GWP) of one
- Insulation exceeds CHES Best Practice, as low as 1.4 kW/24 hr
- High recovery heating coil in less than 19 minutes
- All cylinders have a separate sensor pocket for connection to a Viessmann 4-pipe system
- Stand alone cylinder, complies with G3 Building Regulations
- High flow rates achievable working at 3.0 Bar
- External expansion vessel (supplied)
- Dimensions of 600 mm at widest point
- Simple front connection compression fittings
- Back up 3 kW immersion heater
- Simple maintenance – no anode required
- Lightweight design for ease of transport and handling
- 25 year warranty against corrosion

Vitocell 200-V

Model	Height (mm)	Diameter (mm)	kW rating of primary coil (kW)	Recovery time after 70% draw of (min)*	Stand-by losses (kWh/24h)**	Expansion vessel	Part no.
200-V 90	732	550	16.5	19	0.90	12 litre	7160768
200-V 120	920	550	18	19	1.00	12 litre	7160769
200-V 150	1 107	550	18.5	19	1.20	18 litre	7160770
200-V 180	1 295	550	19	21	1.40	18 litre	7160771
200-V 210	1 493	550	20.5	26	1.60	24 litre	7160772
200-V 250	1 733	550	21.5	30	1.75	24 litre	7160773
200-V 300	2 020	550	25	32	1.83	40 litre	7160774

* Approx re-heat time for 70% of cylinder contents from 15°C to 65°C using a 82°C flow

** Meets CHES Best practice requirements

VITOCCELL 300-V

The Vitocell 300 range of unvented hot water storage cylinders are indirectly heated cylinders designed for use with Vitodens system boilers and characterised by the use of heavy gauge quality stainless steel.

The Vitocell 300 range is characterised by the use of heavy gauge quality stainless steel, in many cases twice as thick as competitor products. Substantial insulation and the construction of the cylinder ensures leading heat loss performance. The single coil cylinders are available in five sizes, from 130 litres to 500 litres, and can satisfy larger demands for DHW as several units can be linked together.

Vitocell 200-V and 300-V

Single coil		Vitocell 300-V	Vitocell 200-V
Volumes	litres	200/300/500	90/120/150/180/210/250/300
Material		SS 1.4571	SS Duplex
Thickness/gauge	mm	2.5 - 2.6	1
Max. pressure	bar	16	10
Operating pressure	bar	10	3
Insulation		PUR	PUR
Heat loss in 24h	kW/hr	1.17	1.4
Height	mm	1 420	1 295
Width/diam.	mm	variable	550
Overall width	mm	651	600
Immersion heater	kW	2/6 (400V)	3 (230V)
Warranty	years	2	25
Coil rating	kW	40	19
Weight (net)	kg	85	28
Expansion vessel type	litres	External vessel	External vessel



VITOCCELL 200-B

Dual-mode domestic hot water cylinders work to heat the domestic hot water with separate indirect coils that are connected directly to the solar thermal system.

An electric immersion heater is integrally fitted to the cylinder. Domestic hot water cylinders are available in 210, 250 and 300 litre sizes.

CFC/HCFC free fire retardant polyurethane foam with an ozone depletion potential of zero (ODP Zero) and a global warming potential (GWP) of one.

- Insulation exceeds CHES Best Practice, as low as 1.9 kW/24 hr
- High recovery heating coil in less than 19 minutes
- All cylinders can be connected to Viessmann 4-pipe systems with separate sensor pocket
- Stand alone cylinder, complies with G3 Building Regulations

- High flow rates achievable working at 3.0 bar
- External expansion vessel (supplied)
- Dimensions of 600 mm at widest point
- Simple front connection compression fittings
- Back up 3 kW immersion heater
- Simple maintenance – no anode required
- Lightweight design for ease of transport and handling

Note that the solar cylinders are not supplied with a two-port valve for the solar circuit. It can be omitted if the following applies:

- The solar collector is wholly above the cylinder
- The high limit thermostat act directly on the pump
- That check-valves are present on both flow and return pipes to prevent gravity circulation

Vitocell 200-B

Model	Height (mm)	Diameter (mm)	kW rating of primary coil (kW)	kW rating of solar coil (kW)	Recovery time after 70% draw of (min)*	Stand-by losses (kWh/24h)**	Expansion vessel	Part no.
VC 200-B 210	1 483	550	18.5	19	16	1.60	24 litre	7160775
VC 200-B 250	1 733	550	19	19	19	1.75	24 litre	7160776
VC 200-B 300	2 020	550	20.5	19	20	1.93	40 litre	7160777

* Approx re-heat time for 70% of cylinder contents from 15°C to 65°C using a 82°C flow

** Meets CHES Best practice requirements

VITOCCELL 300-B

The Vitocell 300-B is a dual mode DHW cylinder with two indirect coils. Made from high alloy stainless steel, the Vitocell 300-B is a reliable and efficient solution for the integration of two energy sources.

The cylinders are available in two sizes, either 300 litres or 500 litres.

Vitocell 200-B and 300-B

Twin coil		Vitocell 300-B 300	Vitocell 200-B 300
Volumes	litres	300/500	210/250/300
Material		SS 1.4571	SS Duplex
Thickness/gauge	mm	2.8	1
Max. pressure	bar	16	10
Operating pressure	bar	10	3
Insulation		PUR	PUR
Heat loss in 24h	kW	1.17	1.9
Height	mm	1 790	2 020
Width/diam.	mm	633	550
Overall width	mm	700	600
Immersion heater	kW	2/6(400V)	3 (230V)
Warranty	years	2	25
Coil rating	kW	54	19
Weight (net)	kg	100	46
Expansion vessel type	litres	External vessel	External vessel



Solar

Viessmann is one of the leading European manufacturers of solar thermal systems with innovative flat plate and tube collectors for domestic hot water (DHW) and central heating back up.

