

## Operating instructions



### ecoTEC pure

VC 146/7-2 (E-DE)

VCW 206/7-2 (E-DE)

DE

**Publisher/manufacture**  
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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 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.

### 1.3.2 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, door-bells, telephones or other communication systems in the building.
- ▶ 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.
- ▶ Alert the police and fire brigade as soon as you are outside the building.
- ▶ Use a telephone outside the building to inform the emergency service department of the gas supply company.

### 1.3.3 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.

### 1.3.4 Risk of death due to explosive and flammable materials

- ▶ Do not use the product in storage rooms that contain explosive or flammable substances (such as petrol, paper or paint).



## 1.3.5 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

## 1.3.6 Risk of poisoning caused by insufficient supply of combustion air

**Conditions:** Open-flued operation

- ▶ Ensure that there is a sufficient supply of combustion air.



## 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.

## Notes on the documentation 2

### 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

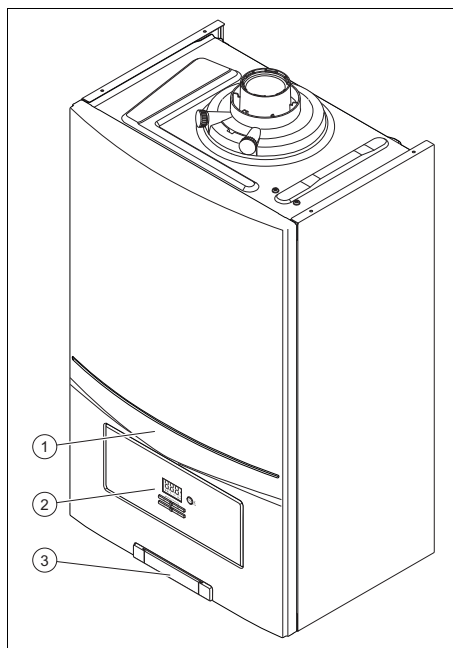
These instructions apply only to:

##### Product article number

|             |                    |            |
|-------------|--------------------|------------|
| ecoTEC pure | VC 146/7-2 (E-DE)  | 0010023439 |
|             | VCW 206/7-2 (E-DE) | 0010023440 |

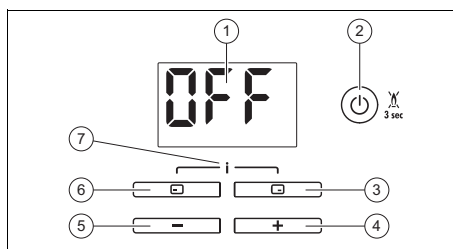
### 3 Product description

#### 3.1 Product design



- |                    |                                        |
|--------------------|----------------------------------------|
| 1 Product          | 3 Plate with serial number on the rear |
| 2 Control elements |                                        |

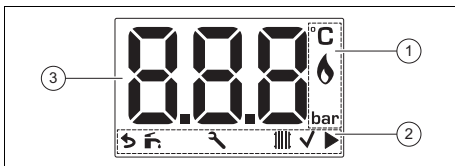
#### 3.2 Control elements



- |                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| 1 Display                        | 6 Left selection button                                         |
| 2 On/off button and reset button | 7 Access to the menu for additional information/installer level |
| 3 Right selection button         |                                                                 |
| 4 $\oplus$ button                |                                                                 |
| 5 $\ominus$ button               |                                                                 |

## 3 Product description

### 3.3 Description of the display



- |                                                                                                     |                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Operating information</p> <p>2 Operating mode, selecting and confirming the operating mode</p> | <p>3 Display showing the current heating flow temperature, the filling pressure in the heating installation, the operating mode or a fault code</p> |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

| Symbol | Meaning                                                                                                                                                                                    |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Burner operating correctly<br>– Burner on                                                                                                                                                  |
|        | Heating installation filling pressure<br>– Permanently on: Filling pressure in the permitted range<br>– Flashing: Filling pressure outside the permitted range, purging function activated |
|        | DHW mode<br>– Permanently on: Hot water activated<br>– Flashing: Burner on in draw-off mode                                                                                                |
|        | Heating mode<br>– Permanently on: Heating mode activated<br>– Flashing: Burner on in heating mode                                                                                          |
|        | Maintenance required<br>Information on maintenance messages in the event of faults                                                                                                         |
|        | Setting to be confirmed                                                                                                                                                                    |
|        | Navigating through various menus                                                                                                                                                           |

| Symbol           | Meaning                                                                                                                                                                                                                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F.XX / Err / Ser | Fault in the product<br>– Appears instead of the basic display.                                                                                                                                                                                   |
| S.XX             | Status code                                                                                                                                                                                                                                       |
| OFF              | – Heating mode is switched off (summer mode)<br>– Hot water handling mode is switched off (product with integrated hot water generation/product with connected domestic hot water cylinder)<br>– Appears when the product goes into standby mode. |

