

For the operator

## Operating instructions



ecoFIT pure

412 - 435

GB, IE

**Publisher/manufacture**

**Vaillant GmbH**

Berghäuser Str. 40 ■ D-42859 Remscheid  
Tel. +49 21 91 18-0 ■ Fax +49 21 91 18-2810  
info@vaillant.de ■ www.vaillant.de



# Contents

<b>Contents</b>	<b>6</b>	<b>Care and maintenance</b> .....	<b>9</b>
<b>1 Safety</b> .....	<b>3</b>	6.1 Maintenance .....	9
1.1 Action-related warnings .....	3	6.2 Caring for the product .....	9
1.2 Intended use .....	3	6.3 Reading maintenance messages .....	9
<b>2 Notes on the documentation</b> .....	<b>4</b>	6.4 Checking the condensate drain pipework and tundish .....	10
2.1 Observing other applicable documents .....	4	<b>7 Decommissioning</b> .....	<b>10</b>
2.2 Storing documents .....	4	7.1 Temporarily decommissioning the product .....	10
2.3 Applicability of the instructions .....	4	7.2 Permanently decommissioning the product .....	10
<b>3 Product description</b> .....	<b>4</b>	<b>8 Recycling and disposal</b> .....	<b>10</b>
3.1 Front view .....	4	<b>9 Guarantee and customer service</b> .....	<b>10</b>
3.2 Control elements .....	4	9.1 Guarantee .....	10
3.3 Displayed symbols .....	5	9.2 Customer service .....	10
3.4 Information on the identification plate .....	5	<b>Appendix</b> .....	<b>11</b>
3.5 Serial number .....	5	<b>A Status codes – Overview</b> .....	<b>11</b>
3.6 CE label .....	6	<b>B Troubleshooting</b> .....	<b>11</b>
3.7 Benchmark .....	6		
<b>4 Operation</b> .....	<b>6</b>		
4.1 Operating concept .....	6		
4.2 Basic display .....	7		
4.3 Adjustment and display levels .....	7		
4.4 Cabinet-type casing .....	7		
4.5 Opening the isolator devices .....	7		
4.6 Starting up the product .....	7		
4.7 Switching on the product .....	7		
4.8 Setting the heating flow temperature .....	7		
4.9 Setting the hot water temperature .....	8		
4.10 Switching off the product's functions .....	8		
4.11 Protecting the heating installation against frost .....	8		
4.12 Switching the product to standby mode .....	9		
<b>5 Troubleshooting</b> .....	<b>9</b>		
5.1 Detecting and rectifying faults .....	9		
5.2 Calling up (Live monitor) status codes .....	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 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.

## 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

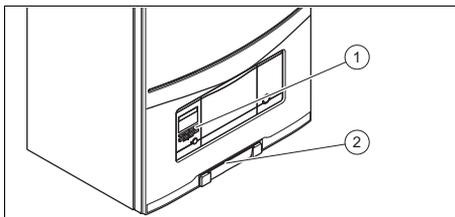
These instructions apply only to:

##### Product article number

	Article number	Gas Council 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

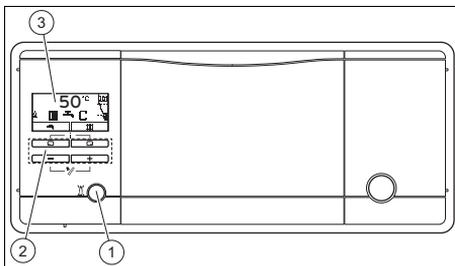
## 3 Product description

### 3.1 Front view



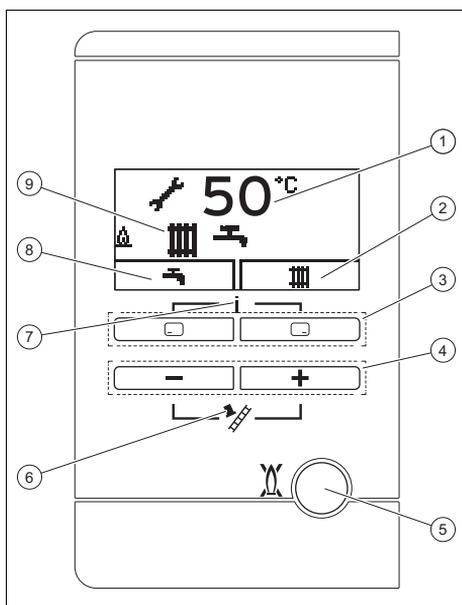
- 1 Control elements    2 Plate with serial number on the rear

### 3.2 Control elements



- 1 Fault clearance key     2 Operating buttons    3 Display

## 3.2.1 Operator control panel



- |  |   |
|--|---|
| <p>1 Current heating flow temperature, operating mode, fault code or additional information</p> <p>2 Current assignment of the right-hand selection button</p> <p>3 Left- and right-hand selection buttons  </p> <p>4  and  button</p> | <p>5 Fault clearance key</p> <p>6 Maximum output (only used for Austria, Germany and Switzerland)</p> <p>7 Access to the menu for additional information</p> <p>8 Current assignment of the left-hand selection button</p> <p>9 Active operating status</p> |
|--|---|

## 3.3 Displayed symbols

Symbol	Meaning	Explanation
	Burner operating correctly	Burner on

Symbol	Meaning	Explanation
	Heating mode active	<ul style="list-style-type: none"> <li>– Permanently on: Heating mode heat requirement</li> <li>– Flashing: Burner on in heating mode</li> </ul>
	Maintenance required	Information on the maintenance message in the "Live Monitor"
	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).
 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.

## 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 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](http://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

Op- er- ator control element	Function
	<ul style="list-style-type: none"> <li>- Setting the hot water temperature</li> <li>- Cancelling the activation of an operating mode</li> <li>- Cancelling a change to a set value</li> <li>- Going one selection level higher</li> </ul>
	<ul style="list-style-type: none"> <li>- Setting the heating flow temperature</li> <li>- Reading the system pressure</li> <li>- Activating the comfort mode</li> <li>- Activating the operating mode</li> <li>- Confirm setting</li> <li>- Going one selection level lower</li> </ul>
+ at the same time	<ul style="list-style-type: none"> <li>- Calling up the menu</li> </ul>
or	<ul style="list-style-type: none"> <li>- Reducing or increasing the set value</li> <li>- Scrolling through menu entries</li> </ul>

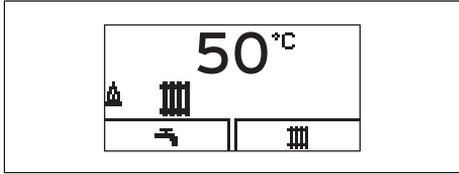
The current function of the and buttons is shown in the display.

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 display 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

1. 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.
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

1. 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

- ▶ 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  (  ).
  - ◁ The value of the heating flow temperature appears in the display.
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.

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 11)
- ▶ 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 11)
  - ◁ 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



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

### B Troubleshooting

Fault	Cause	Measure
Product does not start up: – No hot water – Heating remains cold	The gas isolator cock installed on-site and/or the gas isolator cock on the product is closed.	Open both gas isolator cocks.
	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 <b>Heating off</b> 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: <b>F.28</b> ).  There is a fault in the flue gas route.	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.  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\_01 ■ 10.10.2016

**supplier**

**Vaillant Ltd.**

Nottingham Road ■ Belper ■ Derbyshire ■ DE56 1JT

Telephone 0330 100 3461

info@vaillant.co.uk ■ www.vaillant.co.uk

© 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.