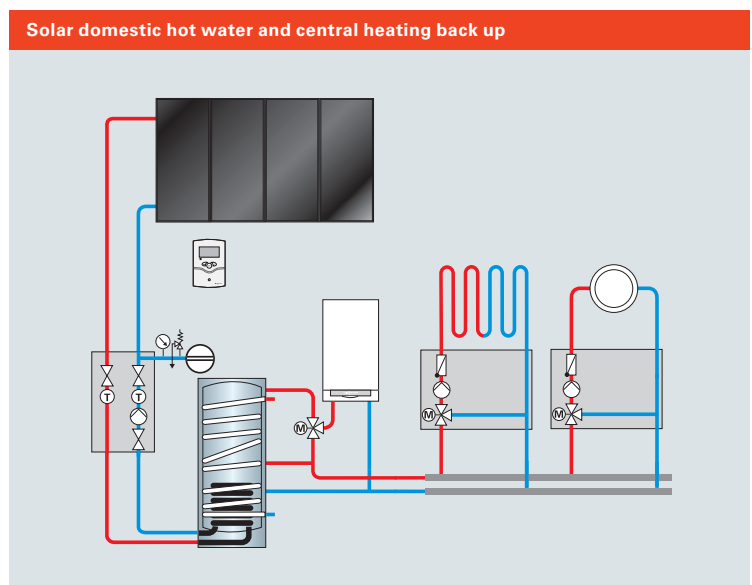
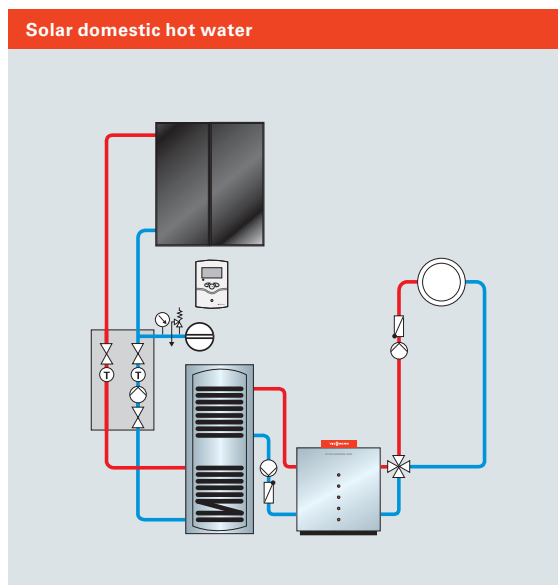
By combining Viessmann condensing boilers and highly efficient solar collectors it is possible to save up to 35% on heating costs, if the solar collectors are used for both DHW heating and central heating back up. Used for DHW heating alone, the energy consumption required can be lowered by up to 60%. Across all UK homes, this would be 15% of the total UK energy consumption and would reduce annual CO₂ emissions by 92 million tonnes.

With more than 30 years experience in the development and manufacture of solar thermal systems, you can count on Viessmann to provide the highest levels of innovation and quality.

Viessmann's company philosophy; "nothing is so good that it cannot be improved" has resulted in continually improving standards in quality and technology, with Viessmann now considered as the European market leader in solar DHW systems.

Viessmann solar collectors are designed for an exceptionally long service life, guaranteed by the use of high-grade, corrosion-resistant materials such as glass, aluminium, copper and stainless steel.

- Collectors are guaranteed for 5 years against material and manufacturing defects
- All other items carry a 2 year warranty, e.g. Roof fixing equipment, expansion vessel, etc



Solar thermal system

1 Vitosol solar thermal collectors

The flat plate and tube collectors from the Vitosol series can be optimally matched to the relevant energy demand

2 Condensing boiler with dual-mode DHW cylinder

The heart of this solution is the dual-mode DHW cylinder, with two heating coils. The lower coil is connected to the solar collectors and pre-heats the water in the cylinder, reducing the requirement from the boiler

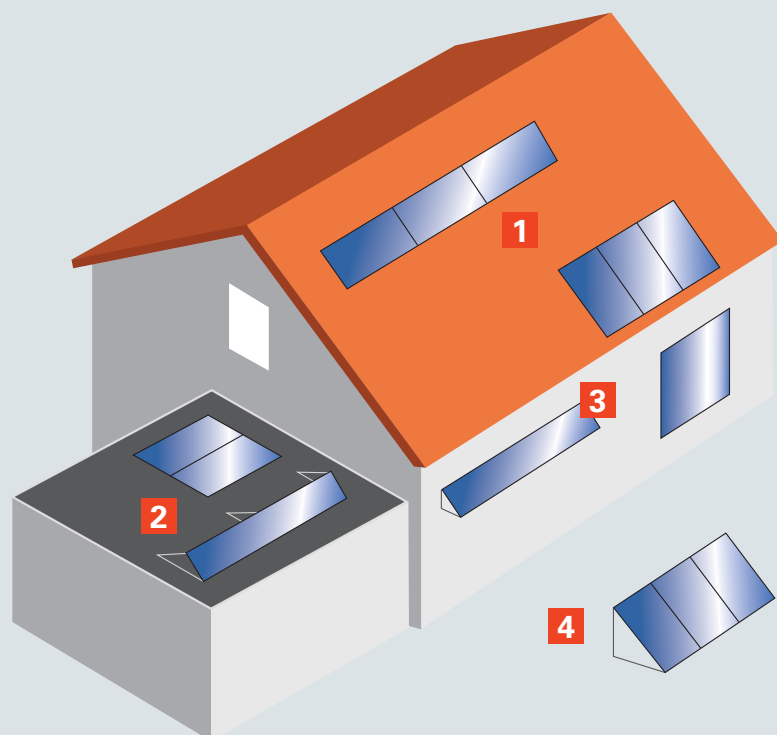
3 The Solar-Divicon pump station

Ensures correct functioning of thermal safety and hydraulic systems and contains solar pump, flow meter, thermometers, and isolation and safety valve



Solar installation options

- 1 Pitched roof
- 2 Flat roof
- 3 Wall/balcony rail/balustrade
- 4 Freestanding installation



VITOSOL 100-F

The Vitosol 100-F is an attractively priced flat plate collector with a coated aluminium absorber.

