

INSTALLATION INSTRUCTIONS

FIELD INSTALLED
0-100% MOTORIZED FRESH AIR DAMPER, HORIZONTAL
MODEL 2MD04703724

FOR 3 THRU 12.5 TON SINGLE PACKAGE EQUIPMENT

General

The instruction provides all the necessary information to properly field install this 0-100% Motorized Fresh Air Damper on the above indicated equipment.

Refer to the respective unit wiring diagram for information regarding electrical circuitry on the economizer.



PANELS TO BE REMOVED



FRESH AIR DAMPER

Step 1:

Verify all unit parts in box.

- a. 1 ea. - Fresh Air Damper
- b. 1 ea. - Hood Package
 - 1 ea. - Fresh Air Hood
 - 1 ea. - 22" x 30 $\frac{1}{8}$ " x 1" Mist Eliminator Filter
 - 1 ea. - Hardware Bag:
 - 21 ea. - Type A #10 - 16 x $\frac{1}{2}$ Screws
 - 4 ea. - Self tapping #10 - 16 x $\frac{1}{2}$ Screws
 - 18 ea. - #8 Tinnerman Clips
 - 10 ft. - $\frac{1}{8}$ x $\frac{1}{2}$ Gasket



HOOD PACKAGE

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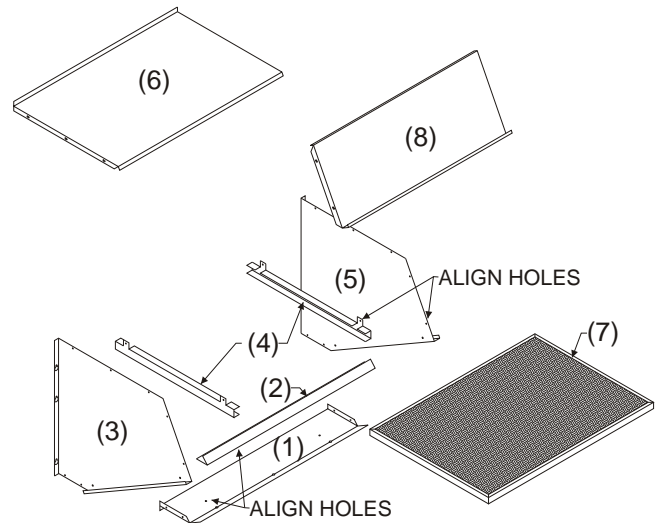
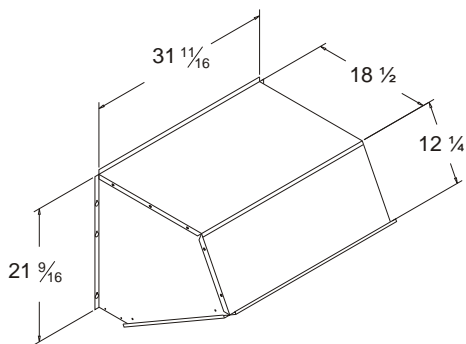
Step 2:

To assemble the Fresh Air Hood use the Type A #10 - 16 x 1/2 screws (Qty 21) provided.

Follow these steps:

- A. Take (1) put align holes of (2) with holes of (1) and screw in place.
- B. Take (3 & 5) and align holes of (4) with holes of (3 & 5) and screw in place.
- C. Take (1 & 3) put the flange of (1) to the inside (2) and screw in place.
- D. Take (5) and screw in place like Step C.
- E. Take (6) and place flanges over (3 & 5) and secure.
- F. Slide filter (7) into (4).
- G. Take (8) and do the same as Step E.

Set Fresh Air Hood to the side for use in Step 10.



Step 3:

Remove the two (2) rear panels from the end of the unit as shown. Keep screws to use later in Steps 4 and 7. **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.



REAR PANELS REMOVED



Step 4:

Slide the fresh air damper into the unit as shown using some of the screws removed in Step 3.

Do Not tighten screws at this time.

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0-100% MOTORIZED OUTSIDE AIR CABLE

Step 5:

Plug the 0-100% motorized fresh air damper cable into the unit as shown. The "jumper" plug that ships with the unit should be removed and saved in the control compartment for

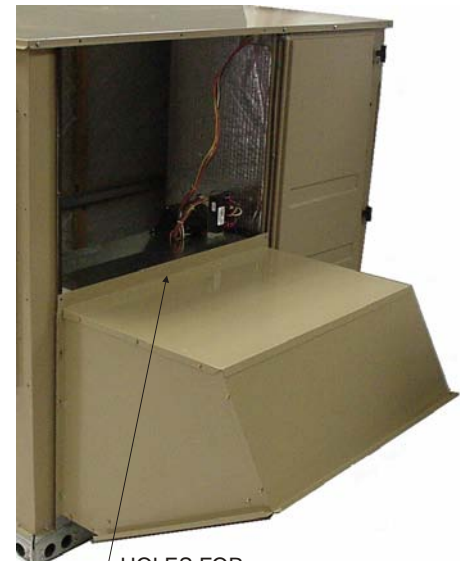
Step 6:

Install the assembled Fresh Air 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 Barometric Relief Hood as shown in figure.