### 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.

| Information on the data plate | Meaning                                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condensing technology         | Efficiency class of the boiler in accordance with EC Directive 92/42/EEC                                                                                                                                                                                                                               |
| Serial number                 | For quality control purposes; 3rd and 4th digits = year of production<br>For quality control purposes; 5th and 6th digits = week of production<br>For identification purposes; 7th to 16th digits = product article number<br>For quality control purposes; 17th to 20th digits = place of manufacture |
| ... ecoTEC ...                | Product designation                                                                                                                                                                                                                                                                                    |
| Cat.                          | Approved gas category                                                                                                                                                                                                                                                                                  |
| Type: Xx3(x)                  | Permissible flue gas connections                                                                                                                                                                                                                                                                       |

| Information on the data plate                                                       | Meaning                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 2H / 2E / 3P / 2K...                                                                | Gas group and gas connection pressure as set at the factory       |
| Tmax                                                                                | Max. flow temperature                                             |
| PMS                                                                                 | Maximum water pressure in heating mode                            |
| NOx                                                                                 | NOx class for the product                                         |
| V<br>Hz                                                                             | Electric connection                                               |
| W                                                                                   | Max. electrical power consumption                                 |
| IP                                                                                  | Protection class                                                  |
| Code (DSN)                                                                          | Specific product code                                             |
|    | Heating mode                                                      |
| Qn                                                                                  | Nominal heating load range in heating mode                        |
| Pn                                                                                  | Nominal heat output range in heating mode                         |
| Pnc                                                                                 | Nominal heat output range in heating mode (condensing technology) |
|    | Hot water generation                                              |
| Qnw                                                                                 | Nominal heating load range in domestic hot water mode             |
| Pnw                                                                                 | Nominal heat output range in domestic hot water mode              |
| D                                                                                   | Specific flow rate                                                |
| PMW                                                                                 | Maximum water pressure in domestic hot water mode                 |
|  | Barcode with serial number                                        |



## Note

Make absolutely sure that the product is compatible with the gas group at the installation site.

## 3.5 Serial number

The serial number can be found on the rear of a plastic plate at the bottom of the front casing and on the identification plate.

## 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.

# 4 Function

## 4.1 Operating concept

The display switches on when you switch on the product or press a button. You can now configure settings by pressing the buttons again.

When you switch the product off using the on/off button, the display goes out (the frost protection function is active for as long as power is supplied).

| Button                                                                              | Meaning                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>Setting the hot water temperature</li> <li>Cancelling the change to a set value or activating an operating mode</li> <li>Calling up a higher selection level in the menu</li> </ul>                                                                                                            |
|  | <ul style="list-style-type: none"> <li>Setting the heating flow temperature, filling pressure of the heating system or activating the heating mode</li> <li>Confirming a set value or activating an operating mode</li> <li>Calling up a lower selection level in the menu</li> <li>Read the system pressure (press twice)</li> </ul> |

## 4 Function

| Button                                                                                                                                                                 | Meaning                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  +   | – Calling up the additional functions                                                                         |
|  or  | – Navigating between individual menu items<br>– Increasing or decreasing the chosen set value                 |
|                                                                                       | – On/off button (press and hold the button for < 3 s)<br>– Reset button (press and hold the button for > 3 s) |

Both selection buttons have a soft key function, i.e. their function can change.

If, for example, you press the left-hand selection button  in the basic display, the current function switches from  (Domestic hot water temperature) to  (Back).

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. If you do not press any buttons for longer 15 minutes, the display returns to the basic display.

### 4.1.1 Basic display



The basic display shows the current product status.

To return to the basic display, press the  button. If you do not press any buttons within three minutes, the display becomes dark and automatically switches back to the basic display.

