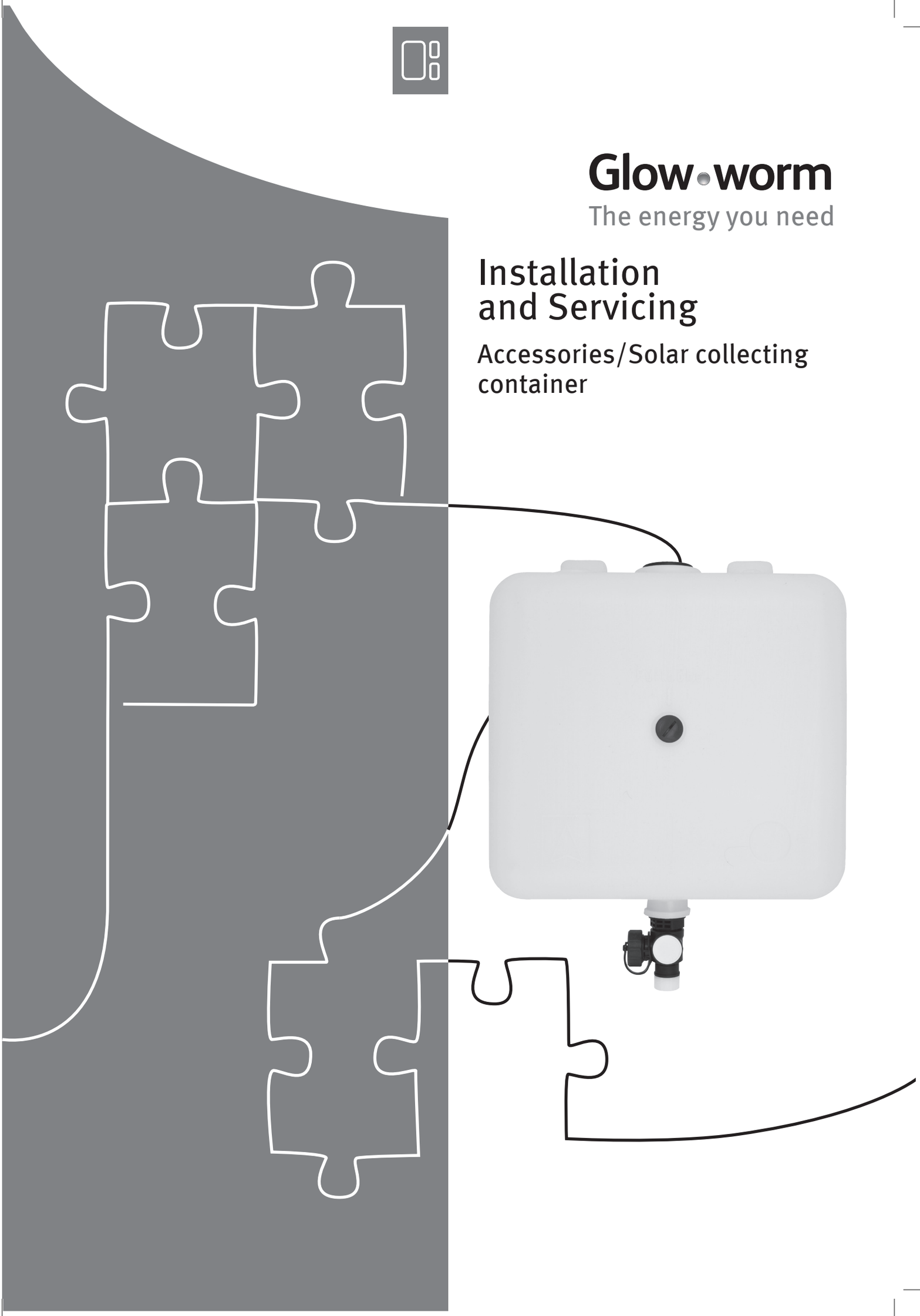
Glow-worm

The energy you need

Installation and Servicing

Accessories/Solar collecting container



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INTRODUCTION

1 Notes on the documentation

1.1 Symbols used

The symbols used in the text are explained below:

Symbol	Explanation
i	Symbol that denotes useful tips and information
-	Symbol for a required action

The warning notes are classified in accordance with the severity of the possible danger using the following warning signs and signal words.

Warning symbol	Signal word	Explanation
	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 Storing documents

- Pass these installation instructions and all other applicable documents to the system operator.

The system operator should retain these instructions and tools so that they are available when required.

2 Safety instructions and regulations

2.1 Intended use

The Glow-worm collecting container for solar use has been constructed using state-of-the-art technology in accordance with the recognised safety rules and regulations. Nevertheless, there is still a risk of injury and death to the user or others, or of damage to the unit or other property in the event of improper use for which it is not intended. Children must be supervised to ensure that they do not play with the unit.