The weather resistant aluminium frame and seamless seal guarantee permanent tightness and stability. Highly effective thermal insulation reduces heat loss particularly during Spring, Autumn and Winter when ambient temperatures decline. Easy installation with the possibility for up to ten collectors connected in parallel, combined with Viessmann's renowned reliability ensures the Vitosol 100-F is suited for all standard applications on family homes and is a particularly effective means of DHW heating.

- Plate collector with coated aluminium absorber
- High quality weather resistant aluminium frame
- Effective thermal insulation
- Easy installation, with options for on-roof and A-frame
- Suitable for standard applications on family homes for DHW heating
- Low investment cost
- Solar panels suitable for coastal areas are available on request



Flat plate collector Vitosol 100-F

Type		SV1	SH1
Gross area	m ²	2.51	2.51
Absorber area	m ²	2.32	2.32
Aperture area	m ²	2.33	2.33
Dimensions (overall)	Depth	mm	72
	Width	mm	1 056
	Height	mm	2 380
Weight (incl. thermal insulation)	kg	43	43



VITOSOL 200-F

The Vitosol 200-F is a high specification flat plate collector and was granted the highest possible rating by the German consumer association equivalent to UK's 'Which?'.

The Vitosol 200-F has an attractive design and the frame is finished in brown as standard and other RAL colours are available on request to match roof tiles. Load tested and corrosion resistant, the Vitosol 200-F is easy to install with the capacity for up to 12 collectors connected in parallel.

- High specification flat plate collector
 - Highest possible consumer association rating
 - Load tested and corrosion resistant
 - Easy installation, with on-roof and in-roof option
 - Seamless, painted aluminium frame
 - No water ingress as concealed seals prevent UV degradation
 - The frame can be specified to match all roof/tile colours
- Stable, highly transparent cover made from special toughened glass allows maximum light in to the collector while ensuring durability
 - The use of copper ensures efficient thermal transfer
 - Meander maximises contact with flat plate collector to provide maximum heat transfer
 - Highly effective thermal insulation minimises heat loss and eradicates condensation problems often found in flat plate collectors
 - Solar panels suitable for coastal areas are available on request



Outstanding quality you can rely on: The German consumer association "Stiftung Warentest" gave the Vitosol 200-F the highest possible rating, beating 10 other panels in the test.

More information at: www.test.de.



Flat plate collector Vitosol 200-F

Type		SV2	SH2
Gross area	m ²	2.51	2.51
Absorber area	m ²	2.32	2.32
Aperture area	m ²	2.33	2.33
Dimensions (overall)	Depth	mm	90
	Width	mm	1 056
	Height	mm	2 380
Weight (incl. thermal insulation)	kg	52	52

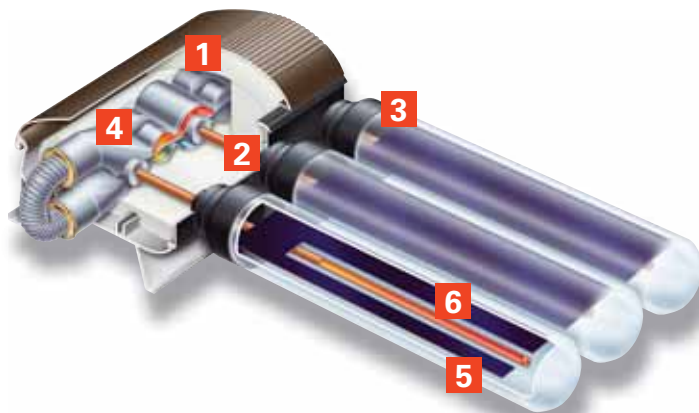


VITOSOL 200-T

The Vitosol 200-T vacuum tube collector is based on the heat pipe principle, delivering additional benefits, in common with the 300-T.

In the 200-T there are a number of additional installation benefits, as the tubes can be fitted onto flat roofs without the need for an A frame, and they are also suitable for horizontal or vertical installation onto walls.

Heat pipe collectors are best applied when the system is expected to be used intermittently or when the heating capacity will often be greater than the heating requirement, as this presents a high risk of stagnation.



- Highly efficient vacuum tube collector based on the heat pipe principle for high operational reliability against overheating
- The Sol-titanium coated absorber surfaces, which are integrated into the vacuum tube, are not susceptible to contamination
- Tubes can be rotated for optimum alignment with the sun, thereby maximising the energy yield
- Highly effective thermal insulation of the header casing for minimal thermal losses, enabling conversion of even low levels of solar radiation
- Patented and highly effective Duotec twin-pipe heat exchanger
- Easy installation through the Viessmann assembly and connection systems

Vitosol Heat Pipe

- 1 Highly effective thermal insulation
- 2 "Dry" connection, no direct contact between process and heat transfer medium
- 3 High-grade, low ferrous glass
- 4 Duotec twin-pipe heat exchanger
- 5 Heat pipe
- 6 Sol-titanium coated absorber



Vacuum tube collector Vitosol 200-T
Heat pipe system

Type		SP2	SP2
Version	m ²	2	3
Gross area	m ²	2.88	4.32
Absorber area	m ²	2.00	3.02
Aperture area	m ²	2.15	3.23
Dimensions (overall)	Depth mm	143	143
	Width mm	1 420	2 129
	Height mm	2 040	2 040
Weight (incl. thermal insulation)	kg	58	87



VITOSOL 300-T

The Vitosol 300-T offers a high performance vacuum tube collector that meets the highest demands of efficiency and safety.