If an error message appears, the error code will be shown on the basic display.

The available functions vary depending on whether:

- A room thermostat is connected to the product or not
- A domestic hot water cylinder with temperature sensor is connected to the product or not

### 4.1.2 Operating levels

The product has two operating levels:

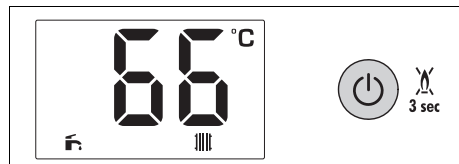
- The operator level shows the most important information and offers set-up options which do not require any special prior knowledge.
- Specialised knowledge is required in order to use the installer level (access for competent persons). This is therefore protected by an access code.

Operator level – overview (→ Page 17)

### 4.2 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 installed on-site.
3. Open the gas isolator cock, which is directly below the product or in its immediate vicinity.
4. Open the service valves in the heating installation's flow and return.
5. Open the cold water stop valve.

### 4.3 Switching on the product



1. Only start up the product once the casing has been completely closed.
2. If the display is switched off, press  for less than 3 seconds.
  - ◁ The basic display is shown in the display.

## 4.4 Setting the heating flow temperature



### Note

If the eBUS room temperature control is connected to the product, the domestic hot water temperature and the heating flow temperature cannot be set via the operating display.

**Conditions:** The temperature is controlled by the product



- ▶ Press .
  - ◁ The heating flow temperature flashes in the display.
- ▶ Press the or button to set the temperature.
  - ◁ ✓ is shown in the display.
- ▶ Confirm by pressing .



### Note

If you press the button again, the heating installation pressure is shown in the display.

- ▶ Press .
  - ◁ The basic display is shown.

**Conditions:** Controller-regulated temperature

- ▶ You cannot set the heating flow temperature.



### Note

If you press the button, the heating installation pressure is shown in the display.

## 4.5 Setting the hot water temperature



### Note

If the eBUS room temperature control is connected to the product, the domestic hot water temperature and the heating flow temperature cannot be set via the operating display.

**Conditions:** The temperature is controlled by the product



- ▶ Press .
  - ◁ The domestic hot water temperature now flashes in the display.
- ▶ Press the or button to set the temperature.
  - ◁ ✓ is shown in the display.
- ▶ Press the button to confirm.
- ▶ Press .
  - ◁ The display switches to the basic display.

**Conditions:** Controller-regulated temperature

- ▶ Set the hot water temperature on the controller. See the instructions for the controller.

**Conditions:** The temperature is controlled via the domestic hot water cylinder's thermostat.

- ▶ Set the hot water temperature on the domestic hot water cylinder. See the instructions for the domestic hot water cylinder.

## 4 Function

**Conditions:** The temperature is controlled via the domestic hot water cylinder's temperature sensor.

- ▶ Set the hot water temperature on the controller. See the instructions for the controller.

### 4.6 Switching off the product's functions

#### 4.6.1 Switching off heating mode (Summer mode)

**Conditions:** The temperature is controlled by the product

- ▶ Press 
  - ◁ The heating flow temperature flashes in the display.
- ▶ Press  and press and hold  until OFF is shown in the display.
  - ◁ ✓ is shown in the display.
- ▶ Confirm by pressing 
  - ◁ Heating mode is switched off.
- ▶ Press 
  - ◁ The display switches to the basic display.

**Conditions:** Controller-regulated temperature

- ▶ You cannot switch off heating mode on the product. See the instructions for the controller.

#### 4.6.2 Switching off the hot water handling mode

**Conditions:** Temperature regulated by the product or by the room temperature controller

- ▶ Press 
  - ◁ The domestic hot water temperature now flashes in the display.
- ▶ Press  and press and hold  until OFF is shown in the display.
  - ◁ ✓ is shown in the display.
- ▶ Press  to confirm.
  - ◁ Hot water generation is switched off.

- ▶ Press .

- ◁ The display switches to the basic display.

### 4.7 Guaranteeing the correct filling pressure in the heating circuit

#### 4.7.1 Checking the system pressure



##### Note

Your product has a pressure sensor and a digital pressure indicator.

The product switches to fault mode if the pressure falls below the required system pressure (below 0.05 MPa (0.5 bar)). If the heating installation extends over several floors, a higher system pressure may be necessary. Ask your competent person for details.

