



Glow-worm

Instructions for Use

Easicom 24

G.C. No. 47-019-18

Easicom 28

G.C. No. 47-019-19

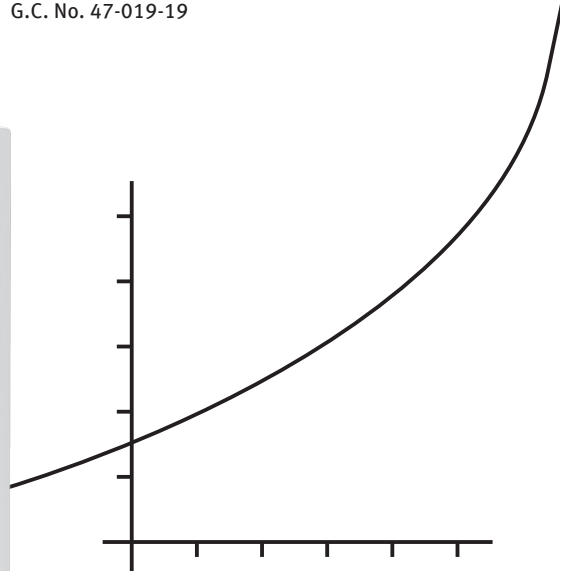




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READ CAREFULLY BEFORE USING

1 Read me

1.1 Welcome

These instructions are an integral part of the boiler and must, to comply with the current issue of the Gas Safety (Installation and Use) Regulations, be left with the user.

Please ensure that the installer has fully completed the Benchmark Checklist in the centre 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.

- Please read these instructions and follow them carefully for the safe and economical use of your boiler.



IMPORTANT:
Do not forget to read the chapters “Safety” and “Guarantee” where you will find important information for your safety.

1.2 Guarantee Pack

The pack contains the letter of introduction and the guarantee. The extended guarantee is supplied loose and we recommend that you should read it.

- Complete and return as soon as possible your guarantee registration card.

If your guarantee registration card is missing you can obtain a copy or record your registration by telephoning the Glow-worm Customer Service number 0800 073 2142.

1.3 Servicing

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 may be required in the event of any warranty work and as supporting documentation relating to home improvements in the optional documents section of the Home Information Pack.

To ensure the continued efficient and safe operation of the boiler it is recommended that it is checked and serviced at regular intervals. The frequency of servicing will depend upon the site conditions and usage, but in general, once a year should be enough.

- To obtain service, please call your installer or Glow-worm’s own service organisation.

1.4 Benchmark

Glow-worm 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.centralheating.co.uk



1.5 Quick reference guide

We designed this Quick reference guide so that you can start using your appliance right away.

This Quick reference guide assumes that the appliance have been installed and commissioned by a competent person.

NOTES: If the central heating (C.H.) pressure falls below 0.4bar the display will flash the current pressure and the boiler will not operate, refer to fault finding section.

If fault persists contact your Installation/ Servicing company or Glow-worm Service.

2 Introducing your appliance

2.1 Appliance description

The Easicom range of boilers are designed for use as part of a sealed water central heating system with fully pumped circulation. The pump, expansion vessel and associated safety devices are all fitted within the boiler.

The domestic hot water is delivered directly to the tap without the need for storage.

Intelligent controls are available as accessories from Glow-worm.

Contact your Installer or Glow-worm sales for further information.

The Easicom boiler is an appliance that uses condensing technology, which recovers heat from the flue gases, this operating principle, consumes less energy and contributes to the reduction of your household CO2 emissions.

This appliance is a room-sealed type equipped with a flue system for air supply and the removal of combustion products. This flue system offers the possibility to

install the appliance in any room without the need for additional ventilation.

Installation and commissioning of the appliance should only be carried out by a competent person. They are responsible for the installation and the commissioning in accordance with standards in force.

You should also consult a competent person for maintenance and repair of the appliance as well as for any adjustment necessary.