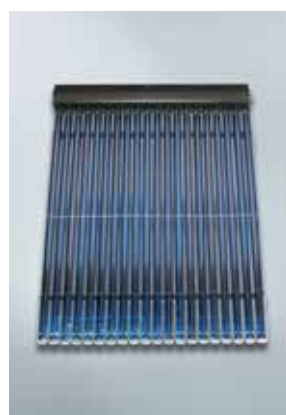
The high performance of the 300-T is based on the proven heat pipe principle. In heat pipe systems, the solar fluid does not flow directly through the tubes. Instead, a small amount of liquid evaporates in the copper pipe below the absorber and transfers the heat to the solar fluid via a heat exchanger.

As well as incorporating heat pipe technology, the Vitosol 300-T benefits from the easy installation, high efficiency and high grade materials found across the Vitosol range.

- Highly efficient vacuum tube collector based on the heat pipe principle for high operational reliability against overheating
- The Sol-titanium coated absorber surfaces, which are integrated into the vacuum tube, are not susceptible to contamination
- Tubes can be rotated for optimum alignment with the sun, thereby maximising the energy yield
- Highly effective thermal insulation of the header casing for minimal thermal losses, enabling conversion of even low levels of solar radiation
- Patented and highly effective Duotec twin-pipe heat exchanger
- Easy installation through the Viessmann assembly and connection systems



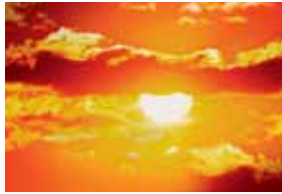
Efficient heat transfer through fully encapsulated condensers and twin-pipe Duotec heat exchanger



Vacuum tube collector Vitosol 300-T
Heat pipe system

Type		SP3A	SP3A
Version	m ²	2	3
Gross area	m ²	2.87	4.32
Absorber area	m ²	2.00	3.02
Aperture area	m ²	2.15	3.23
Dimensions (overall)	Depth	mm	143
	Width	mm	1 420
	Height	mm	2 040
Weight (incl. thermal insulation)	kg	58	87





Solar kits

Viessmann Vitosol flat plate and vacuum tube kits contain every component that you will need for your solar thermal installation, whether for integrated or above roof, horizontal or vertical installations.

The kits offer the option of specifying:

- 100-F flat plate collectors for either horizontal or vertical on roof installation
- 200-F flat plate collectors for in-roof or vertical on roof installation
- 200-T vacuum tube collectors
- or 300-T vacuum tube collectors

All collector and installation options are available. For in-roof installation the integrated panel also includes connection covers.

Solar kits for the Vitodens 242-F heating tower include the following items:

- Collectors, flat plate or tubes
- Roof kit
- Connection set
- Sensor pocket
- Manual air vent
- Through roof flexi pipes
- Expansion vessel
- Tyfocor GLS
- 12 m flexible insulated flow/return pipes
- Air separator
- Filler manifold

Standard Vitosol solar kits for all other installations include the following items:

- Collectors, flat plate or tubes
- Solar Divicon PS10
- Vitosolic 100
- Roof kit
- Connection set
- Sensor pocket
- Manual air vent
- Through roof flexi pipes
- Expansion vessel
- Tyfocor GLS
- Air separator
- Filler manifold

Available as an accessory:

- 12 m flexible insulated flow/return pipes



Support services

Viessmann has always believed that the installer is key.

The Vitodens 100-W boiler range (excluding the P25/P29) comes with a 5 year comprehensive warranty as standard. The Vitodens 200-W and 222-F have a 3 year comprehensive warranty as standard, that increases to 5 years if fitted by a Viessmann trained installer.

Equally our Vitosol solar collectors have a standard 5 year warranty, your perfect tool to win the sale.

Viessmann supports installers and trade partners with a wide range of downloads available from its websites, including technical datasheets, installation guides and user guides. Its team of Technical Advisors can be contacted for help with all aspects of installation, servicing and trouble-shooting. Installers can also request marketing literature to help their customers with product selection.



The Viessmann Academy

The aim of the Viessmann Academy is to provide knowledge on leading technology to professionals in the heating industry, thereby taking a vital role in the development of skill sets and the establishment of new, innovative technologies in the market place.

The Academy has been a major pillar of the Viessmann philosophy since the 1960s and each year trains more than 92 000 installers across the world.

Training courses in the United Kingdom

The Viessmann UK Academy is based at the headquarters in Telford, Shropshire, and also has external training locations around the country, currently in Wishaw, Redcar, Dagenham, Lincoln, Aberdeen, Bolton, Cornwall, East Surrey, Welwyn Garden City and Salisbury.

Here, the Viessmann Academy trains installers, merchants, engineers, specifiers and consultants, not only on the current product range but also on many product types and topics.

To request a place on a Viessmann training course, please contact your Area Business Manager. To find their contact details, call 01952 675000.

Viessmann Academy course offer



Domestic boiler courses

Gas-fired Combination and System boilers Vitodens 100 range, including 100-W and 111-W.
Gas-fired Vitodens 200 range, including 200-W, 222-F and 242-F, and Vitotronic controls.