The Glow-worm collecting container is specially designed for the operation of Glow-worm solar energy systems with hot water generation and heating support. The Glow-worm solar energy system is used as a solar energy system for solar heating support or hot water generation. The components in the solar circuit have been developed for use with Glow-worm solar fluid.

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 as improper. The manufacturer/supplier is not liable for any claims or damage resulting from improper use. The user alone bears the risk.

Intended use includes the following:

- observance of accompanying operating, installation and servicing instructions for Glow-worm products as well as for other parts of components of the system
- compliance with all inspection and maintenance conditions listed in the instructions.

2.2 Regulation and statutory requirements

2.2.1 Installation and settings

Installation, settings and maintenance and repairs to the collecting container must only be carried out by a recognised competent person who also assumes the responsibility for installing the unit properly and commissioning it for the first time.

We accept no liability for any damage caused by failure to observe these instructions.

- Install the collecting container as described in this installation manual.

2.2.2 Risk of scalding from hot solar fluid

Hot solar fluid may suddenly escape through the triggered expansion relief valve.

- Ensure that no one is put at risk from escaping hot solar fluid.
- Install a temperature-resistant discharge line from the expansion relief valve to the collecting container.
- Route the discharge line so that it slopes down to the collecting container.
- To secure the collecting container to the wall, use suitable wall plugs and bolts.
- Always wear protective clothing (protective goggles and gloves) when handling solar fluid.
- Avoid any contact with skin.

2.2.3 Risk of poisoning and chemical burns

Incorrect handling of chemicals may result in poisoning and chemical burn injuries.

- Handle chemicals with care.
- Observe the safety information regarding the solar fluid.

2.2.4 Damage caused by improper use and unsuitable tools

Use for which the container is not intended may lead to damage (e.g. water discharge)!

- In order to prevent leaks tighten or loosen threaded connections, with a suitable open-ended spanner - do not use pipe wrenches, extensions, etc. Incorrect installation may result in leaks.
- Do not suspend any loads from the pipework (e.g. clothing).

2.2.5 Regulations

- Observe the national regulations, standards, guidelines and laws.

3 Recycling and disposal

Both the Glow-worm collecting container and the associated transport packaging are made primarily of recyclable raw materials.

3.1 Recycling of packaging

- Sort the waste to separate those which can be recycled (cartons, plastics...) from those that cannot (strapping...).
- Recycle the appliance packaging according to all relevant regulations.

3.2 Recycling and disposal of the appliance and its components

Most of the appliance is made of recyclable materials.

- Do not dispose of your appliance or any of its accessories in the household waste.
- Make sure the old unit and any accessories are disposed of properly.

Observe all relevant regulations.

TECHNICAL DATA

4 Solar collecting container

Collecting container	Unit	Value
Dimensions (W x H x D)	mm	300 x 310 x 140
Weight	kg	0.97
Maximum filling volume	l	9.7
Temperature	°C	max. +95, short-term +120 Without liquid reserve
Compatibility	-	Water/ water glycol mixtures

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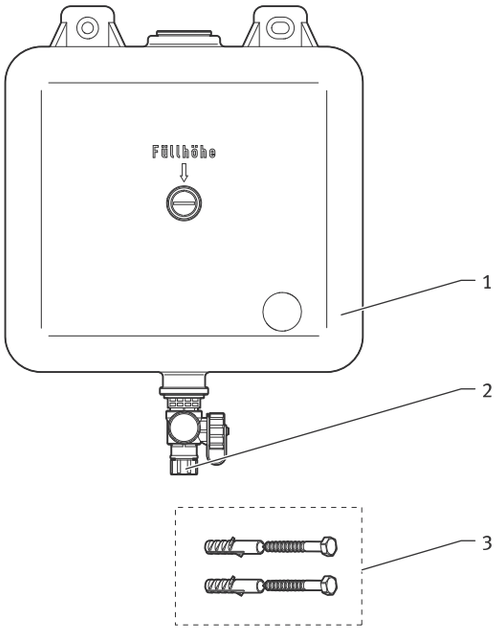
INSTALLATION

5 Installation

5.1 Scope of delivery



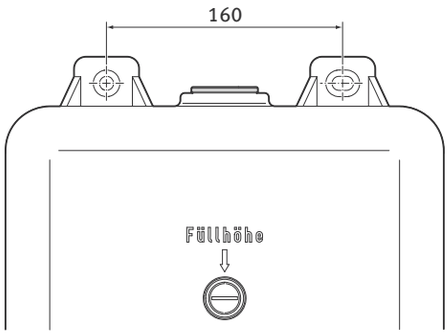
Pack contents

1	Collecting container for solar application	(1)
2	Drain valve with protective cap	(1)
3	Bolts and wall plugs	(2)

- Please check the contents of packs.

