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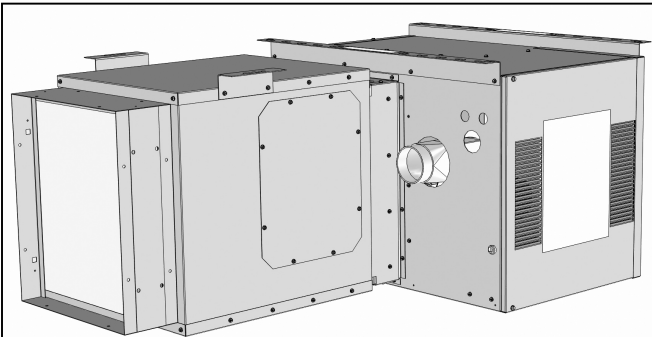
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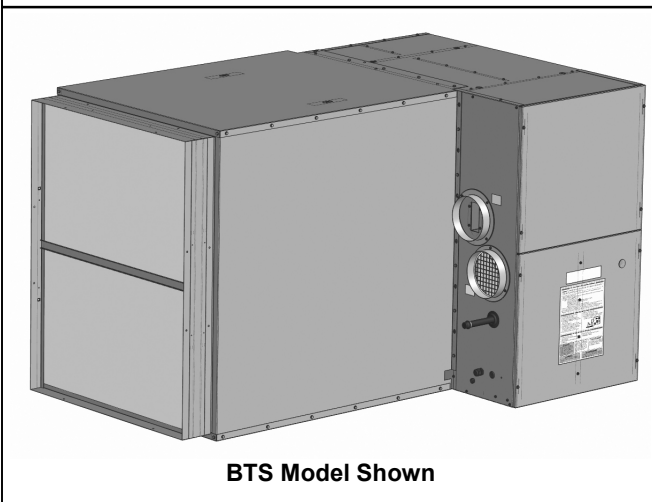
INSTALLATION INSTRUCTIONS

blower enclosure and filter rack models HDB, HDC, BTP, BTS

BLOWER ENCLOSURE, FILTER RACK ASSEMBLY



HDB Model Shown



BTS Model Shown

WARNING

Gas supply shall be shut-off and the electrical power disconnected before proceeding with the installation. Failure to do so could result in fire, explosion, electrical shock, or the unit starting suddenly resulting in injury.

IMPORTANT

1. The use of this manual is specifically intended for a qualified installation and service agency. All installation and service of these kits must be performed by a qualified installation and service agency.
2. These instructions must also be used in conjunction with the Installation and Service manual originally shipped with the appliance being converted, in addition to any other accompanying component supplier literature.

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THIS MANUAL IS THE PROPERTY OF THE OWNER.
PLEASE BE SURE TO LEAVE IT WITH THE OWNER WHEN YOU LEAVE THE JOB.

INSTALLATION – BLOWER ENCLOSURE

BLOWER ENCLOSURE

Model Application

The blower enclosure is designed for use with blower unit heaters to serve as an air inlet plenum for the attachment of a filter rack and/or duct work. Installation of the enclosure is easiest when done before the heater is installed.

Assembly/Installation

The recommended procedure for assembly and installation is described as follows:

1. Attach the left and right blower enclosure side panels to the blower enclosure bottom panel as shown in Figure 2.1 for HDB/HDC models or Figure 2.2 for BTP/BTS models using the #10 x ½" self drilling screws supplied.
2. Attach the top blower enclosure panel to the left and right blower enclosure panels from Step 1 using the #10 x ½" self drilling screws supplied. Refer to Figure 2.1 or 2.2 for correct position.
3. **For HDB/HDC models**, attach the two top mounting brackets to the right and left sides through the flanges on the top panel from Step 2 using the #10 x ½" self drilling screws supplied. Refer to Figure 2.1 for correct position.
4. **For BTP/BTS model**, use the existing blower mounting brackets.
5. Attach the blower motor access panel to the side panel with access opening with the #10 x ½" self drilling screws supplied. Refer to Figure 2.1 or 2.2.