1. Press  twice.
  - ◁ The current system pressure is shown in the display.
2. Check the system pressure on the display.

##### 1 / 2

System pressure: 0.08 ... 0.2 MPa (0.80 ... 2.0 bar)

The system pressure is in the intended pressure range.

##### 2 / 2

System pressure: < 0.08 MPa (< 0.80 bar)

- ▶ Fill the heating installation.  
(→ Page 13)
  - ◁ When you have reached a sufficient pressure range, the display disappears after 20 seconds.

## 4.7.2 Filling the heating installation



### Caution.

**Risk of material damage due to heating water that is extremely calciferous or corrosive or contaminated by chemicals.**

Unsuitable tap water damages the seals and diaphragms, blocks components in the product and heating installation through which the water flows and causes noise.

- ▶ Only fill the heating installation with suitable heating water.
- ▶ In case of doubt, ask a competent person for details.



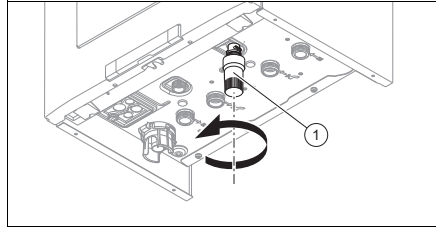
### Note

The competent person is responsible for filling the heating installation the first time.

**Applicability:** Product without filling device

- ▶ On-site, connect the filling cock to a cold water pipe, as explained by the competent person.
- ▶ Open all radiator valves (thermostatic radiator valves) of the heating installation.
- ▶ Open the cold water pipe.
- ▶ Turn the filling cock on slowly and allow water to flow in until the required system pressure has been reached.
- ▶ Close the cold water pipe.
- ▶ Purge all radiators.
- ▶ Check the system pressure on the display. (→ Page 12)
- ▶ Top up with more water if required.
- ▶ Close the filling cock.
- ▶ Disconnect the filling cock from the cold water pipe.

**Applicability:** Product with filling device



- ▶ Open all radiator valves (thermostatic radiator valves) of the heating installation.
- ▶ Slowly turn the blue valve on the filling device (1) that is located below the product and top it up with water until the required system pressure has been reached.
- ▶ Purge all radiators.
- ▶ Check the system pressure on the display. (→ Page 12)
- ▶ Top up with more water if required.
- ▶ Close the blue valve on the filling device (1).

## 4.8 Switching the product to standby mode

- ▶ Press the  button for less than three seconds.
  - ◁ Once the requirement currently in use has finished, the display will show OFF and go 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

### 4.9 Protecting the heating installation against frost

#### 4.9.1 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.

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).

#### 4.9.2 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.

## 5 Troubleshooting

### 5.1 Detecting and rectifying faults

- If faults occur or fault messages (F.XX) are displayed, proceed as set out in the tables in the appendix.
- If the product is not functioning correctly, contact a competent person.

### 5.2 Displaying the status codes

1. Press and at the same time.
  - ◁ S.XX is shown in the display, followed by the heating flow temperature and the internal system pressure.
2. Look up the meaning of the status codes.  
Status codes – Overview (→ Page 17)
3. Press .
- ◁ The display switches to the basic display.

## 6 Care and maintenance

### 6.1 Maintenance

An annual inspection and biennial maintenance 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. The inspection may require maintenance to be carried out earlier, depending on the results.

### 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.

## Decommissioning 7

- 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.

### 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.

- Press the on/off button.

◁ 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 Guarantee and customer service

#### 9.1 Guarantee

Herstellergarantie gewähren wir nur bei Installation durch einen anerkannten Fachhandwerksbetrieb.

Dem Eigentümer des Geräts räumen wir diese Herstellergarantie entsprechend den Vaillant Garantiebedingungen ein. Garantiewerben werden grundsätzlich nur von unserem Kundendienst ausgeführt. Wir können Ihnen daher etwaige Kosten, die Ihnen bei der Durchführung von Arbeiten an dem Gerät während der Garantiezeit entstehen, nur dann erstatten, falls wir Ihnen einen entsprechenden Auftrag erteilt haben und es sich um einen Garantiefall handelt.