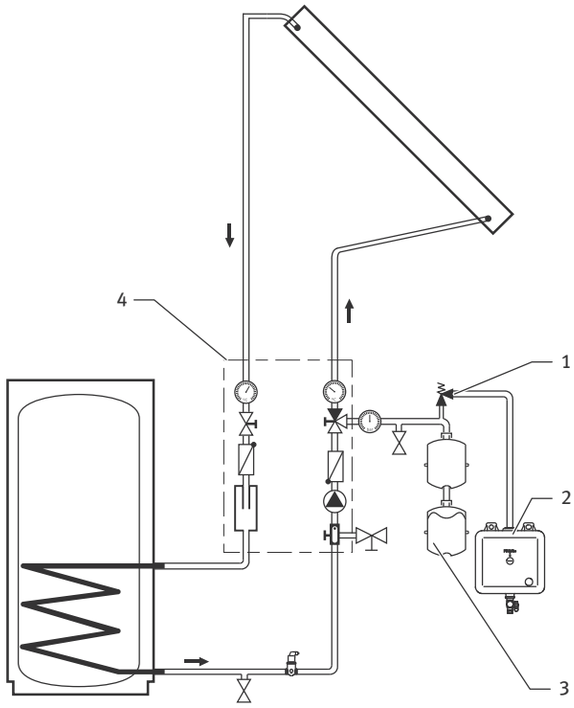
5.2 Fitting the collecting container

5.2.1 Securing the collecting container to the wall



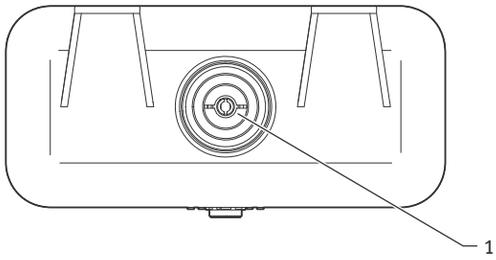
- Drill two holes, 160mm apart, into a load bearing wall.
- Secure the collecting container to the wall using wall plugs and bolts which are suitable for the type of wall.
- Check that the drain valve is closed and the sealing cap is attached.

5.3 Connecting the collecting container



Key:
1 Outlet side of the expansion relief valve
2 Collecting tank
3 Expansion vessel for solar application with auxiliary vessel
4 Solar pump unit

- Connect a heat-resistant pipe to the outlet side of the expansion relief valve, see 2.3 Hydraulic schematic, no. 1.
- Always lay the pipe so that it slopes down to the collecting container.



Key:
1 Opening for the discharge line

- Guide the free end of the pipe at least 10cm into the plastic bushing of the upper opening on the collecting container.

5.4 Filling/draining the collecting container

5.4.1 Filling the collecting container

- Fill the collecting conntainer with 1 litre (basic filling level) of frost-resistant liquid in order to prevent the container from overheating when the expansion relief valve is triggered.

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5.4.2 Draining the collecting container

The collecting container must be drained after the expansion relief valve has been triggered.

- Make sure that the solar fluid has cooled down before you drain the collecting container.
- Remove the safety cap from the expansion relief valve.
- Drain the collecting container into a vessel that is suitable for solar fluid.
- Dispose of the removed solar fluid correctly.

5.5 Maintenance

- At least once a year, check that the collecting container's basic filling level (1 litre) is correct.

5.6 Notes on the piping system

DANGER:
Risk of personal injury and material damage due to escaping hot solar fluid!
Hot solar fluid can damage plastic pipes and consequently escape.
- Use copper pipes.

Caution:
Press fittings that are not temperature resistant may damage the solar energy system! Press fittings must be designed for temperatures up to 200°C - otherwise, the press fittings may start to leak.
- Ask the manufacturer of the press fittings whether the press fittings are solar resistant.

6 Handing over to the operator

You must inform the operator of the unit about the handling and function of their collecting container.

- Provide the operator with all relevant instructions and unit documentation for safe-keeping.
- Go through the operating instructions with the operator.
- Answer any questions the operator may have.
- Draw special attention to the safety information which the operator must follow.
- Inform the operator of the necessity to ensure that the system is regularly inspected/maintained (inspection and maintenance contract).
- Make the operator aware of the need to keep the instructions near the collecting container.

7 Customer service

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.

To obtain service, please call your installer or Glow-worm's own service organisation on Tel: 01773 828100.

Subject to engineering changes

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

Glow-worm

The energy you need