



INSULATION

PLATE HEAT EXCHANGER 60 - 1200 KW

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.





WEEE DIRECTIVE 2012/19/EU
Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in a corresponding recycle centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.



The code of practice for the installation, commissioning & servicing of central heating systems



Section 1 - Introduction

These insulation kits are suitable for the following PLATE HEAT EXCHANGER:

Boiler Size	Model
60 kW	DN50, DN65, DN80
150 kW	DN50, DN65, DN80
300 kW	DN65, DN80, DN100
450 kW	DN80, DN100
600 kW	DN100
750 kW	DN100, DN150
900 kW	DN100, DN150
1200 kW	DN150

IMPORTANT: All models 600 kW and above must have lifting lugs removed before the insulation is installed.

1.1 INTRODUCTION

The insulation kit is made from black silicone coated e-glass cloth (outer) and mineral rock fibre (inner) and consists of modular insulation sections, which are combined to encase the Plate Heat Exchanger body and flow/return pipework. These sections are secured together using a combination of hook and loop tape and tie fastenings.

1.2 INSULATION KIT

60kW insulation kits will consist of 3 components: PHEX body insulation jacket (1), lower return pipework insulation (2) and upper flow pipework insulation (3). All other kits will consist of 5 components: PHEX body insulation jacket (1), lower return pipework insulation (2), upper flow pipework insulation (3), and 2x flange covers (A).

Note: The flow pipework insulation piece has split tabs to allow installation around the auto air vent.

1.3 KIT CONTENTS

1. Body jacket
2. Lower pipework insulation & flange cover
3. Upper pipework insulation & flange cover

Note: 60 kW insulation does not come with flange cover.

1



A



2



3



A



2.1 PHEX BODY JACKET

⚠ WARNING: Before commencing installation of the insulation, make sure that both the flow and return pipe spools are securely fastened onto the Plate Heat Exchanger and cascade frame & header kit.

1. Place the body jacket (1) over the Plate Heat Exchanger, making sure that the flanges are through their corresponding gaps.
2. Make sure that the body jacket is secured below the flanged connections with the hook and loop tape attached to the smaller flange strap (refer to Fig. 2).
3. Push the two flat tabs (large tab first) under the body of the Plate Heat Exchanger and secure the hook and loop tape strip (refer to Fig. 3).



FIGURE 1 - Body jacket (Flat layout)

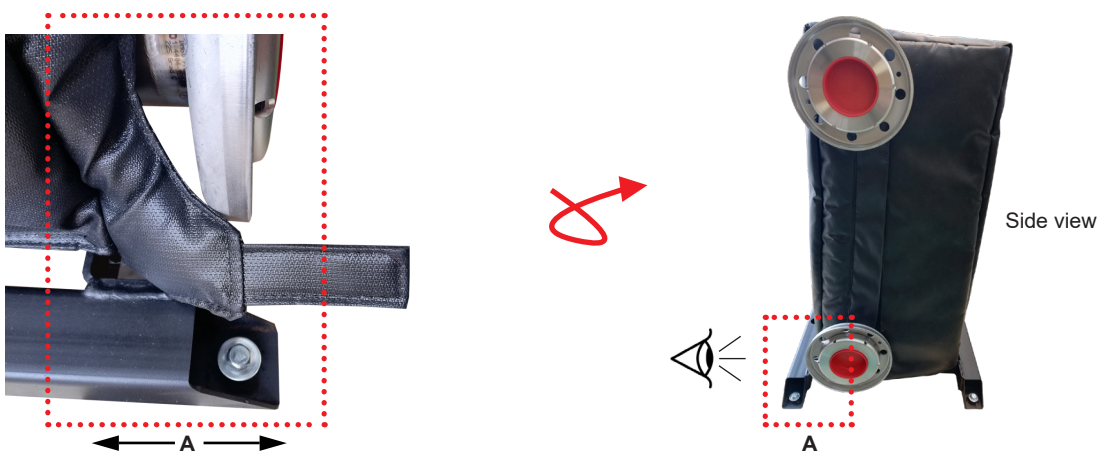


FIGURE 2 - Body jacket base (Flange strap)