#### 9.2 Customer service

Auftragsannahme Vaillant Kundendienst:  
021 91 5767901

## Appendix

### A Operator level – overview

| Setting level                                                                                                                           | Values        |       | Increment, select, explanation                                                                                                                          | Default setting |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                                                                                                                                         | Min.          | Max.  |                                                                                                                                                         |                 |
| Domestic hot water mode (product with integrated hot water generation or connected domestic hot water cylinder with temperature sensor) |               |       |                                                                                                                                                         |                 |
| Water temperature                                                                                                                       | Current value |       | < 35 = OFF                                                                                                                                              | OFF             |
|                                                                                                                                         | 35 °C         | 60 °C |                                                                                                                                                         |                 |
|                                                                                                                                         |               |       |                                                                                                                                                         |                 |
| Heating mode                                                                                                                            |               |       |                                                                                                                                                         |                 |
| Heating flow temperature                                                                                                                | Current value |       | < 10 = OFF<br>Underfloor heating = 35-50<br>Radiator = 35-80<br><b>Note</b><br>The temperature range above 75 °C can only be set by a competent person. | OFF             |
|                                                                                                                                         | 10 °C         | 80 °C |                                                                                                                                                         |                 |

### B Status codes – Overview



#### Note

Since the code table is used for various products, some codes may not be visible for the product in question.

Codes that are not listed here can be found in the installation instructions.

| Status code                                                                      | Meaning                                                         |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Displays in heating mode                                                         |                                                                 |
| S.00                                                                             | Heating mode: No requirement                                    |
| S.02                                                                             | Heating mode: Pump pre-run                                      |
| S.03                                                                             | Heating mode: Burner ignition                                   |
| S.04                                                                             | Heating mode: Burner on                                         |
| S.06                                                                             | Heating mode: Fan overrun                                       |
| S.07                                                                             | Heating mode: Pump overrun                                      |
| S.08                                                                             | Heating mode: Temporary shutdown after heating procedure        |
| Displays in hot water handling mode                                              |                                                                 |
| S.10                                                                             | Hot water handling mode: Requirement                            |
| S.14                                                                             | DHW mode: Burner on                                             |
| Display in Comfort mode with warm start or hot water handling mode with cylinder |                                                                 |
| S.20                                                                             | Hot water handling mode: Requirement                            |
| S.22                                                                             | Hot water handling mode: Pump pre-run                           |
| S.24                                                                             | DHW mode: Burner on                                             |
| Other displays                                                                   |                                                                 |
| S.31                                                                             | No heating demand: Summer mode, eBUS controller, waiting period |
| S.34                                                                             | Frost protection active                                         |

# Appendix

| Status code | Meaning                       |
|-------------|-------------------------------|
| S.46        | Protection mode: Minimum load |

## C Troubleshooting and fault elimination

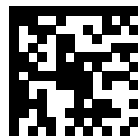
### C.1 Troubleshooting

| Symptom                                                               | Possible cause                                                                                                                              | Measure                                                                                  |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| The system pressure is flashing on the display                        | The system pressure is too low: < 0.05 MPa (< 0.50 bar). Low water pressure in the heating installation.                                    | ► Fill the heating installation. (→ Page 13)                                             |
|                                                                       | The system pressure is too high: > 0.3 MPa (> 3 bar).                                                                                       | ► Wait until the excess heating water has flowed out through the expansion relief valve. |
| 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 cold water stop valve is closed.                                                                                                        | ► Open the cold water stop valve.                                                        |
|                                                                       | The product is switched off.                                                                                                                | ► Switch on the product. (→ Page 10)                                                     |
|                                                                       | The heating flow temperature/hot water temperature has been set too low and/or the heating mode/hot water generation has been switched off. | 1. Set the heating flow temperature.<br>2. Set the hot water temperature.                |
|                                                                       | There is air in the heating installation.                                                                                                   | ► Have a competent person purge the heating installation.                                |
| Hot water generation functioning correctly; heating does not start up | The external controller is not set correctly.                                                                                               | ► Set the external controller correctly (→ Controller operating instructions).           |

### C.2 Rectifying faults

| Message                    | Possible cause                                                                      | Measure                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F.28 Ignition unsuccessful | After three unsuccessful ignition attempts, the product has switched to fault mode. | 1. Check whether the gas isolator cock is open.<br>2. Press the reset button for longer than three seconds.<br>3. If you have been unable to eliminate the ignition fault after the fault clearance attempt, consult a competent person. |





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