2.2 Accessories

The Easicom is compatible with most makes of programmable room thermostats. The boiler can supply either 230V or 24V depending on the type.

For increased system compatibility and increased energy saving with intelligent control Glow-worm offer a range of controls dedicated to work using a unique communication system - eBus.

- For further details please contact your installer.

3 Product documentation

3.1 Document storage

- Make sure that this manual is stored close to your appliance for future reference. Should you move home ensure that this manual is handed over to the new home owners.
- Read these instructions and follow them carefully for the safe and efficient use of your appliance.

No responsibility or liability can be accepted for damages caused by failure to follow the instructions in this manual.

3.2 Explanation of symbols



DANGER:
Risk of injuries.



ATTENTION:
Risk of damage to the appliance or to its surroundings.



IMPORTANT:
Important information.

4 Safety

4.1 What to do if you smell gas?

- isolate your gas supply at the gas emergency control valve.
- Eliminate all sources of ignition, i.e. smoking, blowlamps, hot air guns etc.
- do not operate electrical lights or switches, either on or off. Open all doors and windows, ventilate the area.
- open immediately windows and doors in order to ventilate the property.
- do not search for gas leaks with a naked flame.
- call the gas suppliers emergency phone number: 0800 111 999
- alert other building occupants.

4.2 Safety recommendations

You must comply with the following recommendations and safety instructions:

- Never perform any maintenance or repair of the appliance yourself. Only competent persons are allowed to work on the appliance.
- Never tamper with safety devices.

- Do not attempt to modify the appliance or its immediate surroundings as this may affect on the safe use of the appliance.
- Under no circumstances must the user interfere with or adjust sealed parts.
- Do not allow children to operate the appliance.
- Do not obstruct the flue system

Certain home improvements may adversely affect the operation of your appliance – you should consult your installer for advice before carrying out any work.

- Do not expose the appliance to high humidity.
- Do not use or store explosive or inflammable materials (e.g. petrol, aerosols, solvents, chlorine based detergents, paint, glue etc.) in the same room as the appliance. Under certain conditions, these substances can prove to be corrosive.
- Do not touch the heated surfaces of the appliance, such as outlet duct, hydraulic connections, also after the appliance operation because, for a certain time, these surfaces may become hot. Any contact with them can cause burns.
- The hot water delivered by the appliance can be very hot. The appliance hot water temperature can be adjustable to suit your specific needs as part of the commissioning. Particular care must be taken should the system be used by young children, the very old and those with sensory loss. In these instances lower distribution temperatures should be used or the system protected by a tempering valve.

READ CAREFULLY BEFORE USING

This appliance contains metal parts (components) and care should be taken when handling and cleaning, with particular regard to edges.

- In the case of any water leak, immediately turn off the cold water supply to the appliance and have the leak repaired by your competent person.
- Do not store or place articles on the appliance.

4.3 Safety regulations

Servicing/maintenance should be carried out by a **competent person** approved at the time by the Health and Safety Executive, in accordance with the rules in force in the countries of destination.

If this boiler is installed in a rented property in the UK there is a duty of care imposed on the owner of the property by the current issue of the Gas Safety (Installation and Use) Regulations, Section 35.

Gas Safety (Installation and Use) Regulations

In your own interests and that of safety, it is the Law that ALL gas appliances have been installed by a competent person approved at the time by the Health and Safety Executive, in accordance with the current issue of these regulations.

Gas Category

This boiler is for use only on G20 natural gas but can be converted for use on G31 propane.

Electrical Connection

The boiler **MUST** be earthed.

The boiler **MUST** be connected to a permanent 230V ac, 50Hz supply, fused at 3A.

Connection of the whole electrical system of the boiler, including any heating controls, to the electrical supply must be through one common isolator.

The colours of three core flexible cable are, blue - neutral, brown - live, green and yellow - earth.

Testing and Certification

This boiler is certificated to the current issue of EN 483 for performance and safety.

