

INSTALLATION INSTRUCTIONS

FACTORY INSTALLED DOWNFLOW ECONOMIZER ACCESSORY MODEL 503280/9712/503285

FOR 3 THRU 12.5 TON SINGLE PACKAGE EQUIPMENT

Step 1:

Verify all unit parts in box.

- 1 ea. - Hood Package:
 - 1 ea. - Barometric Relief Hood
 - 1 ea. - Barometric Relief Damper
 - 1 ea. - Fresh Air Hood
 - 1 ea. - Hardware Bag:
 - 54 ea. - Type A #10 - 16 x 1/2 Screws
 - 14 ea. - Self tapping #10 - 16 x 1/2 Screws
 - 2 ea. - Seal Tight #10 - 32 x 1/2 Screws w/ washers
 - 4 ea. - Filter Clips
 - 18 ea. - #8 Tinnerman Clips
 - 10 ft. - 1/8 x 1/2 Gasket
 - 11 ft. - 1/8 x 3/4 Gasket



Step 2:

After removing the hood kit, be sure and replace screws, on both sides, installed at the factory to secure the shipping strap. Failure to replace screws will result in rainwater being drawn into the unit and the conditioned space.

Step 3:

Remove the return air duct cover and the two (2) rear panels from the end of the unit as shown. Keep screws to use later in Step 9. **Note:** Tinnerman clips have been supplied in case holes in the side flanges of the unit have been stripped. Attach (14) clips to the two side flanges as shown in figure.



Step 4:

Remove the Discharge Air Sensor and the Enthalpy Control from the return air damper and save for later installation (Step 5). (**Omit step for Belimo Actuator**).

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Step 5:

To assemble the fresh air hood the following will be needed.

- 34 ea. - Type A #10 - 16 x ½ Screws
- 4 ea. - Filter Clips
- 2 ea. - Seal Tight #10 - 32 x ½ Screws w/ washers
- 5 ft. - ⅛ x ½ Gasket

Follow these steps:

- A. Take (1) and (2) and use the 2 Seal Tight screws with washers and screw through (2) into (1) and tighten. **(Omit step for Belimo Actuator).**
- B. Take (3 & 4) and screw through (2) into (3 & 4) using the Type A screws.
- C. Take (5 & 6) and screw through (7) into (5 & 6) using the Type A screws.
- D. Take (8) and put to the inside of (2 & 7) and secure with Type A screws.
- E. Take (9) and place tabs into slots of (2 & 7) and bend tabs down on the outside of (2 & 7).
- F. Take (10) and place flanges with the three holes over (2 & 7) and secure with Type A screws.
- G. Take (11) and secure to (2, 7, 10) with Type A screws.
- H. Take filter clips and screw to (9 & 10) with Type A screws.
- I. Place gasket on the back flanges of (2, 7, 8, 10)
- J. Install filters in the hood and fasten clips to hold in place.

Set Fresh Air Hood to the side for use in Step 8.

Step 6:

