

Buffer Vessel

Installation Instructions

60 litre



180 litre



**Buffer Vessel
for
heat pump systems**

Guarantee Registration

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 Guarantee.

This product is guaranteed for 24 months from the date of installation or 30 months from the date of manufacture, whichever is the shorter, for parts and labour.

The second year of the parts guarantee, from the beginning of the 13th month onwards after installation or manufacture, is conditional upon the appliance having been serviced by an approved, qualified installer,

in accordance with the manufacturer's recommendations. We strongly recommend regular servicing of your appliance, but where the condition is not met, any chargeable spare parts or components issued within the applicable guarantee period still benefit from a 12 month warranty from the date of issue by the manufacturer.

We recommend you 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 01773 828100.

Customer Service:

01773 828100

Technical Helpline:

01773 828300

General and Sales enquiries:

Tel. 01773 824639

Fax: 01773 820569

To register your Glow-worm product call:

0800 0732142

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 competent persons 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.

Visit www.centralheating.co.uk for more information.



These instructions must be handed to the user on completion of the installation.

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WARNINGS

Metal Parts

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

Sealed Components

Under no circumstances must the user interfere with or adjust sealed parts.

Important Information

General

Further documents apply in combination with this installation manual.

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

Installation, commissioning and maintenance to the unit must only be carried out by a **competent person**.

Control of Substances Hazardous to Health

Under Section 6 of The Health and Safety at Work Act 1974, we are required to provide information on substances hazardous to health.

The adhesives and sealants used in this appliance are cured and give no known hazard in this state.

Frost protection

The vessel must be completely drained if it is to be shut down for a long period of time in an unheated room (winter holidays etc), unless the heat pump circuit contains the necessary amount of glycol antifreeze (available as a G-w accessory)

Documents

All installation manuals of the components of the installation must be observed when installing a closed hot water central heating system. These installation manuals are included with the individual parts of the installation and the ancillary components.

Please pass this installation manual on to the owner of the system in order for him or her to store it so that it is available whenever it is required.

Manual Handling

With regards to the "Manual Handling Operations, 1992 Regulations", the product exceeds the recommended weight for a one man lift.

Statutory Requirements

Testing and Certification

This buffer vessel is tested and certificated for safety and performance. It is, therefore, important that no alteration is made to the vessel, without permission, in writing, by Glow-worm.

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

CE Mark

The CE mark on the buffer vessel indicates that it complies with the basic requirements of the applicable directives.

IMPORTANT

Where no British Standards exists, materials and equipment should be fit for their purpose and of suitable quality and workmanship.

The installation of this buffer vessel must be carried out by a **competent person**.

Manufacturer's instructions must not be taken as overriding statutory requirements.

Statutory Requirements

In GB, the installation of the buffer vessel must comply with the requirements of the current issue of the following regulations:

- Electricity at work act.
- Health and safety at work act
- Relevant Utility supplier's regulations.
- Water regulations and by-laws.
- Environment agency and local council requirements regarding bore holes, water courses, or noise levels.
- Gas safety installation and use regulations concerning any associated gas fired heat source used within the heating system.
- Building regulations part "L" and directives concerning energy saving
- Building regulations such as G3 covering Hygiene and L8 Legionella.
- COSHH regulations
- Other relevant bodies such as HETAS and OFTEC