Commercial boiler courses

Gas-fired light commercial System boiler Vitodens 200-W.
Gas-fired commercial System boiler Vitodens 200-W and Vitotronic controls.
Large floor standing boilers.
Control technology.



Solar courses

Practical solar thermal course including the Vitodens 242-F solar heating tower.
Introduction to solar including Solar PV



Biomass boiler courses

Bespoke courses on commercial biomass boilers.
Vitoligno 300-P pellet boiler.



Heat pump courses

Introduction to heat pumps.
Vitocal 200 range including ground source and air source

The comprehensive product range from Viessmann



Boilers for oil
up to 116 MW heat or
up to 120 t/h steam



Boilers for gas
up to 116 MW heat or
up to 120 t/h steam



Solar thermal
systems and
photovoltaics

 Detached houses			
 Apartment buildings			
 Commerce/Industry			
 Local heating networks			

Individual solutions with efficient systems

The comprehensive Viessmann product range

The comprehensive Viessmann product range offers individual solutions with efficient systems for all application areas and energy sources. For decades, the company has been supplying highly efficient, low emissions heating systems for oil and gas, as well as solar thermal systems, heat sources for sustainable fuels and heat pumps.

The comprehensive Viessmann product range provides cutting edge technology and sets new standards. With its high energy efficiency, it helps to save heating costs and is also the right choice in ecological terms.

Individual and economical

Viessmann offers the right heating system for every requirement – wall mounted or floorstanding, in individual combinations – all are futureproof and economical. Whether for detached or semi-detached houses, large residential buildings, commercial/industrial use or for local heating networks; whether for modernising existing properties or new build – Viessmann systems are always the right choice.

Key performers

The Viessmann Group sets the technological pace for the heating industry. This is what the Viessmann name represents; the company and its subsidiaries are all founded on the same pioneering spirit and power of innovation.

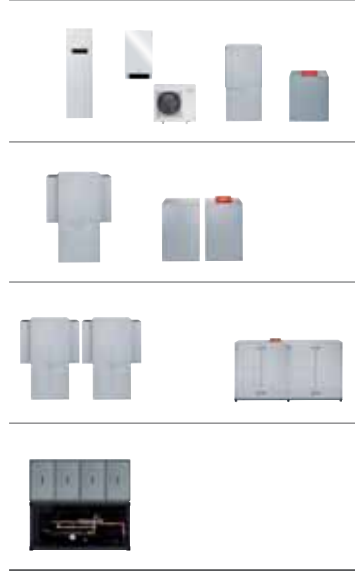


Wood combustion technology, CHP and biogas production up to 50 MW



Heat pumps for brine, water and air

up to 2 MW



Air conditioning technology



System components



The comprehensive range of products and services from Viessmann: individual solutions with efficient systems for all energy sources and application areas

The product range for all fuel types and output ranges:

- Boilers for oil or gas up to 116 MW heat or 120 t/h steam
- Solar thermal systems
- Photovoltaics
- Heat pumps up to 2 MW
- Wood combustion technology up to 50 MW
- Combined heat and power generation up to 30 MW_{el}
- Biogas production plants from 18 kW_{el} to 20 MW_{gas}
- Biogas upgrading plants up to 3000 m³/h
- Air conditioning technology
- Heating system components
- Services