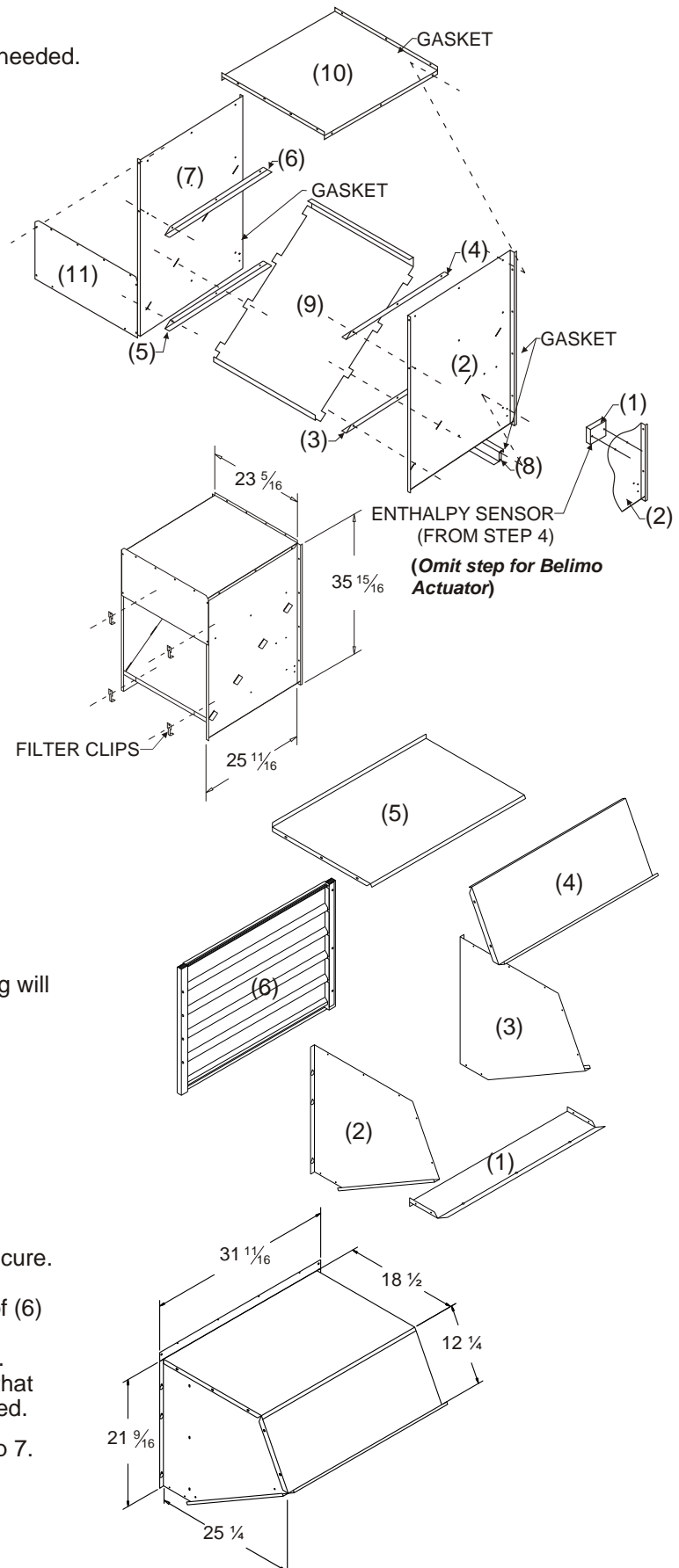
To assemble the Barometric Relief Hood the following will be needed.

- 20 ea. - Type A #10 - 16 x ½ Screws
- 5 ft. - ⅛ x ½ Gasket
- 11 ft. - ⅛ x ¾ Gasket

Follow these steps:

- A. Take (1 and 2) put the flange of (1) to the inside of (2) and screw in place.
- B. Take (3) and screw in place like step A.
- C. Take (4) and place flanges over (2 and 3) and secure.
- D. Take (5) and do the same as step C.
- E. Take ⅛ x ¾ gasket and place around perimeter of (6) to seal between damper section and hood.
- F. Take (6) and slide inside of (2 and 3) and secure.
- G. Place ⅛ x ½ gasket on flanges on (1, 2, 3 and 5) that attach to the face of the economizer when installed.

Set Barometric Relief Hood to the side for use in Step 7.



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Step 7:

Install the assembled Barometric Relief Hood as shown. Using the "keyhole" slots on the barometric relief hood, place the barometric relief hood over the screws and slide down into the slots and tighten screws in place. Attach (4) tinnerman clips to the top flange of the Barometric Relief Hood as shown in figure.

This is the time to tighten all screws that were previously not tightened.

HOLES IN TOP FLANGE
FOR TINNEMAN CLIPS

FLANGE ON HOOD SIDE

Step 8:

Install the assembled Fresh Air Hood as shown using #10 - 16 x ½ self tapping screws. Place fresh air hood approximately 3" down from top of the unit and flush with flange on hood side. Route wire to Enthalpy Control in the lower right hand corner of the Fresh Air Hood as shown. Connect the "violet" wire to the "+" terminal and the "blue" wire to the "S" terminal. **(Omit enthalpy control for Belimo Actuator).**



OMIT FOR BELIMO ACTUATOR



TOP REAR PANEL

Step 9:

Reinstall the top rear panel which was removed in Step 3 of the unit using some of the screws removed in Step 3.