It is important that no alteration is made to the boiler unless approved, in writing, by Glow-worm.

Any alteration not approved by Glow-worm, could invalidate the certification, boiler warranty and may also infringe the current issue of the statutory requirements.

CE Mark

This boiler meets the requirements of Statutory Instrument, No.3083 of the Boiler (Efficiency Regulations, and therefore is deemed to meet the requirements of Directive 92/42/EEC on the efficiency requirements for new hot water boilers fire with liquid or gaseous fuels.

Type test for purposes of Regulation 5 certified by: Notified body 1312.

Product/production certified by: Notified body 0086.

The CE mark on this appliance shows compliance with:

- Directive 2009/142 EEC on the approximation of the laws of the Member States relating to appliances burning gaseous fuels.
- Directive 2006/95/EEC on the harmonisation of the Laws of the Member States relating to electrical

equipment designed for use within certain voltage limits.

- Directive 2004/108/EEC on the approximation of the Laws of the Member States relating to electromagnetic compatibility.



The CE mark shows that this appliance has been designed according to the safety techniques and rules in force. The compliance of this appliance with the relevant standards has been certified.

5 Guarantee / Responsibility

5.1 Detailed guarantee

Thank you for installing a new Glow-worm appliance in your home.

Glow-worm appliances are manufactured to the very highest standard so we are pleased to offer our customers a Comprehensive 36 month Guarantee.

5.2 Appliance use / manufacturer responsibility

Maintenance should be carried out by a competent person approved at the time by the Health and Safety Executive, in accordance with the rules in force in the countries of destination.



ATTENTION:
The guarantee is applicable on the condition that:

- The appliance is installed by a competent person in accordance with installation instructions.
- The appliance is used for normal domestic purposes and in accordance with the manufacturer's operating and maintenance instructions.

- The appliance is serviced, maintained, by a competent person.
- The repair or replacement of parts during the guarantee period does not have the effect of extending the period.



ATTENTION:
The manufacturer has no responsibility whatsoever for any damage resulting from:

- Any defects or damage resulting from incorrect or poor installation, inadequate servicing, or maladjustment of the gas or water used.
- Any defects in the system to which the appliance is connected.
- Any defects caused by inadequate frost protection.
- Any deterioration or maladjustment following changes in the nature or pressure of the gas or the water used, or a change in the characteristics of the electrical supply voltage.
- For further details, refer to your Terms and Conditions.



DANGER:
This appliance is intended to be installed only within the designated countries displayed on the type plate.

This appliance is not designed to be used by persons (including children) with physical, sensory or mental restrictions, or a lack of experience or knowledge. To ensure the safety of these persons, they must seek help from and be guided by persons who are competent to explain the usage of this appliance.

- Make sure that children do not play with this appliance.

6 Recycling

The packaging, the appliance and the contents of the package should be recycled in compliance with the regulations in force.

6.1 Appliance

Most of the appliance is made of recyclable materials.



This symbol indicates that this appliance must not be disposed of with household waste, that it should be selectively collected for energy recovery, reuse or recycling.

- Take the appliance to an appropriate collection point.

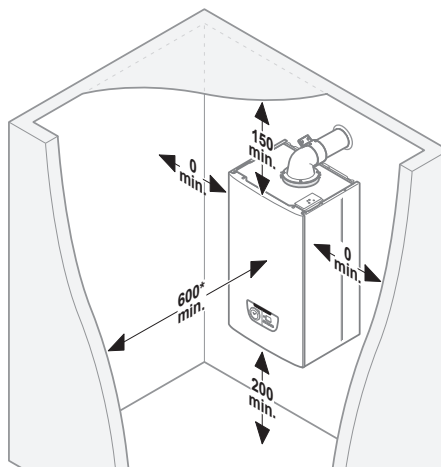
6.2 Packaging



IMPORTANT:
The recycling of the packaging must be carried out by the qualified professional who installed the appliance.