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

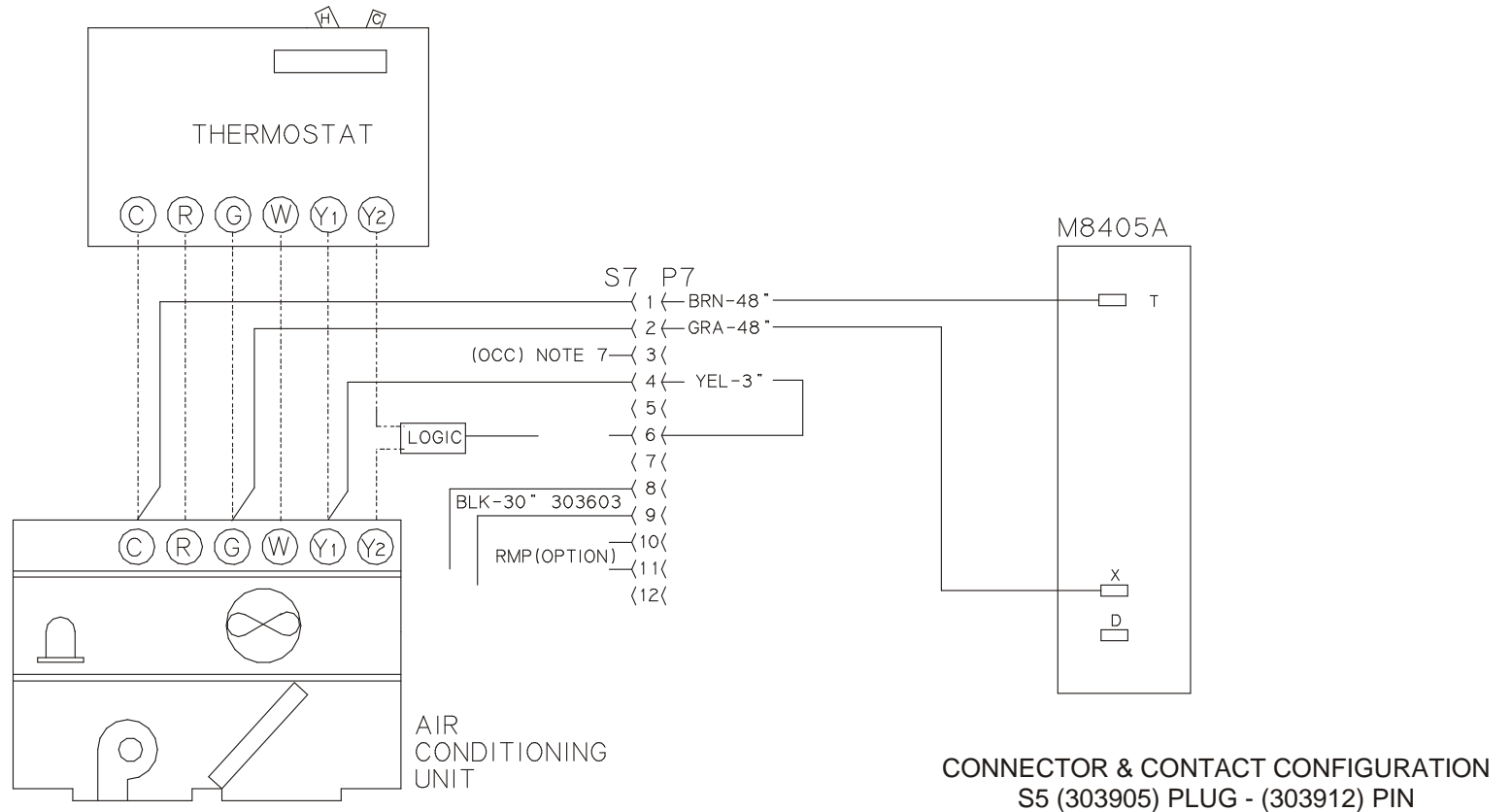
Step 7:

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



HOLES FOR
TINNERMAN CLIPS

E# = WIRE END DESIGNATION E2 STUD #6 18 Ga. Wire E3 Female ¼ Quick Disc. E4 Male ¼ Quick Disc. Insul E6 Wire Nut Size 73B	HARNESS ENDS AT (P7) FRESH AIR PLUG	COMPONENT CODE Economizer S7 Unit Plug (Male) P7 Fresh Air Plug (Female) M8405A Damper Actuator 24V	WIRE COLOR CODE BLK Black BRN Brown GRA Gray YEL Yellow



Notes: 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring. 2. Y2 must be energized for the compressor to operate.	0-100% Motorized Fresh Air Damper 2MD04703724	
	Rooftop Systems, Inc. 2405 McIver Lane Carrollton, Texas 75006 Phone (972) 247-7447 Fax (972) 243-0940	Date: September 8, 2009 Supercedes: Drawn by: Unit # 80-302-29BC Diagram# 30229BCW