Figure 2.1
Blower Enclosure Exploded View (HDB/HDC)

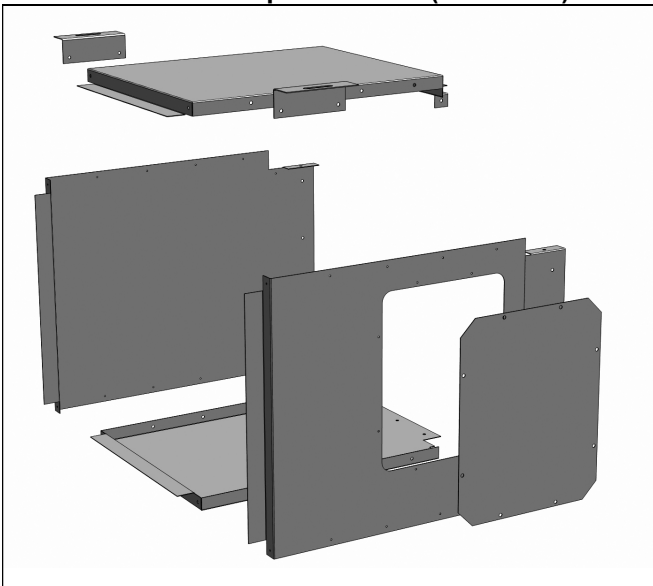
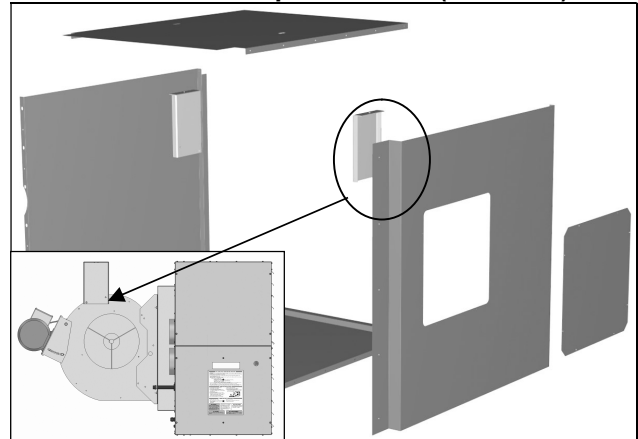


Figure 2.2
Blower Enclosure Exploded View (BTP/BTS)



Note: Existing blower mounting bracket changes shown applies to model sizes 150, 350, and 400 only. All other model sizes use the existing blower housing mounting bracket.

6. **For HDB/HDC models**, slide the assembly from Steps 1-5 over the blower and motor and secure the top and bottom panel mounting flanges to the blower assembly mounting flanges using #10 x ½" screws supplied. Refer to Figures 2.3 and 2.4.

Figure 2.3 – Blower Enclosure to Unit Attachment – Top View (HDB/HDC)

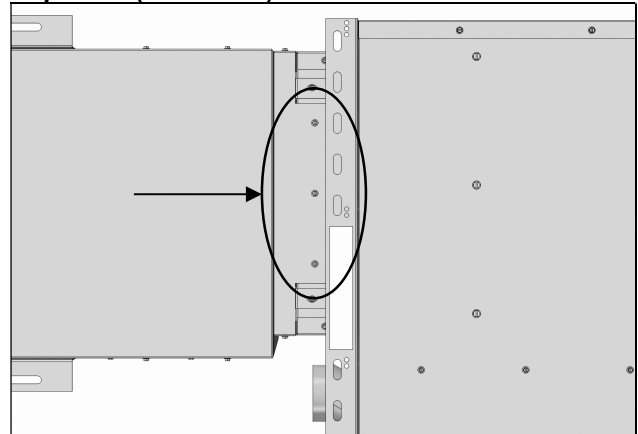
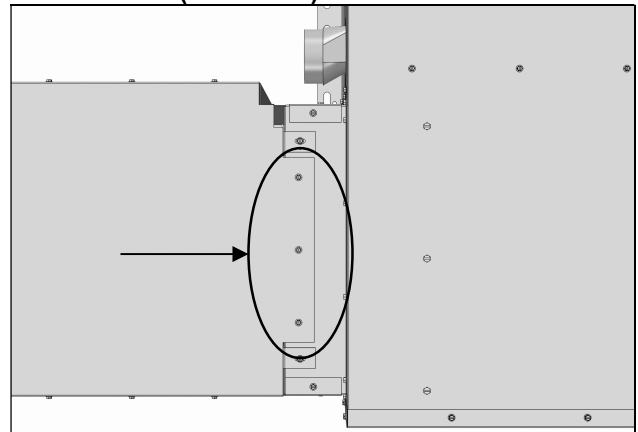


Figure 2.4 – Blower Enclosure to Unit Attachment – Bottom View (HDB/HDC)



INSTALLATION – BLOWER ENCLOSURE

7. For **BTP/BTS models**, slide the assembly from Steps 1-5 over the blower and motor and secure the top and bottom panel mounting flanges to the unit casing top and bottom panels using #10 x 1/2" screws supplied. Refer to Figures 3.1 and 3.2.

