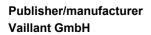
Operating instructions



ecoFIT sustain

415 - 430

GB, IE





Contents

Contents

1	Safety	3
1.1	Action-related warnings	3
1.2	Intended use	3
2	Notes on the documentation	4
2.1	Observing other applicable documents	4
2.2	Storing documents	4
2.3	Validity of the instructions	4
3	Product description	4
3.1	Front view	4
3.2	Control elements	4
3.3	Displayed symbols	4
3.4	Information on the identification plate	5
3.5	Serial number	5
3.6	CE label	5
3.7	Benchmark	5
4	Operation	5
4.1	Operating concept	5
4.2	Basic display	5
4.3	Adjustment and display levels	6
4.4	Cabinet-type casing	6
4.5	Opening the isolator devices	6
4.6	Starting up the product	6
4.7	Switching on the product	6
4.8	Setting the heating flow temperature	6
4.9	Setting the hot water temperature	6
4.10	Switching off the product's functions	6
4.11	Protecting the heating installation against frost	6
4.12	Switching the product to standby mode	7
5	Troubleshooting	7
5.1	Detecting and rectifying faults	7
5.2	Calling up (Live monitor) status codes	
6	Care and maintenance	7
6.1	Maintenance	7
6.2	Caring for the product	7
6.3	Reading maintenance messages	7
6.4	Checking the condensate discharge pipe and tundish	7
7	Decommissioning	7
7.1	Temporarily decommissioning the product	7
7.2	Permanently decommissioning the product	8
8	Recycling and disposal	8
9	Guarantee and customer service	8
9.1	Guarantee	8
9.2	Customer service	8
Appen	dix	. 9
Α	Status codes – Overview	9
В	Troubleshooting	9



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 heating 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 use in industrial or commercial processes is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

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 Validity of the instructions

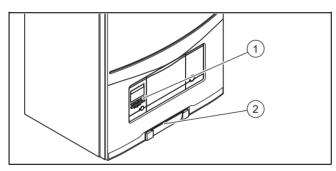
These instructions apply only to:

Product article number

	Article number	Gas Council Number
VU 156/6-3 OV (H- GB) ecoFIT sustain 415	0010025274	41-694-33
VU 186/6-3 OV (H- GB) ecoFIT sustain 418	0010025275	41-694-34
VU 306/6-3 OV (H- GB) ecoFIT sustain 430	0010025276	41-694-35

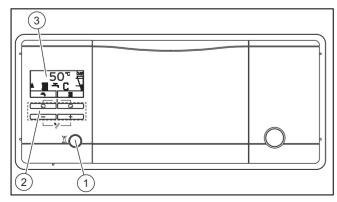
3 Product description

3.1 Front view



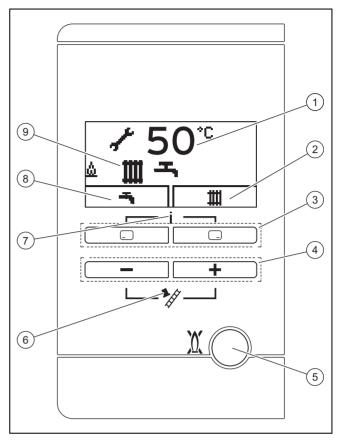
- 1 Control elements
- Plate with serial number on the rear

3.2 Control elements



- 1 Reset button
- 3 Display
- 2 Operating buttons

3.2.1 Operator control panel



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

5

6

- Maximum output (only used for Austria, Germany and Switzerland)
- 7 Access to the menu for additional information
- Current assignment of the left-hand selection button
- Active operating status

3.3 Displayed symbols

Symbol	Meaning	Explanation
Cymbol	meaning	Explanation
<u> </u>	Burner operating cor- rectly	Burner on
m	Heating mode active	 Permanently on: Heating mode heat requirement Flashing: Burner on in heating mode
1	Maintenance required	Information on the maintenance message in the "Live Monitor"
7	Summer mode active	
-	Heating mode is switched off	
	Burner anti-cycling time is active	To avoid the need for frequent switching on and off (increases the product's working life).
①	Fault in the product	Fault in the product. Appears instead of the
F.XX		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.

3.6 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 which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance.

Benchmark is managed and promoted by the Heating and Hotwater Industry Council. For more information visit www.benchmark.org.uk.

▶ Please ensure that the installer has fully completed the Benchmark Checklist on the inside back pages of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).

All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.

This product should be serviced regularly to optimise its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service.

The Benchmark Checklist will be required in the event of any warranty.

4 Operation

4.1 Operating concept

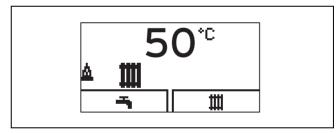
Operator control element	Function
	 Setting the hot water temperature
	Cancelling the activation of an operating mode
	 Cancelling a change to a set value
	 Going one selection level higher
	Setting the heating flow temperature
	 Reading the system pressure
	 Activating the comfort mode
	 Activating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

The current function of the and 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 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.
- 2. Open the gas isolator cock fully.
- 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 onsite.

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 ...

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



Danger! Risk of death from legionella.

Legionella multiply at temperatures below 60 °C.

- ► Have a competent person inform you about the measures that should be taken to protect against Legionella in your installation.
- ▶ Do not set any water temperatures below 60 °C without consulting the competent person first.
- 1. Press ().
 - The set hot water temperature flashes in the display.

Conditions: No controller connected

- ► Change the hot water temperature by pressing ☐ or ☐
- 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).
 - The value of the heating flow temperature appears in the display.
- 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.

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 reset button for less than three seconds.
 - \triangleleft 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 9)
- ► 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 9)
 - 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.

6.2 Caring for the product

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

6.3 Reading maintenance messages

If the sp 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.

6.4 Checking the condensate discharge pipe and tundish

The condensate discharge pipe and tundish must always be penetrable.

 Regularly check the condensate discharge pipe and tundish for faults and, particularly, for blockages.

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

 If you notice a fault, have it eliminated 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 onsite.
- ► 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.

8 Recycling and disposal

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 labelled with this mark:

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

If the product contains batteries that are labelled with this mark, 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	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:	The gas isolator cock installed on-site and/or the gas isolator cock on the product is closed.	Open both gas isolator cocks.
No hot water 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.
	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).



0020277263_00 12.04.2018

Supplier

Vaillant Ltd.

© These instructions, or parts thereof, are protected by copyright and may be reproduced or distributed only with the manufacturer's written consent.

We reserve the right to make technical changes.