

**Glow** • worm The energy you need

Operating instructions

GB, IE

# Contents

# Contents

| 1    | Safety 3                              |   |
|------|---------------------------------------|---|
| 1.1  | Action-related warnings               |   |
| 1.2  | Intended use 3                        |   |
| 1.3  | General safety information            |   |
| 2    | Notes on the documentation 6          |   |
| 2.1  | Observing other applicable            |   |
|      | documents                             |   |
| 2.2  | Storing documents 6                   |   |
| 2.3  | Applicability of the instructions 6   | 1 |
| 3    | Product description7                  | 9 |
| 3.1  | CE label                              |   |
| 3.2  | Benchmark 7                           | 9 |
| 3.3  | Serial number7                        | • |
| 3.4  | Information on the identification     | 1 |
|      | plate 7                               | 1 |
| 3.5  | Product design 8                      | ļ |
| 3.6  | Overview of the operator control      |   |
|      | elements 8                            |   |
| 3.7  | Description of the display            |   |
| 3.8  | Description of button functions 9     |   |
| 3.9  | Timer 10                              |   |
| 3.10 | Operating levels 10                   |   |
| 4    | Operation 10                          |   |
| 4.1  | Starting up the product 10            |   |
| 4.2  | Basic display 10                      |   |
| 4.3  | Checking the heating system           |   |
|      | pressure10                            |   |
| 4.4  | Filling the heating installation 11   |   |
| 4.5  | Selecting the operating mode 11       |   |
| 4.6  | Setting the hot water                 |   |
|      | temperature 11                        |   |
| 4.7  | Setting the heating flow              |   |
|      | temperature 12                        |   |
| 4.8  | Product settings 12                   |   |
| 4.9  | Setting the timer 12                  |   |
| 4.10 | Switching the product to standby mode |   |
|      | , ···, ·····                          |   |
| 4.11 | Frost protection                      |   |
| 5    | Troubleshooting 13                    |   |
| 5.1  | Detecting and rectifying faults 13    |   |
| 5.2  | Fault codes in the display 14         |   |
| ~    |                                       |   |

| 6    | Care and maintenance          | 14 |
|------|-------------------------------|----|
| 6.1  | Maintenance                   | 14 |
| 6.2  | Caring for the product        | 14 |
| 6.3  | Checking the condensate drain |    |
|      | pipework and tundish          | 14 |
| 7    | Decommissioning               | 14 |
| 7.1  | Temporarily decommissioning   |    |
|      | the product                   | 14 |
| 7.2  | Permanently decommissioning   |    |
|      | the product                   | 14 |
| 8    | Recycling and disposal        | 14 |
| 9    | Guarantee and customer        |    |
|      | service                       | 15 |
| 9.1  | Guarantee                     | 15 |
| 9.2  | Customer service              | 15 |
| Appe | ndix                          | 16 |
| Α    | Operator level – overview     | 16 |
| В    | Troubleshooting               | 16 |

### 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 cent-

ral 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 shall not play with the product. Cleaning and user maintenance shall not be made by children without supervision. 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 com-

mercial or industrial use is also deemed to be improper.

### Caution.

Improper use of any kind is prohibited.

## 1.3 General safety information

# 1.3.1 Installation by skilled tradesmen 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.

# 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 Emergency Service Provider

+44 (0) 800 111999 by telephone from 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 from escaping flue gas

If you operate the product with an empty condensate siphon, flue gas may escape into the room air.

 In order to operate the product, ensure that the condensate siphon is always full.

#### 1.3.6 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.

#### 1.3.7 Risk of death due to lack of safety devices

A lack of safety devices (e.g. expansion relief valve, expansion vessel) can lead to potentially fatal scalding and other injuries, e.g. due to explosions.

 Ask a competent person to explain how the safety devices work and where they are located.

#### 1.3.8 Risk of death due to changes to the product or the product environment

 Never remove, bridge or block the safety devices.

- Do not alter the safety devices in any way.
- 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 lines
  - to constructional conditions that may affect the operational reliability of the product
- 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.

#### 1.3.10 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.

#### 1.3.11 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.

# 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 num- | Gas Council |  |
|-----------|--------------|-------------|--|
|           | ber          | Number      |  |
| ESSENTIAL | 0010016113   | 47-019-27   |  |
| 24c       |              |             |  |
| ESSENTIAL | 0010016115   | 47-019-28   |  |
| 28c       |              |             |  |

# Notes on the documentation 2

### 3 Product description

# 3.1 CE label

# CE

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.

