

GB, IE



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1 Safety

1.1 Action-related warnings Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning signs and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The product is intended as a heat generator for closed heat-

ing installations and for hot water generation.

Intended use includes the following:

- observance of the operating instructions included for the product and any other system components
- compliance with all inspection and maintenance conditions listed in the instructions.

This product can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the product in a safe way and understand the hazards involved. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

Any other use that is not specified in these instructions, or use beyond that specified in this document shall be considered improper use. Any direct commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1 Safety



1.3 General safety information

1.3.1 Installation by competent persons only

The installation, inspection, maintenance and repair of the product, as well as the gas ratio settings, must only be carried out by a competent person.

1.3.2 Danger caused by improper operation

Improper operation may present a danger to you and others, and cause material damage.

- Carefully read the enclosed instructions and all other applicable documents, particularly the "Safety" section and the warnings.
- Only carry out the activities for which instructions are provided in these operating instructions.

1.3.3 Risk of death from escaping gas

What to do if you smell gas in the building:

- Avoid rooms that smell of gas.
- ▶ If possible, open doors and windows fully and ensure adequate ventilation.
- ▶ Do not use naked flames (e.g. lighters, matches).
- ▶ Do not smoke.

- ▶ Do not use any electrical switches, mains plugs, doorbells, telephones or other communication systems in the building.
- If it is safe to do so, close the emergency control valve or the main isolator.
- ► If possible, close the gas isolator cock on the product.
- Warn other occupants in the building by yelling or banging on doors or walls.
- Leave the building immediately and ensure that others do not enter the building.
- Notify the gas supply company or the Emergency
 Service Provider
 +44 (0) 800 111999 by telephone once you are outside of the building.

1.3.4 Risk of death due to a blocked or leaking flue gas pipe

What to do if you smell flue gas in the property:

- Open all accessible doors and windows fully to provide ventilation.
- ► Switch off the product.
- ▶ Inform a competent person.





1.3.5 Risk of death due to explosive and flammable materials

▶ Do not use or store explosive or flammable materials (e.g. petrol, paper, paint) in the installation room of the product.

1.3.6 Risk of death due to changes to the product or the product environment

- Never remove, bridge or block the safety devices.
- ▶ Do not tamper with any of the safety devices.
- ► Do not damage or remove any seals on components.
- ▶ Do not make any changes:
 - The product itself
 - to the gas, air, water and electricity supplies
 - to the entire flue gas installation
 - to the entire condensate drain system
 - to the expansion relief valve
 - to the drain pipework
 - to constructional conditions that may affect the operational reliability of the product

1.3.7 Risk of corrosion damage due to unsuitable combustion and room air

Sprays, solvents, chlorinated cleaning agents, paint, adhesives, ammonia compounds, dust or similar substances may lead to corrosion on the product and in the air/flue pipe.

- Ensure that the supply of combustion air is always free of fluorine, chlorine, sulphur, dust, etc.
- Ensure that no chemical substances are stored at the installation site.

1.3.8 Risk of material damage caused by frost

- ► Ensure that the heating installation always remains in operation during freezing conditions and that all rooms are sufficiently heated.
- If you cannot ensure the operation, have a competent person drain the heating installation.



1 Safety



- 1.3.9 Risk of injury and material damage due to maintenance and repairs carried out incorrectly or not carried out at all
- ► Never attempt to carry out maintenance work or repairs on your product yourself.
- ► Faults and damage should be immediately rectified by a competent person.
- ▶ Adhere to the maintenance intervals specified.

2 Notes on the documentation

2 Notes on the documentation

2.1 Observing other applicable documents

 You must observe all operating instructions enclosed with the system components.

2.2 Storing documents

► Keep this manual and all other applicable documents safe for future use.