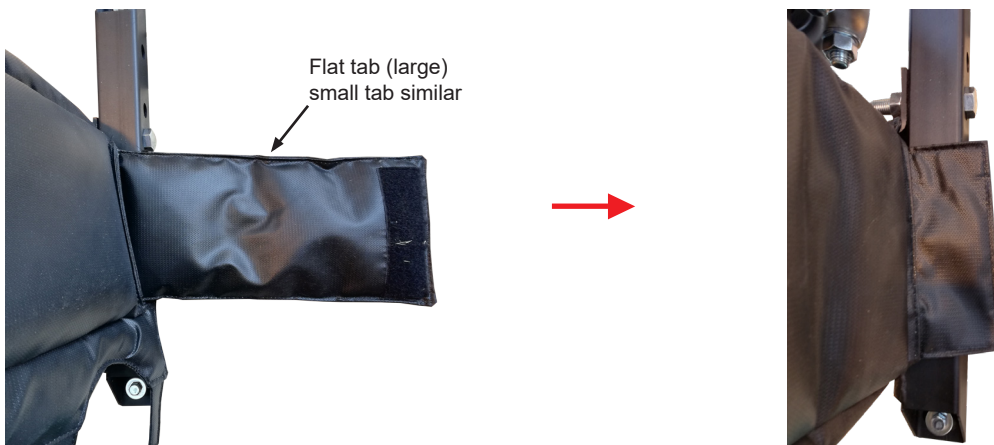


FIGURE 3 - Body jacket base

2.2 LOWER RETURN PIPE

1. Lay the lower insulation (2) flat with the hook and loop tape running from top to bottom.

Note: At the bottom, the edge (90 degrees to the hook and loop taped edge) should be visibly wider when compared to the top.

2. Install the lower insulation (2) on the furthest point of the lower return pipework, and the narrower edge on the end of the pipework closer to the PHEX body. The hook and loop tape will run vertically along the pipework.

Note: This component does not have any draw cords.

3. Position flange cover A horizontally (as shown in Fig. 5). Wrap this component around the flange connecting the pipe to the Plate Heat Exchanger body and secure by tying the cords from opposite end of the insulation piece together tightly.
4. Both items can be rotated around on the pipe so that the cords are kept underneath the pipework for tidiness, as shown.

Note: 60kW insulation kits are not supplied with flange covers (component A).



FIGURE 4 - Lower return pipework insulation (Flat layout)