- Recycle the appliance packaging by sorting the waste to separate those which can be recycled (cartons, plastics...) from those that cannot (strapping ...).

7 Clearances



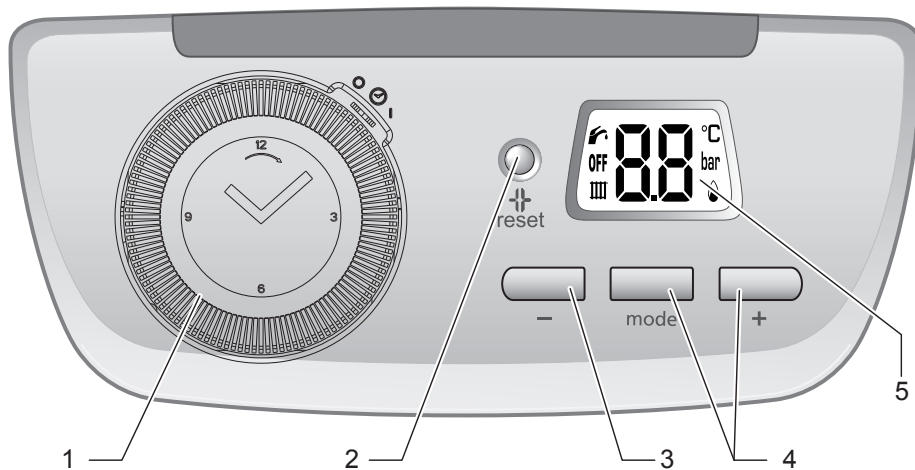
NOTE:

- * A removable compartment door can be placed a minimum 5 mm in front of appliance. A clearance of 600 mm is required from a fixed surface.

HOW TO USE YOUR APPLIANCE

8 Overview

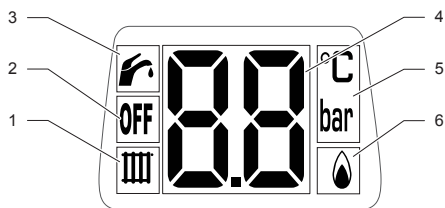
8.1 Fascia



Key

- 1 Analogue clock
- 2 Reset button
- 3 Mode selection button
- 4 Temperature adjustment
- 5 Display

8.2 Display



Key

- 1 Heating
- 2 OFF
- 3 Domestic hot water
- 4 DHW/CH water temperature/CH pressure
- 5 Symbol indicates temperature or pressure
- 6 Symbol indicates burner ON

8.3 Switching On

Check that all isolating valves and the gas service cock on the appliance are open and that water flows from the hot water taps, close the taps.



DANGER:
Do not operate the boiler without water.

- Make sure that:
 - The appliance has electrical power,
 - The gas service cock is open
 - The mains water supply is turned on
 - Check that the clock/external controls are calling for heat.



DANGER:
If you are in any doubt about the boiler being filled with water contact your installer or Glow-worm's own service organisation using the telephone number shown in the chapter "Contact your after-sales organisation".

The control-panel display switches on. After an initiation cycle that lasts a few seconds, the appliance is ready to function.

8.4 Turning off

- Switch the power supply off to your appliance.

The appliance is no longer powered and the display switches off.



DANGER:
If you intend to leave your property empty for a prolonged period, please refer to the Appliance Safety Devices section.

8.5 User Controls

8.5.1 Selection of operating mode(s)

To change the operating mode:

- Select the function mode by pressing **mode**.

Pictogram	mode
	Heating + domestic hot water
	Heating only
	Domestic hot water only



IMPORTANT:
When neither of the 2 pictograms is displayed, the boiler is in frost-protection mode.

8.5.2 Adjusting the domestic hot water temperature

- Press the buttons \oplus or \ominus of the function to adjust the temperature of domestic hot water.