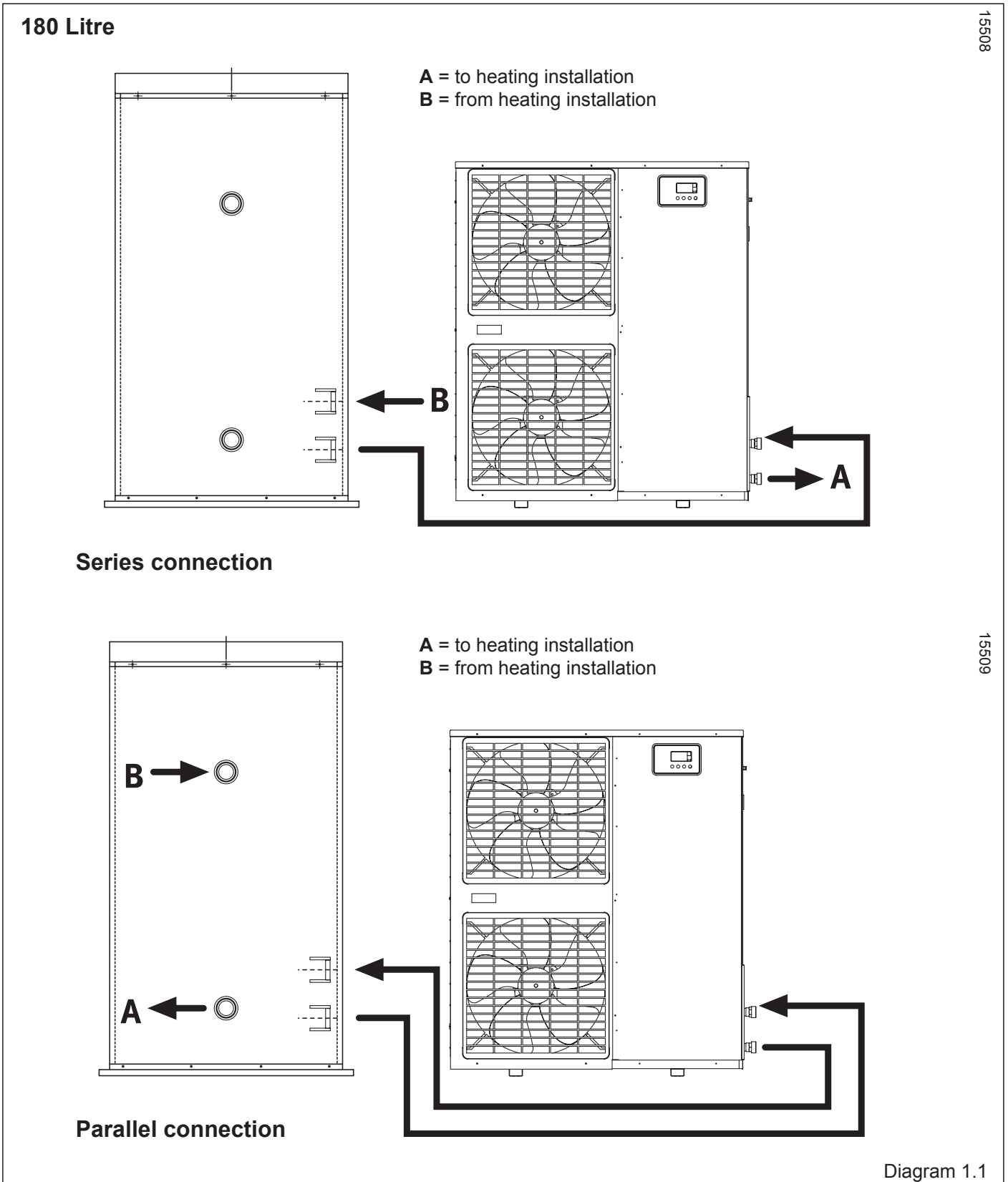
1 Installation

1.1 Description

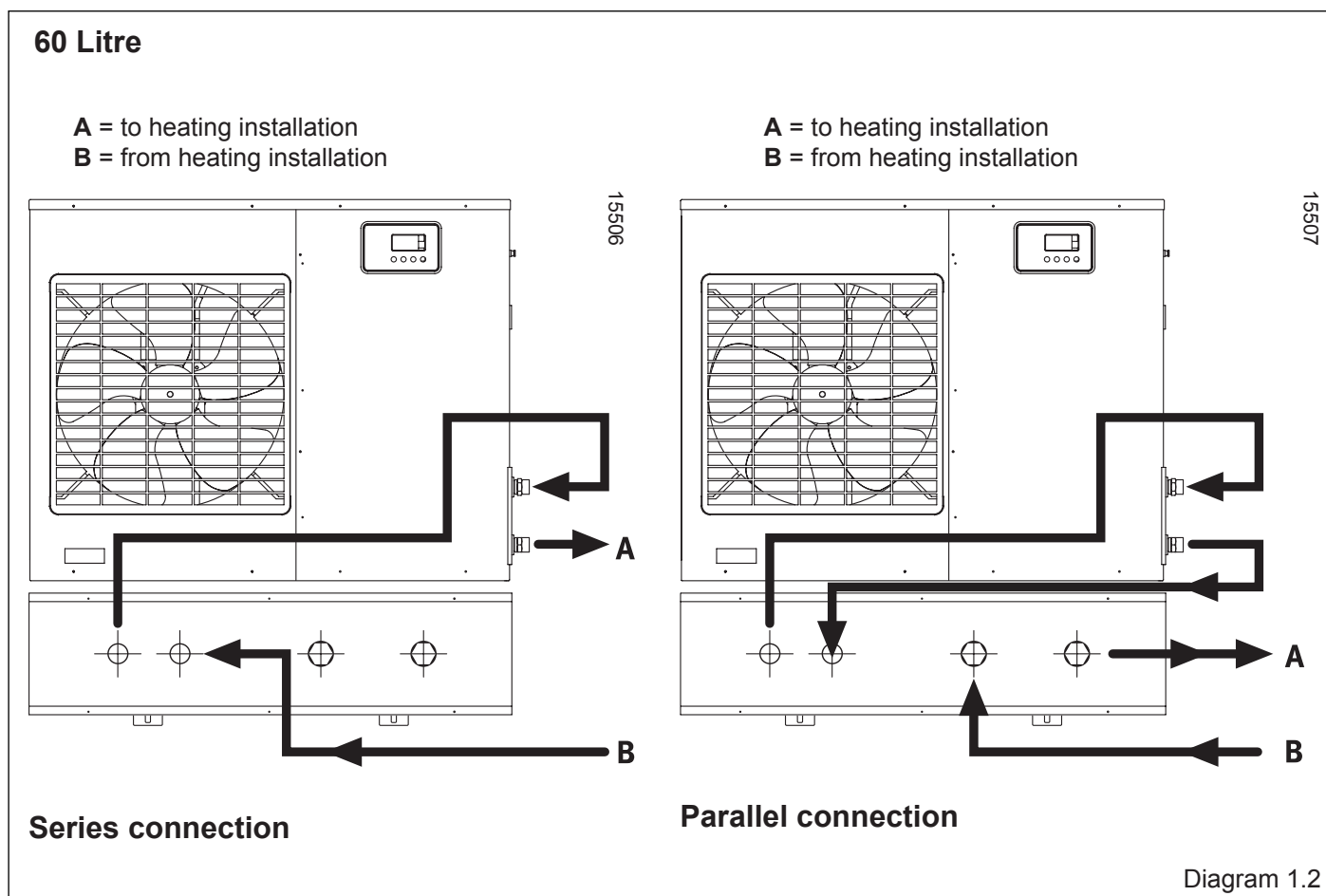
The buffer vessel is fed with hot water from the heat source and is used as intermediate storage for hot water that can be used when required, by the heating circuit, see diagrams 1.1 and 1.2.