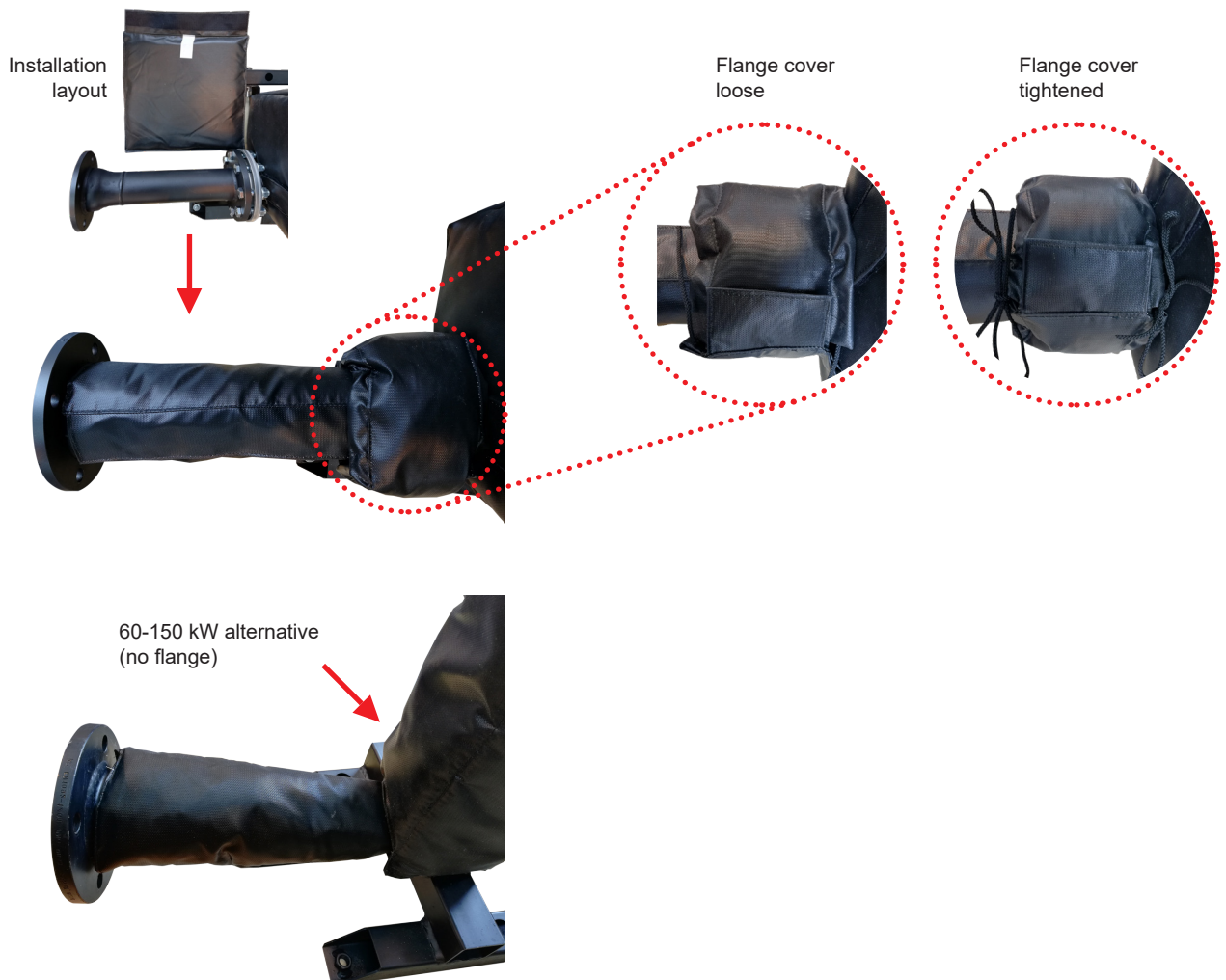


FIGURE 5 - Lower return pipework (Installed)

2.3 UPPER FLOW PIPE

1. Position the upper insulation (3) with the additional tie cord/hook and loop (hook and loop fastening on 750 kW and above) at the top end, to be positioned around the air vent.

Note 1: This insulation component cannot be rotated.

2. Position flange cover A horizontally (as shown in Fig. 5). Wrap this component around the flange connecting the pipe to the Plate Heat Exchanger body and secure by tying the cords from opposite end of the insulation piece together tightly.
3. The flange cover can be rotated around on the pipe so that the cords are kept underneath the pipework for tidiness, as shown.

Note 2: 60kW insulation kits are not supplied with flange covers (component A).



FIGURE 6 - Upper flow pipework (flat layout)