2.3 Applicability of the instructions

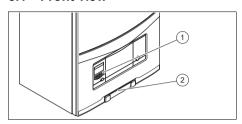
These instructions apply only to:

Product article number

	Article number	Gas Coun- cil Number
VU 126/6-3 OV (H-GB)	0010020400	41-694-08
VU 156/6-3 OV (H-GB)	0010020401	41-694-09
VU 186/6-3 OV (H-GB)	0010020402	41-694-10
VU 256/6-3 OV (H-GB)	0010020403	41-694-11
VU 306/6-3 OV (H-GB)	0010020404	41-694-12
VU 356/6-3 OV (H-GB)	0010020405	41-694-19

3 Product description

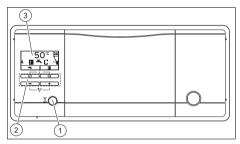
3.1 Front view



2

- 1 Control elements
- Plate with serial number on the rear

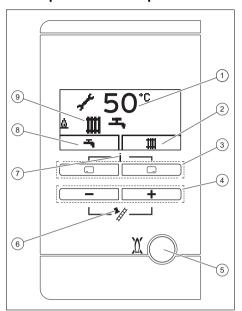
3.2 Control elements



- 1 Fault clearance key 🗓
- 2 Operating buttons
- 3 Display

Product description 3

3.2.1 Operator control panel



- Current heating flow temperature, operating mode, fault code or additional information
- 2 Current assignment of the righthand selection button
- 3 Left- and righthand selection buttons 🖵 🖵
- 4 and the but-

- 5 Fault clearance kev
 - Maximum output (only used for Austria, Germany and Switzerland) Access to the menu for additional information
- 8 Current assignment of the lefthand selection button
- 9 Active operating status

Sym- bol	Meaning	Explanation
m	Heating mode active	Permanently on: Heating mode heat requirement Flashing: Burner on in heating mode
P	Maintenance required	Information on the maintenance message in the "Live Monitor"
N	Summer mode active Heating mode is switched off	
	Burner anti-cyc- ling time is active	To avoid the need for frequent switching on and off (increases the product's working life).
(I) F.XX	Fault in the product	Fault in the product. Appears instead of the basic display.

3.4 Information on the identification plate

The identification plate is mounted on the underside of the product in the factory.

The identification plate keeps record of the country in which the product is to be installed.

3.5 Serial number

The serial number is located on a plastic plate at the bottom of the front casing.

3.3 Displayed symbols

Sym- bol	Meaning	Explanation
<u>(ii)</u>	Burner operating correctly	Burner on

4 Operation

3.6 CE label



The CE label shows that the products comply with the basic requirements of the applicable directives as stated on the identification plate.

The declaration of conformity can be viewed at the manufacturer's site.

3.7 Benchmark

Vaillant is a licensed member of the Benchmark Scheme.

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by a competent person approved at the time by the Health and Safety Executive and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building

demonstrate compliance with Building Regulations and should be provided to the customer for future reference.

Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hotwater Industry Council who manage and promote the Scheme. Benchmark is managed and promoted by the Heating and Hotwater Industry Council.



For more information visit www.centralheating.co.uk

4 Operation

4.1 Operating concept

Op- erator control element	Function
	 Setting the hot water temperature
	Cancelling the activation of an operating mode
	Cancelling a change to a set value
	Going one selection level higher
	 Setting the heating flow tem- perature
	Reading the system pressure
	 Activating the comfort mode
	 Activating the operating mode
	 Confirm setting
	 Going one selection level lower
-+-	 Calling up the menu
at the	
same	
time	
■ or ⊕	 Reducing or increasing the set value
	 Scrolling through menu entries

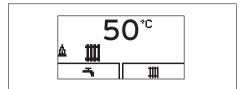
The current function of the \square and \square buttons is shown in the display.

Adjustable values are always displayed as flashing.

You must always confirm a change to a value. Only then is the new setting saved.

You can press \square to cancel a procedure at any time.

4.2 Basic display



The basic display shows the current condition of the product. If you press a selection button, the activated function is displayed in the display.

The functions that are available depend on whether a controller is connected to the product.

You can switch back to the basic display by:

- Pressing
 to exit the selection levels
- Not pressing any button for longer than 15 minutes.

If there is an error message present, the basic displays switches to the error message.

4.3 Adjustment and display levels

The product has two adjustment and display levels.