#### 3.2 Benchmark

Glow-worm 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.

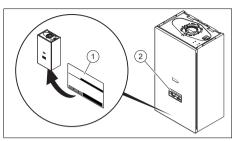
The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference. Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available 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.benchmark.org.uk.

#### 0020206372 03 Essential Operating instructions

#### 3.3 Serial number



The serial number is located on the identification plate (1) and in the short operating instructions (2) ( $\rightarrow$  Page 7).

# 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.

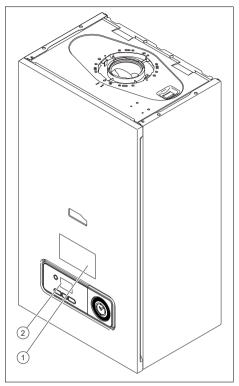
| Information                                  | Meaning  |
|--|--|
| on the identi-                               |  |
| fication plate                               |  |
| 0 - <b>90909000000000000</b> 0 0 0 0 0 0 0 0 | Barcode with serial number   |
| Serial number                                | For quality control purposes;<br>3rd and 4th digits = year of<br>production<br>For quality control purposes;<br>5th and 6th digits = week of<br>production<br>For identification purposes;<br>7th to 16th digits = product<br>article number<br>For quality control purposes;<br>17th to 20th digits = place of<br>manufacture |
| Essential                                    | Product description  |
| 2H, G20 -                                    | Factory setting for type of  |
| 20 mbar                                      | gas and gas connection   |
| (2 kPa)                                      | pressure   |
| Cat.   | Approved gas category  |

# **3 Product description**

| Information<br>on the identi-<br>fication plate | Meaning  |  |
|---|--|--|
| Condensing technology                           | Efficiency class of the boiler<br>in accordance with EC Dir-<br>ective 92/42/EEC |  |
| Type: Xx3(x)                                    | Permissible flue gas connec-<br>tions  |  |
| PMS   | Maximum water pressure in<br>heating mode  |  |
| PMW   | Maximum water pressure in<br>hot water handling mode                             |  |
| V/Hz  | Electric connection  |  |
| W   | Max. electrical power con-<br>sumption   |  |
| IP  | Level of protection  |  |
| m   | Heating mode   |  |
| 즈   | Hot water generation   |  |
| <i>P</i> n                                      | Nominal heat output range in heating mode  |  |
| Ρ   | Nominal heat output range in hot water handling mode                             |  |
| Qn  | Nominal heating load range<br>in heating mode                                    |  |
| Qnw   | Nominal heating load range<br>in hot water handling mode                         |  |
| T <sub>max.</sub>                               | Max. flow temperature  |  |
| NOx   | NOx class for the product  |  |
| Code (DSN)                                      | Specific product code  |  |
| ((  | → "CE label" section   |  |
| i   | Read the instructions.   |  |
|   | → "Recycling and disposal"<br>section  |  |
| GC no.  | Gas council number   |  |

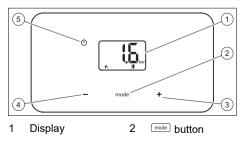


#### 3.5 Product design



1 Magnetic brief 2 Control elements operating instructions with type designation and serial number

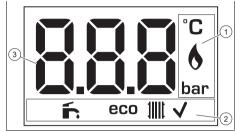
# 3.6 Overview of the operator control elements



# **Product description 3**

- 3 🕒 button 5 🖒 button
- 4 🖃 button

#### 3.7 Description of the display



3

- 1 Operating information
- 2 Active operating mode, selecting and confirming the operating mode

Display showing the current heating flow temperature, the filling pressure in the heating installation, the operating mode or a fault code

| Symbol | Meaning  |  |  |
|--------|--|--|--|
| 6      | Burner operating correctly <ul> <li>Burner on</li> </ul>   |  |  |
| Ŭ      |  |  |  |
| 16.    | Heating installation filling pressure  |  |  |
|        | <ul> <li>Permanently on: Filling<br/>pressure in the permitted<br/>range.</li> <li>Flashing display: Filling<br/>pressure is outside of the<br/>permissible range or the<br/>purging function has been<br/>activated.</li> </ul> |  |  |
| ŕ      | <ul> <li>DHW mode</li> <li>Permanently on: Hot water activated</li> <li>Flashing: Burner on in draw-off mode</li> </ul>  |  |  |
| eco    | Hot water saving mode  |  |  |
|        | <ul> <li>Hot water temperature &lt;<br/>50 °C</li> <li>Normal operating temper-<br/>ature</li> </ul>   |  |  |