Viessmann Group

VIESSMANN

KWT

KOB

MAWERA

ESS

HKB

BIOFERM

Schmack

Carbotech



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Online

Register online for engineer service requests and warranties

www.viessmann.co.uk



Detached houses



Apartment buildings



Commerce/industry



Local heating networks



Oil low temperature and condensing technology
13 - 20 000 kW



Low energy house
Bad Füssing, Germany



Housing estate 'ZiWei
Garden' Xi'an, China



Ameco A380 Hangar,
Beijing, China



European Parliament,
Strasbourg, France



Gas low temperature and condensing technology
4 - 20 000 kW



Windsor Castle,
Windsor, England



Housing estate
'Wohnoase Regensburg',
Germany



National Space Centre,
Leicester, England



Kings Cross redevelopment,
London, England



Solar thermal and photovoltaics



Marris Barn,
Lincolnshire, England



Hafencity Hamburg,
Germany



The Green Building
Manchester, England



The Palm Jumeirah, Dubai
United Arab Emirates



Wood combustion technology,
CHP and biogas production
4 - 13 000 kW



Detached house
Wiesloch, Germany



Langorai Hotel Calvalse,
Italy



Congress Centre
Brunstad, Norway



Yarn Street,
Leeds, England



Heat pumps for brine, water and air
1.5 - 2 000 kW



Domestic house
West Wales



Edgecote House
Northamptonshire,
England



Aston Martin Factory
Gaydon, England



Police Headquarters
Manchester, England

Vitodens technical specification

Vitodens 100-W								
Appliance		System				Combination		
Model	Unit	19	26	30	35	26	30	35
Rated CH output								
At Tf/Tr 50/30 °C (condensing)	kW	7.4 - 19	7.4 - 26.0	8.8 - 30.0	8.8 - 35.0	7.4 - 26.0	8.8 - 30.0	8.8 - 35.0
At Tf/Tr 80/60 °C (non-condensing)	kW	6.7 - 17.3	6.7 - 23.7	8.0 - 26.6	8.0 - 31.9	6.7 - 23.7	8.0 - 26.6	8.0 - 35.0
Rated central heating input (net)	kW	6.9 - 17.8	6.9 - 24.3	8.2 - 27.9	8.2 - 32.7	6.9 - 24.3	8.2 - 27.9	8.2 - 32.7
Rated central heating input (gross)	kW	7.7 - 19.8	7.7 - 27.0	9.1 - 30.9	9.1 - 36.4	7.7 - 27.0	9.1 - 30.9	9.1 - 36.4
Domestic hot water output range	kW	n/a	n/a	n/a	n/a	6.7 - 29.3	8.0 - 30.0	8.0 - 35.0
Max. natural gas rate (CH mode)	m ³ /h	1.9	2.6	3	3.5	2.6	3	3.5
Max. LPG	kg/H	1.4	1.9	2.2	2.6	1.9	2.2	2.6
Gas supply pressure								
Natural gas		20	20	20	20	20	20	20
LPG		37	37	37	37	37	37	37
Max permissible gas supply pressure								
Natural gas		25	25	25	25	25	25	25
LPG		45	45	45	45	45	45	45
Efficiency/Emissions								
Full load 100%	%	88.2	88.3	88.3	88.2	88.3	88.3	88.2
Part load 30%	%	97.9	97.9	97.5	98.5	97.9	97.5	98.5
Seasonal efficiency (SEDBUK)	%	90.3	90.3	90.4	90.3	90.2	90.3	90.2
SEDBUK rating		A	A	A	A	A	A	A
NOx classification	class	5 (<39 mg/kWh)						
DHW/CH								
DHW performance @ 35°C temp. rise	l/min	n/a	n/a	n/a	n/a	10	12	14
DHW temp. range	°C	n/a	n/a	n/a	n/a	30-60	30-60	30-60
Max. mains water inlet pressure	bar	n/a	n/a	n/a	n/a	10	10	10
Min. mains water inlet pressure for max. DHW heat output	bar	n/a	n/a	n/a	n/a	0.5	0.5	0.5
Min. mains water inlet pressure for operation	bar	n/a	n/a	n/a	n/a	0.5	0.5	0.5
Min. DHW flow rate for operation	l/min	n/a	n/a	n/a	n/a	0.5	0.5	0.5
Min. CH system pressure - cold	bar	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Max. CH system pressure - hot	bar	3	3	3	3	3	3	3
Cylinder Capacity	l	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CH flow temp. range	°C	30-80	30-80	30-80	30-80	30-80	30-80	30-80
General specification								
Integral expansion vessel capacity	ltr	8	8	8	8	8	8	8
Integral expansion vessel pre-charge pressure	bar	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Total water capacity	ltr	2.8	2.8	3.4	3.4	2.8	3.4	3.4
Lift weight	kg	35	36	37	37	36	38	38
Total weight (including packaging)	kg	37	38	39	39	38	40	40
Electricity supply		230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ
Internal fuse	A	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Max power consumption	W	102	107	106	154	119	134	154
Water protect rating		IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D
Flue temp. @ 50/30 - max. CH output	°C	45	45	45	45	45	45	45
Flue temp. @ 50/30 - min. CH output	°C	35	35	35	35	35	35	35
Flue temp. @ 80/60 - max CH output	°C	68	68	68	69	68	68	70
Flue products mass flow rate - NG - max. CH output	kg/h	30.1	41.1	49	56.9	41.1	49	56.9
Flue products mass flow rate - NG - min CH output	kg/h	14.6	14.6	17.6	17.6	14.6	17.6	17.6
Flue products mass flow rate - LPG - max CH output	kg/h	34	46.4	54	62	46.4	54	62
Flue products mass flow rate - LPG - min CH output	kg/h	15.9	15.9	19.4	19.4	15.9	19.4	19.4
Max. gas pressure NG	mbar	20.25	20.25	20.25	20.25	20.25	20.25	20.25
Gas Council number		41-819-26	41-819-27	41-819-28	41-819-29	47-819-20	47-819-21	47-819-22
Product ID		CE-0085 BT0029						
Dimensions/Connections								
Inner flue duct diameter	mm	60	60	60	60	60	60	60
Outer flue duct diameter	mm	100	100	100	100	100	100	100
Boiler dimensions (height x width x depth)	mm	700 x 400 x 350						
DHW outlet and mains cold inlet	mm	n/a	n/a	n/a	n/a	15	15	15
CH flow and return	mm	22	22	22	22	22	22	22
Condensate	mm	22	22	22	22	22	22	22
Gas	mm	22	22	22	22	22	22	22
PRV outlet	mm	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. horizontal flue length	m	19	13.5	13.5	17	13.5	13.5	17
Max. vertical flue length	m	19	13.5	13.5	17	13.5	13.5	17