The end user level contains information and setting options that you require as the end user

The installer level is reserved for the competent person. It is protected by a code. Only competent persons may change any settings in the installer level.

4.4 Cabinet-type casing

Enclosing the product in cabinet-type casing requires compliance with the applicable design instructions.

If you require cabinet-type casing for your product, consult a heating specialist company. Never, under any circumstances, enclose the product yourself.

4.5 Opening the isolator devices

- Ask the competent person who installed the product to explain to you where these isolator devices are located and how to handle them.
- Open the gas isolator cock fully.
- 3. Open the service valves in the heating installation's flow and return.

Applicability: Product with connected domestic hot water cylinder

Open the cold water stop valve.

4.6 Starting up the product

► Only start up the product once the casing has been completely closed.

4.7 Switching on the product

Switch on the product via the main switch installed on-site.

4.8 Setting the heating flow temperature

- Press □ (■).
 - The target value of the heating flow temperature appears on the display.



Note

The competent person may have adjusted the maximum possible temperature.

Conditions: No controller connected

- ► Use ☐ or ☐ to set the required heating flow temperature.
- ► Confirm by pressing □.

4 Operation

Conditions: Controller connected

- Set the maximum possible heating flow temperature on the product.
- ► Confirm by pressing □.
- Set the required heating flow temperature on the controller (→ Controller operating instructions).

4.9 Setting the hot water temperature



Warning. Risk of being scalded by hot water.

To protect against Legionella, the hot water can be heated up to above 60 °C at pre-defined times.

- Have a competent person inform you about the measures that should be taken to protect against Legionella in your system.
- 1. Press □ (♣).
 - The set hot water temperature flashes in the display.

Conditions: No controller connected

- ► Confirm by pressing □.

Conditions: Controller connected

- ► Use
 to set the maximum possible hot water temperature on the product.
- ► Confirm by pressing □.
- Set the required hot water temperature on the controller (→ Controller operating instructions).

4.10 Switching off the product's functions

4.10.1 Switching off heating mode (Summer mode)

- 1. To switch off heating mode without switching off the hot water generation, press (II).
- 2. Use the button to set the heating flow temperature to **Off**.
- 3. Confirm by pressing □.
 - Heating mode is switched off.
 - The
 Symbol appears in the display.

4.11 Protecting the heating installation against frost

4.11.1 Frost protection function



Caution.

Risk of material damage due to frost.

The frost protection function cannot guarantee flow through the entire heating installation, which means that parts of the heating installation may freeze and therefore become damaged.

During a period of frost, ensure that the heating installation remains in operation and that all rooms are sufficiently heated, even when you are away.



Note

To keep the frost protection devices active, you should switch your product on and off using the controller, if one is provided.

Troubleshooting 5

If the heating flow temperature falls below 5 °C when the on/off button is on, the product comes into operation and heats the circulating water to approx. 30 °C on both the heating side and the hot water side (if available).

4.11.2 Draining the heating installation

When the unit is switched off for an extended period, frost protection can be guaranteed by completely draining the heating installation and the product.

▶ Consult a competent person about this.

4.12 Switching the product to standby mode

- Press the fault clearance key for less than three seconds.
 - The display shows OFF and goes out.
 - The product is now in standby mode.
 - The product's frost protection function is activated.
 - The main power supply is not interrupted. The product continues to be supplied with power.

5 Troubleshooting

5.1 Detecting and rectifying faults

If faults occur or fault messages are displayed (F.xx), proceed as set out in the table in the appendix.

Troubleshooting (→ Page 14)

► If the product is not functioning correctly, contact a competent person.

5.2 Calling up (Live monitor) status codes

- ▶ Press □ and □ at the same time.
 Status codes Overview (→ Page 14)
 - □ The current operating status (status code) is shown on the display.

6 Care and maintenance

6.1 Maintenance

An annual inspection of the product carried out by a competent person is a prerequisite for ensuring that the product is permanently ready and safe for operation, reliable, and has a long working life. After servicing, complete the relevant service interval record section of the benchmark checklist, located at the rear of the installation manual.

6.2 Caring for the product

Caution.