Figure 3.1 – Blower Enclosure to Unit Attachment – Top View (BTP/BTS)

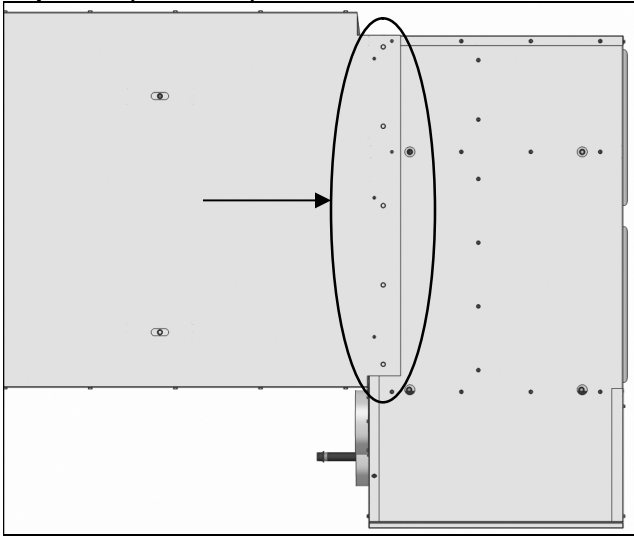
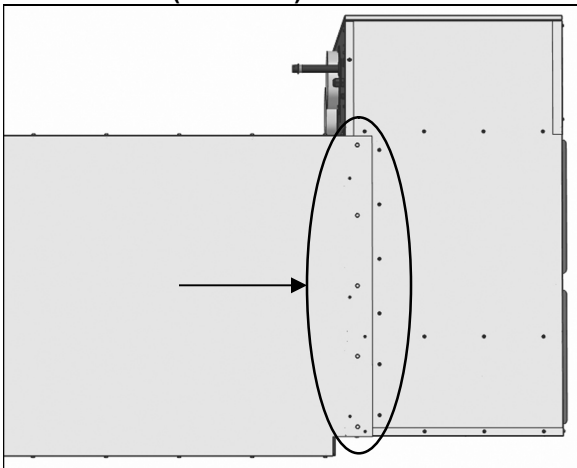
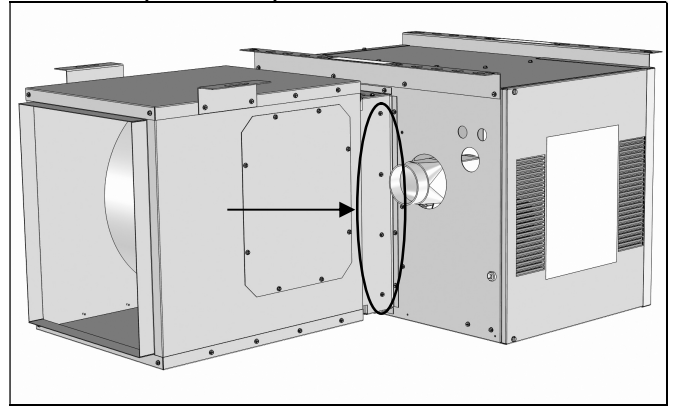


Figure 3.2 – Blower Enclosure to Unit Attachment – Bottom View (BTP/BTS)