Vitodens 100-W					Vitodens 100-W P25/P29		
Open vent					Combination		
13	16	19	26	35	25	29	
7.9 - 13	7.9 - 16	7.9 - 19	7.9 - 26	11.0 - 35.0	6.5 - 21.0	6.5 - 25	
7.2 - 11.9	7.2 - 14.6	7.2 - 17.3	7.2 - 23.7	10.0 - 31.9	5.9 - 19.1	5.9 - 22.8	
7.4 - 12.2	7.4 - 15	7.4 - 17.8	7.4 - 24.3	10.3 - 32.7	6.1 - 19.6	6.1 - 23.4	
8.2 - 13.5	8.2 - 16.5	8.2 - 19.8	8.4 - 26.9	8.2 - 35.9	7.7 - 27	9.1 - 30.9	
n/a	n/a	n/a	n/a	n/a	5.9 - 25	5.9 - 29	
1.3	1.6	1.9	2.6	3.5	2.1	2.5	
0.9	1.1	1.4	1.9	2.6	1.5	1.8	
20	20	20	20	20	20	20	
37	37	37	37	37	37	37	
25	25	25	25	25	25	25	
45	45	45	45	45	45	45	
86.7	86.7	86.7	86.8	86.8	88.2	88.3	
95.4	95.5	95.4	95.8	95.9	97.7	97.7	
90.5	90.3	91.9	90.3	90.4	90.2	90.2	
A	A	A	A	A	A	A	
5 (<39 mg/kWh)							
n/a	n/a	n/a	n/a	n/a	10.2	11.3	
n/a	n/a	n/a	n/a	n/a	30-60	30-60	
n/a	n/a	n/a	n/a	n/a	10	10	
n/a	n/a	n/a	n/a	n/a	1	1	
n/a	n/a	n/a	n/a	n/a	0.5	0.5	
n/a	n/a	n/a	n/a	n/a	1	1	
n/a	n/a	n/a	n/a	n/a	0.5	0.5	
n/a	n/a	n/a	n/a	n/a	3	3	
n/a	n/a	n/a	n/a	n/a	n/a	n/a	
30-75	30-75	30-75	30-75	30-75	30-80	30-80	
n/a	n/a	n/a	n/a	n/a	8	8	
n/a	n/a	n/a	n/a	n/a	0.75	0.75	
3.1	3.1	3.1	3.1	3.1	2.8	3.4	
25	25	25	25	25	36	36	
30	30	30	30	30	38	40	
230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	
2.5	2.5	2.5	2.5	2.5	2.5	2.5	
45	50	55	60	65	97	97	
IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	
45	45	45	45	45	45	45	
35	35	35	35	35	35	35	
68	68	68	69	69	68	68	
n/a	n/a	n/a	n/a	n/a	30.1	41.1	
n/a	n/a	n/a	n/a	n/a	14.6	14.6	
n/a	n/a	n/a	n/a	n/a	34	46.4	
n/a	n/a	n/a	n/a	n/a	15.9	15.9	
20-25	20-25	20-25	20-25	20-25	25	25	
41-819-21	41-819-22	41-819-23	41-819-24	41-819-25	41-819-30	41-819-31	
CE-0085 BT0029							
60	60	60	60	60	60	60	
100	100	100	100	100	100	100	
600 x 375 x 285				600 x 375 x 340		700 X 400 X350	
n/a	n/a	n/a	n/a	n/a	15	15	
n/a	n/a	n/a	n/a	n/a	22	22	
22	22	22	22	22	22	22	
22	22	22	22	22	2.2	2.2	
15	15	15	15	15	n/a	n/a	
8	8	8	8	8	13.5	17	
10	10	10	10	10	13.5	17	

Vitodens technical specification

Vitodens 200-W								
Appliance		System				Combination		
Model	Unit	19	26	30	35	26	30	35
Rated CH output								
At Tf/Tr 50/30 °C (condensing)	kW	3.2 - 19	5.2 - 26	5.2 - 35	5.2 - 35	5.2 - 26	5.2 - 30	5.2 - 35
At Tf/Tr 80/60 °C (non-condensing)	kW	2.9 - 17.5	4.7 - 24.1	4.7 - 27.8	7.9 - 32.2	4.7 - 24.1	7.9 - 27.8	4.7 - 32.2
Rated central heating input (net)	kW	3.1 - 17.9	4.9 - 24.7	4.9 - 28.5	4.9 - 33	4.9 - 24.7	4.9 - 28.5	4.9 - 33
Rated central heating input (gross)	kW	3.4 - 19.9	5.4 - 27.4	5.4 - 31.1	5.4 - 36.6	5.4 - 27.4	5.4 - 31.1	5.4 - 36.6
Domestic hot water output range	kW	n/a	n/a	n/a	n/a	4.7 - 29.7	4.7 - 30.5	4.7 - 34
Max. natural gas rate (CH mode)	m ³ /h	1.89	2.61	3.01	3.49	2.61	3.01	3.49
Max. LPG	kg/H	1.4	1.93	2.22	2.57	1.4	2.43	2.85
Gas supply pressure								
Natural gas		20	20	20	20	20	20	20
LPG		37	37	37	37	37	37	37
Max permissible gas supply pressure								
Natural gas		25	25	25	25	25	25	25
LPG		45	45	45	45	45	45	45
Efficiency/Emissions								
Full load 100%	%	88.9	89	88.6	88.6	88.9	89.1	88.7
Part load 30%	%	97.9	97.8	97.8	97.8	97.9	97.8	97.8
Seasonal efficiency (SEDBUK)	%	90.6	90.6	90.7	90.4	90.6	90.7	90.4
SEDBUK rating		A	A	A	A	A	A	A
NOx classification	class	5 (<39 mg/kWh)						
DHW/CH								
DHW performance @ 35°C temp. rise	l/min	n/a	n/a	n/a	n/a	10.3	12.3	14.3
DHW temp. range	°C	n/a	n/a	n/a	n/a	30-60	30-60	30-60
Max. mains water inlet pressure	bar	n/a	n/a	n/a	n/a	10	10	10
Min. mains water inlet pressure for max. DHW heat output	bar	n/a	n/a	n/a	n/a	1	1	1
Min. mains water inlet pressure for operation	bar	n/a	n/a	n/a	n/a	0.3	0.3	0.3
Min. DHW flow rate for operation	l/min	n/a	n/a	n/a	n/a	3	3	3
Min. CH system pressure - cold	bar	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Max. CH system pressure - hot	bar	3	3	3	3	3	3	3
Cylinder Capacity	l	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CH flow temp. range	°C	30-75	30-75	30-75	30-75	30-75	30-75	30-75
General specification								
Integral expansion vessel capacity	ltr	10	10	10	10	10	10	10
Integral expansion vessel pre-charge pressure	bar	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Total water capacity	ltr	7.2	7.8	8.2	8.2	7.8	8.2	8.2
Lift weight	kg	43	45	47	47	46	48	48
Total weight (including packaging)	kg	48	50	52	52	51	53	53
Electricity supply		230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ
Internal fuse	A	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Max power consumption	W	65	103	106	119	114	116	126
Water protect rating		IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D
Flue temp. @ 50/30 - max. CH output	°C	45	45	45	45	45	45	45
Flue temp. @ 50/30 - min. CH output	°C	35	35	35	35	35	35	35
Flue temp. @ 80/60 - max CH output	°C	68	70	70	70	70	70	70
Flue products mass flow rate - NG - max. CH output	kg/h	33.3	47.3	54.2	63.2	47.3	54.2	63.2
Flue products mass flow rate - NG - min CH output	kg/h	8.4	11.8	15.7	15.7	11.8	15.7	15.7
Flue products mass flow rate - LPG - max CH output	kg/h	32.5	46.4	58.5	68.2	46.4	58.5	68.2
Flue products mass flow rate - LPG - min CH output	kg/h	8.2	11.5	15.4	15.4	11.5	15.4	15.4
Max. gas pressure NG	mbar	20-25	20-25	20-25	20-25	20-25	20-25	20-25
Gas Council number		41-819-32	41-819-33	41-819-34	41-819-35	47-819-28	47-819-29	47-819-30
Product ID		CE-0085 CN0050						
Dimensions/Connections								
Inner flue duct diameter	mm	60	60	60	60	60	60	60
Outer flue duct diameter	mm	100	100	100	100	100	100	100
Boiler dimensions (height x width x depth)	mm	850 x 450 x 360						
DHW outlet and mains cold inlet	mm	n/a	n/a	n/a	n/a	15	15	15
CH flow and return	mm	22	22	22	22	22	22	22
Condensate	mm	22	22	22	22	22	22	22
Gas	mm	20-24	20-24	20-24	20-24	20-24	20-24	20-24
PRV outlet	mm	15	15	15	15	15	15	15
Max. horizontal flue length	m	10	10	10	10	10	10	10
Max. vertical flue length	m	10	10	10	10	10	10	10