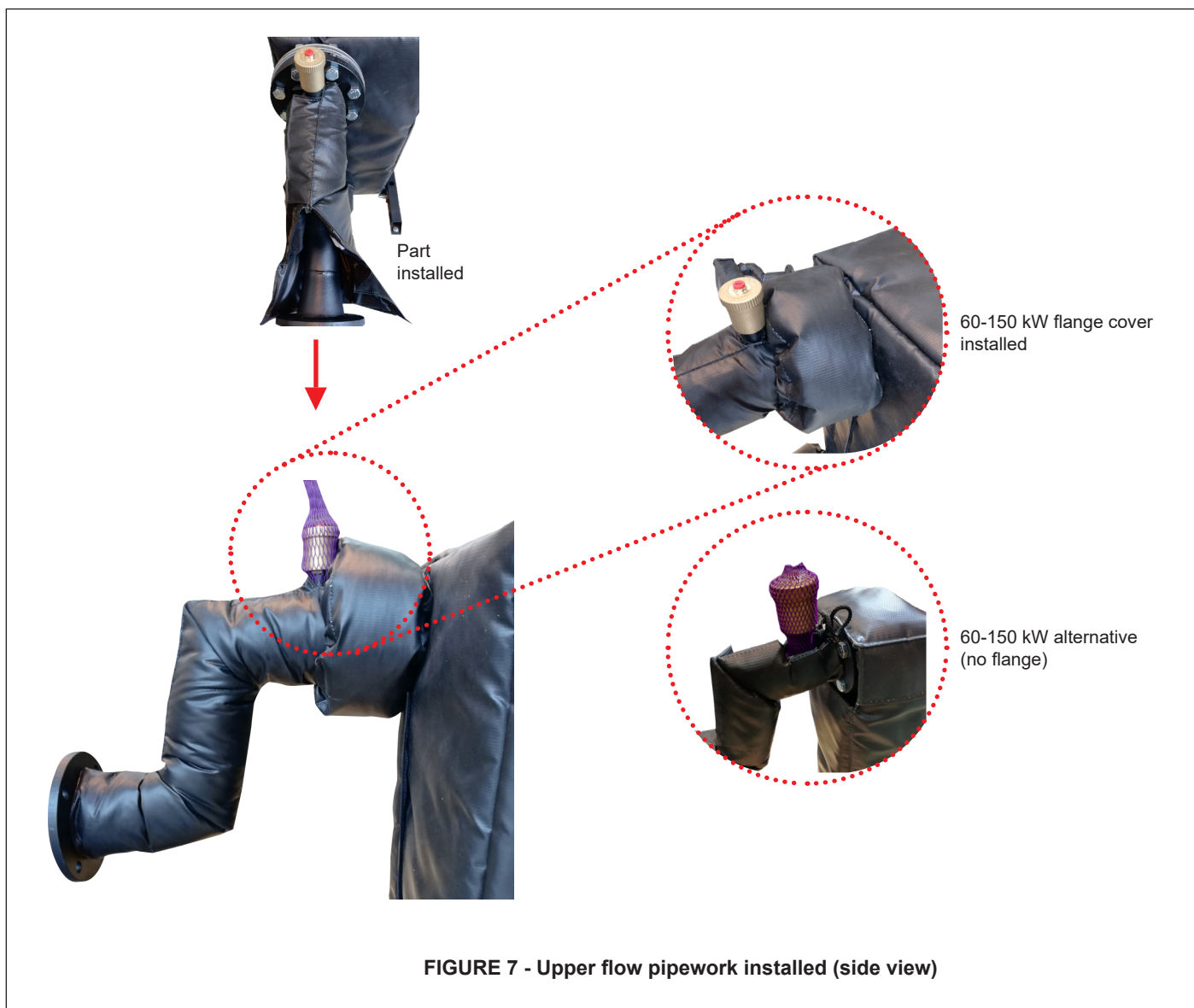


FIGURE 7 - Upper flow pipework installed (side view)

Section 2 - Installation



FIGURE 8 - Complete installation



At Ideal Heating we take our environmental impact seriously, therefore when installing any Ideal Heating product please make sure to dispose of any previous appliance in an environmentally conscious manner. Households can contact their local authority to find out how. See <https://www.gov.uk/managing-your-waste-an-overview> for guidance on how to efficiently recycle your business waste.

Technical Training

Our Expert Academy offer a range of training options designed and delivered by our experts in heating. For details please visit: expert-academy.co.uk

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