| Symbol       | Meaning   |  |  |
|--------------|---|--|--|
| 11111        | Heating mode  |  |  |
|              | <ul> <li>Permanently on: Heating<br/>mode activated</li> <li>Flashing: Burner on in<br/>heating mode</li> </ul> |  |  |
| -{}-         | Display flashing:   |  |  |
|              | <ul><li>Switching on the product</li><li>Fault</li></ul>  |  |  |
| $\checkmark$ | Setting confirmed   |  |  |
| F.XX / Err   | Fault in the product  |  |  |
|              | <ul> <li>Appears instead of the<br/>basic display.</li> </ul>   |  |  |
| OFF          | <ul> <li>Appears when the<br/>product goes into standby<br/>mode.</li> </ul>                                    |  |  |

#### 3.8 Description of button functions

| Button | Meaning   |  |  |  |
|--------|---|--|--|--|
| mode   | <ul> <li>Selecting the operating mode</li> </ul>    |  |  |  |
|        | <ul> <li>Confirm the operating mode</li> </ul>      |  |  |  |
|        | <ul> <li>Confirm setting</li> </ul>                 |  |  |  |
|        | <ul> <li>Increase the display contrast</li> </ul>   |  |  |  |
| ⊡ or ➡ | <ul> <li>Setting the hot water temperat-</li> </ul> |  |  |  |
|        | ure   |  |  |  |
|        | <ul> <li>Setting the heating flow tem-</li> </ul>   |  |  |  |
|        | perature  |  |  |  |
|        | - Increase or decrease the selec-                   |  |  |  |
|        | ted setting   |  |  |  |
|        | <ul> <li>Increase the display contrast</li> </ul>   |  |  |  |
| Ф      | <ul> <li>Activate the product: On/off</li> </ul>    |  |  |  |
|        | (standby)   |  |  |  |
|        | <ul> <li>Reset the product</li> </ul>               |  |  |  |

Adjustable values flash on the display.

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

If you do not press any buttons for five seconds, the displays switches back to the basic display.

If you do not press any buttons for one minute, the display contrast decreases.

# **4** Operation

#### 3.9 Timer

You can control the heating mode using the timer.

| Position for<br>the selection<br>switch | Functionality                                       |
|---|---|
| 0                                       | Heating mode permanently<br>switched off            |
| $\odot$                                 | Heating mode intervals in accordance with the timer |
| 1                                       | Heating mode permanently switched on                |

• Set the timer. ( $\rightarrow$  Page 12)

#### 3.10 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 16)

# 4 Operation

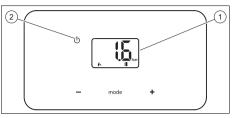
#### 4.1 Starting up the product

#### 4.1.1 Opening the isolator devices

**Conditions:** The competent person who installed the unit will explain where the isolator devices are and how to handle them.

- Ensure that the gas isolator cock is fully open.
- Ensure that the stop cocks in the heating installation's flow and return are open.
- Ensure that the cold water stop cock is open.

#### 4.1.2 Starting up the product



Press the (2) button.

 When the unit is switched on, the "Basic display" is shown in the display (1).

#### 4.2 Basic display



The filling pressure in the heating installation and the operating mode are shown in the display's basic display.

To return to the basic display:

Wait more than five seconds without pressing any buttons.

If a fault message is present, the basic display switches to the fault code.

#### 4.3 Checking the heating system pressure

- 1. Once a month, check that the pressure in the central heating system, which is displayed on the user interface, is between 0.1 MPa and 0.15 MPa (1.0 bar and 1.5 bar).
  - If the filling pressure is correct, no action needs to be taken.
  - ▽ If the filling pressure is too low, add more water to the heating installation.

## i Note

If the heating flow temperature is shown in the display, press and hold the ⊡ and ⊕ buttons at the same time for longer than five seconds, or temporarily deactivate heating mode in order to display the pressure.

2. Fill the heating installation. (→ Page 11)

#### 4.4 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, any subsequent top-ups and the water quality.

The operator alone is responsible for topping up the water in the heating installation.

- Open all radiator valves (thermostatic radiator valves) of the heating installation.
- 2. Slowly open the filling cock, as shown to you by the competent person.