Risk of material damage caused by unsuitable cleaning agents.

- Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.
- Clean the casing with a damp cloth and a little solvent-free soap.

6.3 Reading maintenance messages

If the r symbol is shown in the display, the product requires maintenance work.

The product is not in fault mode but continues to operate.

- ► Consult a competent person about this.
- If the water pressure is flashing at the same time, simply add more heating water.

7 Decommissioning

6.4 Checking the condensate drain pipework and tundish

The condensate drain pipework and tundish must always be penetrable.

 Regularly check the condensate drain pipework and tundish for faults and, particularly, for blockages.

You must not be able to see or feel any obstructions in the condensate drain pipework and tundish.

If you notice a fault, have it rectified by a competent person.

7 Decommissioning

7.1 Temporarily decommissioning the product

Caution.

Risk of material damage due to frost.

The frost protection and monitoring devices are only active while the unit is connected to the power mains and switched on via the on/off button, and when the gas isolator cock is open.

- Temporarily decommission the product only if no frost is expected.
- Temporarily decommission the product only if no frost is expected.
- Switch off the product via the main switch installed on-site.
- When decommissioning the product for a prolonged period (e.g. holiday), close the gas isolator cock and also, for combination products, the cold water stop valve.

7.2 Permanently decommissioning the product

► Have a competent person permanently decommission the product.

8 Recycling and disposal

The competent person who installed your product is responsible for the disposal of the packaging.

If the product is identified with this symbol:

- ► In this case, do not dispose of the product with the household waste.
- ► Instead, hand in the product to a collection centre for old electrical or electronic appliances.

If the product contains batteries that are marked with this symbol, these batteries may contain substances that are hazardous to human health and the environment.

► In this case, dispose of the batteries at a collection point for batteries.

9 Guarantee and customer service

9.1 Guarantee

For information on the manufacturer's guarantee, you can write to the contact address that is provided on the back page.

9.2 Customer service

To ensure regular servicing, it is strongly recommended that arrangements are made for a Maintenance Agreement. Please contact Vaillant Service Solutions for further details:

Telephone: 0330 100 3461

Appendix

A Status codes - Overview

Status codes that are not listed here can be viewed in the installation instructions.

Status code	Meaning			
Displays in heating mode				
S.00	Heating: No heat demand			
S.02	Heating mode: Pump pre-run			
S.03	Heating mode: Ignition			
S.04	Heating mode: Burner on			
S.06	Heating mode: Fan overrun			
S.07	Heating mode: Pump overrun			
S.08	Heating, remaining anti-cycling time xx mins			
Displays in	Displays in cylinder charging mode (product with hot water generation through external domestic hot water cylinder)			
S.20	Hot water requirement			
S.22	DHW mode: Pump pre-run			
S.24	DHW mode: Burner on			
Other displays				
S.31	No heat demand: Summer mode			
S.34	Heating mode: Frost protection			
S.46	Comfort protection mode, flame loss at minimum load			

B Troubleshooting

Fault	Cause	Measure
Product does not start up: - No hot water	The gas isolator cock installed on-site and/or the gas isolator cock on the product is closed.	Open both gas isolator cocks.
Heating remains cold	The power supply in the building is disconnected.	Check the fuse in the building. The product switches on automatically when the power is restored.
	The product is switched off.	Switch on the product.
	The heating flow temperature is set too low or to the Heating off position, and/or the hot water temperature is set too low.	Set the heating flow and hot water temperature.
	There is air in the heating installation.	Have a competent person purge the heating installation.

Appendix

Fault	Cause	Measure
Product does not start up: - No hot water - Heating remains cold	After three unsuccessful ignition attempts, the product switches to fault mode (fault message: F.28).	Press the fault clearance key for one second. The product makes another attempt to ignite the flame. If you have been unable to eliminate the ignition fault after three fault clearance attempts, consult a competent person.
	There is a fault in the flue gas route.	Have a competent person rectify the fault.
Heating does not start.	The external controller is not set correctly.	Set the external controller correctly (→ Controller operating instructions).



0020230536_02 05.08.2019

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