	Temperature of the water °C
Minimum	38
Maximum	60


NOTE: If a Glow-worm outdoor sensor or Glow-worm intelligent controls are fitted, the temperature of the water in the heating circuit is calculated by the boiler. It is neither necessary nor possible to adjust it manually.

8.6 TIMER

8.6.1 Setting the time

- Refer to diagram below.
- Rotate the minute hand (2) clockwise on the 24 hour clock dial (1) until the triangle (6) lines up with the current time.

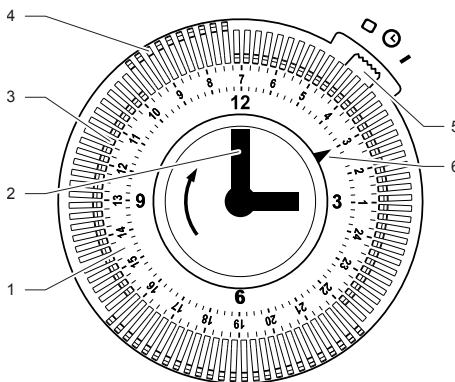
8.6.2 Setting the programme “ON and OFF” times.

- Refer to diagram below.
- Select the ON times by pushing the black tappets to the outside (4).
- Select the OFF times by pushing the black tappets to the inside (3).
- Position the selector switch (5) to the middle position .

The heating will now operate your chosen programme.

8.6.3 To override the timer.

- Move the selector switch (5) to the I position and the heating will operate continuously.
- Move the selector switch (5) to the 0 position to switch the heating OFF.



Key

- 1 24 hour clock dial
- 2 Minute hand
- 3 Off tappets to the inside
- 4 On tappets to the outside
- 5 Selector switch
- 6 Triangle

ANY ASSISTANCE ?

ANY ASSISTANCE?

9 Fault Finding

In this section fault codes that are displayed, which CAN be carried out by the USER to restore appliance operation (Corrective action: ...). Other fault codes MUST be solved by a competent person only.



IMPORTANT:

Like all condensing boilers it will produce a plume of condensation from the flue terminal in cool weather.

This is due to the high efficiency and hence low flue gas temperature of the boiler. It is normal and not a fault indication.

- If after carrying out this basic advice and your appliance still does not work, leave it turned off and contact your competent person.

Fault code	Possible causes	Solution
The boiler stops working	Electrical circuit interrupted	Check that there is no power cut and that the appliance is correctly connected. When electrical power comes back on, the appliance automatically comes back into service. If the fault persists, contact your Installation/ Servicing company or Glow-worm Service.

Fault code	Possible causes	Solution
	Reset	Press the reset button, then wait 5 secs. Should a fault be indicated, a further 2 more attempts can be made.
F.xx	Fault	A fault is indicated by a flashing, alternating 'F' and number. If the fault persists after 3 reset attempts, contact your Installation/ Servicing company or Glow-worm Service.
0.4 ^{bar}	Lack of water in the installation (< 0.5 bars)	Contact your Installation/ Servicing company or Glow-worm Service, to have your system checked.
25 ^{bar}	Excess water in the installation	With central heating off, open the vent (bleed screw) on a radiator to allow water to escape and reduce the pressure in the heating circuit, or contact your Installation/ Servicing company or Glow-worm Service.

10 Appliance safety devices

10.1 Boiler Shutdown

The boiler software is designed to recognise the potential for an overheat lockout and will shutdown before this happens.

- To restart the boiler, press the reset button, see chapter «Quick reference guide».

If the boiler fails to resume normal operation and all external controls are calling for heat, then call your Installation/ Servicing company or Glow-worm service.

10.2 Protecting against frost

10.2.1 Appliance Protection

In case of the risk of frost:

- Make sure that the electrical and gas supply to the appliance is turned on.
- The frost-protection system starts the appliance's pump when the temperature in the heating circuit goes below 12°C. The pump stops when the temperature of the water in the heating circuit reaches 15°C. If the temperature in the heating circuit goes below 7°C, the burner is lit until the temperature reaches 35°C.