- 3. Fill with water until the required filling pressure is reached.
- Check the filling pressure in the display.
- 5. Close the filling cock after filling.

#### 4.5 Selecting the operating mode

## Note

The unit is always activated with the preselected operating mode.

 Press me repeatedly until the display shows the required operating mode.

| Symbol | Operating mode      |
|--------|---------------------|
| 1∭.₊ 🖌 | Heating + hot water |
| 11111  | Heating only        |
| í.     | Hot water only      |
| -      | No requirement      |

# 4.6 Setting the hot water temperature

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

 Set the hot water temperature on the boiler (→ Page 12).

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

Set the hot water temperature on the controller.

## Note

If you press the ⊂ or ⊕ button, the display shows the o o symbol.

# **4 Operation**

# 4.6.1 Switching the warm start function on and off

**Applicability:** Combination unit, Available warm start function for hot water

- ► Hold the <a>/→</a> buttons down simultaneously for more than 3 seconds.
  - If **ECO** is shown in the display, the warm start function is deactivated.
  - If **ECO** is not shown in the display, the warm start function is activated.

#### Note

The preheating function is made available by a suitably specialised installer.

# 4.7 Setting the heating flow temperature

**Conditions**: Temperature controlled by the boiler, with heating mode activated

Set the heating flow temperature on the boiler (→ Page 12).

#### Note

The competent person may have adjusted the maximum possible temperature.

**Conditions**: Temperature controlled by the controller, with heating mode activated

- Set the maximum heating flow temperature on the boiler (→ Page 12).
- Set the room temperature on the controller.
  - The actual heating flow temperature is set automatically by the controller.

**Conditions**: Outside temperature sensor connected to the boiler, with heating mode activated

- - The display shows the heating flow temperature calculated by the boiler.

The actual heating flow temperature is set automatically by the boiler.

#### 4.8 Product settings

Note

i

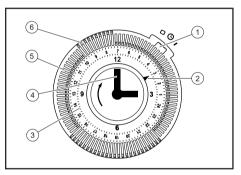
The sequence in which the available settings are shown depends on the operating mode selected.

If the **Domestic hot water + Heating** operating mode is selected, the hot water temperature must be confirmed in order to set the flow temperature of the heating.

- 2. Press the me button to confirm.

#### 4.9 Setting the timer

Applicability: Timer, Great Britain



- 1. Turn the minute hand (4) clockwise until the arrow (2) points to the current time on the 24-hour dial (3).
- 2. Slide the pin for the time interval, in which the heating mode should be switched on, outwards (6).
- Slide the pin for the time interval, in which the heating mode should be switched off, inwards (5).
- Set the selection switch (1) to the midposition ③.

# 4.10 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 main power supply is not interrupted. The product continues to be supplied with power.

#### 4.11 Frost protection

#### 4.11.1 The product's frost protection function

The frost protection function switches on the boiler and the pump as soon as the protection temperature in the heating circuit is reached.

Protection temperature: 12 °C

The pump stops once the minimum water temperature in the heating circuit is reached.

Minimum water temperature: 15 °C

If the burner ignition temperature in the heating circuit is reached, the burner switch is switched on and continues to operate until the burner anti-cycling temperature is reached.

- Burner ignition temperature: 7 °C
- Burner anti-cycling temperature: 35 °C

The hot water circuit (cold and hot water) is not protected by the boiler.

Frost protection for the system can only be guaranteed by the boiler.

A controller is required to control the temperature of the system.

#### 4.11.2 Frost protection for the system

#### Note

Ensure that the product's power and gas supply are working correctly.

**Conditions**: If you are away from home for several days, Without controller

Switch the product to standby mode.
 (→ Page 13)

**Conditions**: If you are away from home for several days, With controller

 Program the number of days you will be away in the controller to activate the frost protection devices.

**Conditions**: If you are away from home for a prolonged period

Contact a qualified competent person, who can completely drain the system or protect the heating circuit by adding a special frost protection agent for heating installations.

### 5 Troubleshooting

#### 5.1 Detecting and rectifying faults

If problems occur whilst operating the product, you can carry out certain selfchecks with the aid of the table in the appendix.

Troubleshooting ( $\rightarrow$  Page 16)

If the product still does not function without problems after the checks have been carried out using the table, contact your competent person to rectify the problem.