Vitodens 111-W		Vitodens 222-F			Vitodens 242-F		
DHW storage		Solar DHW storage					
26	35	19	26	35	19	26	
6.5 - 26.0	8.8 - 35	3.2 - 19	5.2 - 26	5.2 - 35	3.2 - 19	5.2 - 26	
5.9 - 23.7	8.0 - 31.9	2.9 - 17.5	4.7 - 24.1	4.7 - 31.7	2.9 - 17.5	4.7 - 24.1	
6.1 - 30.5	8.2 - 36.5	3.1 - 17.9	4.9 - 24.7	4.9 - 28.5	3.1 - 17.9	4.9 - 24.7	
7.2 - 27.0	9.1 - 30.9	3.4 - 19.9	5.4 - 27.4	5.4 - 36.6	3.4 - 19.9	5.4 - 27.4	
5.9 - 29.3	8.0 - 35.0	4.3 - 17.2	5.9 - 29.2	7.9 - 31.7	4.3 - 17.2	5.9 - 29.3	
3.23	3.86	1.89	3.23	3.86	1.89	3.23	
2.39	2.86	1.4	2.39	2.85	1.4	2.39	
20	20	20	20	20	20	20	
37	37	37	37	37	37	37	
25	25	25	25	25	25	25	
45	45	45	45	45	45	45	
88.2	88.3	88	88.9	88.7	88	88.9	
97.8	98.5	97.7	97.9	97.8	97.7	97.9	
90	90.6	90.5	91	90.8	90.5	91	
A	A	A	A	A	A	A	
5 (<39 mg/kWh)							
18	18	18	20	20	16.4	19	
30-60	30-60	30-60	30-60	30-60	30-60	30-60	
10	10	10	10	10	10	10	
1	1	>0.1	>0.1	>0.1	0.1	0.1	
0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	
0.5	0.5	0.1	0.1	0.1	0.1	0.1	
0.5	0.5	0.5	0.5	0.5	0.5	0.5	
3	3	3	3	3	3	3	
46	46	100	100	130	170	170	
30-80	30-80	30-75	30-75	30-75	30-75	30-75	
8	8	12	12	12	12	12	
0.75	0.75	0.75	0.75	0.75	0.75	0.75	
2.8	3.4				150	150	
62	64	129	132	141	161	165	
67	69	134	136	147	166	170	
230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	230v 50 HZ	
2.5	2.5				2.5	2.5	
160	160	150	150	160	210	210	
IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	
45	45	45	45	45	45	45	
35	35	35	35	35	35	35	
65	68	68	68	70	68	68	
47.3	63.2	33.3	47.3	70	33.3	47.3	
11.8	15.7	8.4	11.8	15.7	8.4	11.8	
46.4	68.2	32.5	46.4	68.2	32.5	46.4	
11.5	15.4	7	7	7	8.2	11.5	
25	25	20-25	20-25	20-25	20-25	20-25	
47-819-24	47-819-25	47-819-15	47-819-16	47-819-17	47-819-18	47-819-19	
CE - 0085BT0029		CE - 0085BU0051					
60	60	60	60	60	60	60	
100	100	100	100	100	100	100	
900 X 600 X 480		1425 x 600 x 595		1625 x 600 x 595	1875 x 600 x 595		
15	15	15	15	15	15	15	
22	22	22	22	22	22	22	
22	22	22	22	22	22	22	
2.2	2.2	20-24	20-24	20-24	20-24	20-24	
n/a	n/a	n/a	n/a	n/a	n/a	n/a	
13.5	17	10	10	10	10	10	
13.5	17	10	10	10	10	10	



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Subject to technical modifications.