The buffer vessel is made of steel and is provided with a mild steel outer casing.

NOTE: The vessel is intended for use on central heating systems providing space heating. Provision for domestic hot water supply via a heat exchanger or cylinder, must not be connected to the outlet side of the vessel.



1 Installation



1.2 Site requirements

IMPORTANT: To prevent frost damage to the buffer vessel and damage caused by escaping water, do not install the vessel in rooms that are liable to freezing.

Make sure that the floor is level and strong enough to support the weight of the buffer vessel in its full condition (see Section 2, Technical Data).

Install the buffer vessel as close as possible to the heat pump, to minimise heat losses. Choose the installation location so that running and connecting the pipes is practicable. Lag all the pipes with thermal insulation to prevent energy losses.

1.3 Clearances

When installing, make sure there is adequate clearance to the walls, so that assembly and maintenance work can be carried out.

1.4 Unpacking and installing the unit

The Glow-worm buffer vessel is delivered in a packing case with a separate mini pallet for ease of handling. The feet of the buffer vessel are secured to the pallet during transit.

Remove the bolts from the feet of the vessel and discard. Transport the buffer vessel to its final installation location. Position the buffer vessel, always ensuring good access to the hydraulic connections.

2 Technical Data

2.1 Identification plate

The identification plate is fitted on the side of the outer casing, please quote reference numbers when ordering spare parts

2.2 Buffer vessel

The buffers are primarily intended for internal use. The buffer vessel is available in two sizes 180 and 60l nominal capacity.

2.4 Safety valves

NOTE: These buffers are fitted with pressure relief valves as standard, which are positioned within the casing and will have to be connected to a suitable drain point where the units are fitted indoors.

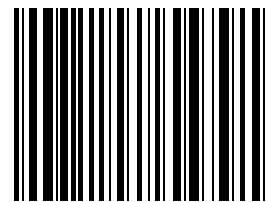
2.3 Technical Data

Description	Units	60 litre	180 litre
Overall height	mm	330	1284
Overall length	mm	1190	754
Overall depth	mm	500	633
Weight, unfilled	kg	53	95
Weight, filled	kg	110	275
Vessel capacity	l	60	180
Permissible operating pressure	bar	3.0	3.0
Max. permissible temperature	°C	95	95
Connection sizes (series)	inches	2 x 1¼M	2 x 2”M
Connection sizes (parallel)	Inches	2 x 1½ M	2 x 2½” M
Packaged dimensions	mm	1198 x 568 x 486(h)	715 x 765 x 1419(h)
Packaged Weight	kg	65	106

3 Disposal

3.1 Disposal

Both your Glow-worm buffer vessel and its associated packaging consist mainly of recyclable raw materials. The buffer vessel, nor any of its accessories, belong in the household waste. Make sure the old unit and any accessories are disposed of properly. The transport packaging will be disposed of by your installer.



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

Glow-worm, Nottingham Road, Belper, Derbyshire. DE56 1JT