# 6 Care and maintenance

#### 5.2 Fault codes in the display

Fault codes have priority over all other displays. If several faults occur at the same time, the corresponding codes are displayed alternately for two seconds each.

 If your product displays a fault code (F.xx), contact a competent person.

### 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 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 pipe-work and tundish.

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

#### 7 Decommissioning

# 7.1 Temporarily decommissioning the product

- Temporarily decommission the product only if there is no risk of frost.
- Switch off the product via the main switch provided on-site.
  - The display goes out.
- When decommissioning for an extended period (e.g. holiday), you should also close the gas isolator cock and the cold water stop cock.

#### 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

For contact details for our customer service department, you can write to the address that is provided on the back page, or you can visit www.glow-worm.co.uk.

# Appendix

# Appendix

# A Operator level – overview

| Setting level               | Values        |        | Unit | Increment, select | Default set- |
|-----------------------------|---------------|--------|------|-------------------|--------------|
|                             | Min.          | Max.   |      |                   | ting         |
| Heating installation        |               | ÷      |      |                   |              |
| Pressure in the heating in- | Current       | value  | bar  | 0.1               |              |
| stallation                  | 1             | 1.5    |      |                   |              |
| Heating flow temperature    | Current value |        | °C   | 1                 | 60           |
|                             | 10            | Preset |      |                   |              |
|                             |               | in the |      |                   |              |
|                             |               | system |      |                   |              |
| Hot water generation        |               |        |      |                   |              |
| Hot water temperature       | Current value |        | °C   | 1                 | 55           |
|                             | 35            | 60     |      |                   |              |
| Eco hot water temperature   | Current value |        | °C   | 1                 |              |
|                             | 35            | 50     | 1    |                   |              |

## **B** Troubleshooting

| Fault   | Cause   | Measure   |
|---|---|---|
| Product does not<br>start up:<br>- No hot water | The gas isolator cock installed on-site<br>and/or the gas isolator cock on the<br>product is closed.            | Open both gas isolator cocks.   |
| <ul> <li>Heating does</li> </ul>                | The cold water stop cock is closed.   | Open the cold water stop cock.  |
| not heat up                                     | The power supply in the building is dis-<br>connected.  | Check the fuse in the build-<br>ing. The product automatically<br>switches on after the power<br>supply is restored.                                      |
|   | The product is switched off.  | Switch on the product ( $\rightarrow$ "Switch-<br>ing on the product" section).   |
|   | The heating flow temperature or hot   | Set the heating flow temperat-  |
|   | water temperature has been set too  | ure and hot water temperature ( $\rightarrow$   |
|   | low.  | "Setting the heating flow temper-<br>ature" section/→ "Setting the hot<br>water temperature" section).  |
|   | The system pressure is insufficient.<br>Low water pressure in the heating in-<br>stallation (fault code: F.22). | Fill the heating installation (→<br>"Filling the heating installation"<br>section).<br>If the pressure drops frequently,<br>contact your competent person |
|   |   | about this.   |

| Fault                            | Cause                                     | Measure                                      |
|----------------------------------|---|--|
| Product does not                 | The system pressure is too high.          | Purge a radiator in order to re-             |
| start up:                        |   | duce the pressure in the heating             |
| <ul> <li>No hot water</li> </ul> |   | installation, or contact your com-           |
| <ul> <li>Heating does</li> </ul> |   | petent person about this.                    |
| not heat up                      | There is air in the heating installation. | Purging the radiators                        |
|                                  |   | If the problem occurs again: In-             |
|                                  |   | form the competent person                    |
|                                  | After three successive failed ignition    | Press the <sup>(b)</sup> button. The product |
|                                  | attempts, the system switches to fault    | carries out a new ignition attempt.          |
|                                  | mode (fault code: F.28).                  | If the ignition problem is not rec-          |
|                                  |   | tified after three fault clearance           |
|                                  |   | attempts, contact a competent                |
|                                  |   | person.                                      |
| Hot water gener-                 | The external controller is not set cor-   | Set the external controller cor-             |
| ation functioning                | rectly.                                   | rectly (→ Controller operating in-           |
| correctly; heating               |   | structions).                                 |
| does not start up.               |   |  |

#### Publisher/manufacturer

**Glow-worm** Nottingham Road – Belper – Derbyshire DE56 1JT Telephone 01773 824639 – Technical helpline 0330 100 7679 After sales service 0330 100 3142 www.glow-worm.co.uk



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