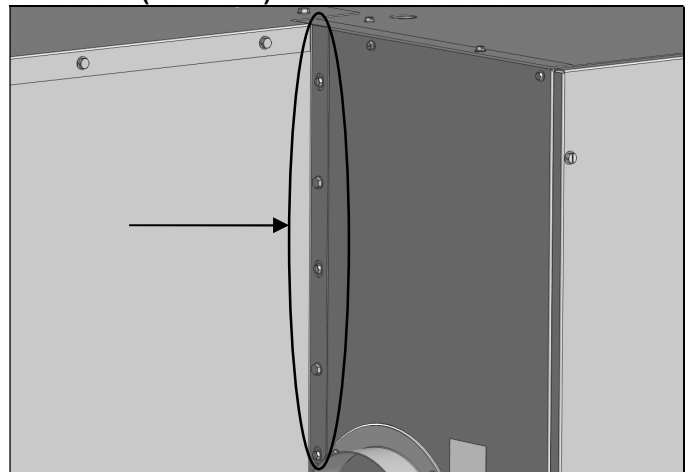
8. For **HDB/HDC models**, secure the side panel mounting flanges to the blower assembly mounting flanges using #10 x 1/2" screws supplied. Refer to Figure 3.3 for proper placement.

Figure 3.3 – Blower Enclosure to Unit Attachment – Side View (HDB/HDC)



9. For **BTP/BTS models**, secure the side panel mounting flanges to the back of the unit casing using #10 x 1/2" screws supplied. Refer to Figure 3.4 for proper placement.

Figure 3.4 – Blower Enclosure to Unit Attachment – Side View (BTP/BTS)



10. Install the unit and blower enclosure assembly per the Installation and Service Manual that shipped with the blower unit heater model and install 3/8" threaded rod through the top blower enclosure mounting brackets to provide additional support for the enclosure.

INSTALLATION – FILTER RACK

FILTER RACK

Model Application

The filter rack is designed for use with installed blower unit heaters with a factory supplied blower enclosure kit installed (see previous section). The filter rack includes a 1" cleanable filter and serves to filter incoming air to the heater.

Assembly/Installation

The recommended procedure for installation is described as follows:

1. The filter rack is shipped factory assembled with a 1" filter. Remove the filter access panel and filter.
2. Determine from which side the filter is to be serviced. Hold filter rack over flanges of blower enclosure and drill 1/8" diameter holes using the holes in the filter rack as a template. Fasten with #10 x 1/2" sheet metal screws. Refer to Figure 4.1 or 4.2.

Figure 4.1 – Filter Rack Installed on Blower Enclosure (HDB/HDC)

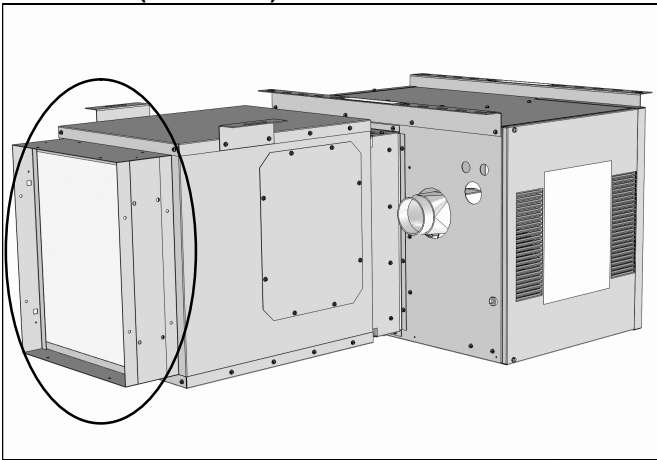
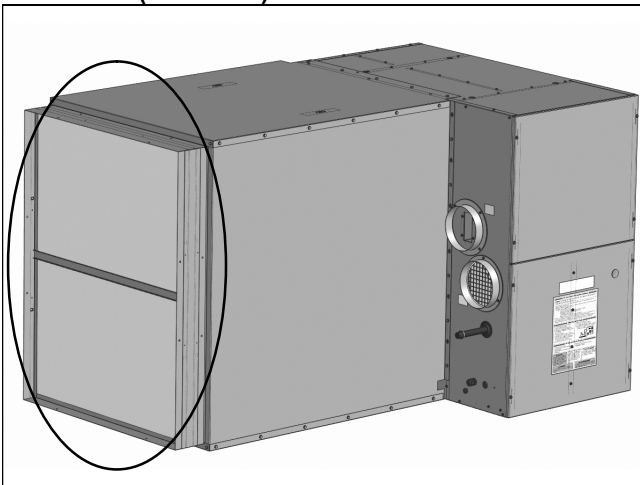


Figure 4.2 – Filter Rack Installed on Blower Enclosure (BTP/BTS)



Modine Manufacturing Company has a continuous product improvement program, and therefore reserves the right to change design and specifications without notice.