If the boiler is in «Domestic Hot Water» mode only, the frost-protection system is also active.

10.2.2 System Protection

The boiler alone cannot ensure that the installation is protected against frost.

NOTE: Any other exposed areas of the system should be protected by a separate frost thermostat.

In case of prolonged absence, where power to the dwelling and the boiler is switched off, contact your Installation/Servicing company or Glow-worm Service to have the installation drained or to have the heating circuit protected by adding an anti-freeze specially designed for heating systems.



CAUTION:

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

10.3 Condensate Drain Blockage

As a safety feature the boiler will stop working if the condensate drain becomes blocked. During freezing conditions this may be due to the forming of ice in the condensate drain external to the house or in an unheated area such as a cellar or loft.

- Release an ice blockage by the use of warm cloths on the pipe.



Warning note:

Do not use boiling water.

The boiler should then restart.

- Contact your Installation/Servicing company or Glow-worm service if the fault persists.

10.4 Safety Discharge Valve

The safety discharge valve and discharge pipe is fitted to the boiler.

- If there is any discharge from the pipe, switch off the boiler electrical supply, then call your Installation/Servicing company or Glow-worm service.

11 Appliance maintenance and servicing

11.1 Cleaning



DANGER:
Before cleaning turn the appliance off.

The appliance casing can be cleaned using a mild liquid detergent with a damp cloth, then a dry cloth to polish.



IMPORTANT:
Do not use any form of abrasive or solvent cleaner as you may damage the paintwork.

11.2 Regular servicing

Regular servicing of the appliance is important to the prolonged, safe and efficient use of your appliance.



DANGER:
Incorrect or inadequate servicing can severely affect the safety of the appliance and can lead to injury.

We recommend that your appliance is serviced every year.

- Only use a competent person.

The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service. The Benchmark Checklist may be required in the event of any warranty work and as supporting documentation relating to home improvements in the optional documents section of the Home Information Pack.

To obtain service, please call your installer or Glow-worm's own service organisation.

11.3 Spare Parts

In order to guarantee the safe and prolonged life of the product, insist that only the manufacturer's genuine spare parts are used.

- Do not use reconditioned or copy parts that have not been clearly authorised by Glow-worm.
- If replacement parts are required contact Glow-worm's own service organisation for advice using the telephone number below.

Tel: 01773 828100

or for approved stockist, visit www.glow-worm.co.uk.

- Please quote the name and model of the boiler.

The name and model badge is on the front case.

- If in doubt seek advice from the local gas company or Glow-worm's own service organisation using the telephone number below.

Tel: 01773 828100

11.4 Sealed Water Systems

The draining, refilling and pressurising **MUST** be carried out by a **competent person** approved at the time by the Health and Safety Executive.

- Contact Glow-worm's own service organisation using the telephone number below.

Tel: 01773 828100

12 Tips for saving energy

Your installer will be able to give energy saving advice about your system and its controls.

For energy saving advice you can contact the Energy Savings Trust for advice or visit www.energysavingtrust.org.uk who offer simple effective advice about saving energy.

Regular servicing of your boiler will help maintain its efficiency - servicing once a year is recommended.

Turn your thermostat down. Reducing your room temperature by 1°C could cut your heating bills by up to 10 percent. Set your heating and hot water at the time controller to come on only when required rather than all the time.

13 Contact your after-sales organisation

Customer service call

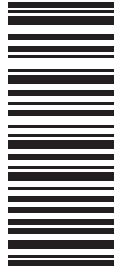
Tel: 01773 828100

Technical helpline

Tel: 01773 828300







Subject to engineering changes

0020140414_01 - 02/12

GLOW-WORM

Nottingham Road,
Belper, Derbyshire.
DE56 1JT

www.glow-worm.co.uk

Because of our constant endeavour for improvement, details may vary slightly from those shown in these instructions.

Glow•worm