

INSTALLATION INSTRUCTIONS

FIELD INSTALLED DOWNFLOW OR HORIZONTAL END RETURN ECONOMIZER ACCESSORY MODEL 2EE04707424 / 2EE04707624

1187809-UAI-A-1014 (RSI FORM# YKIGES29)

FOR 3 THRU 12.5 TON SINGLE PACKAGE EQUIPMENT APPLICATIONS WITH / WITHOUT AN ENERGY RECOVERY VENTILATOR

General

The instruction provides all the necessary information to properly field install this economizer on the above indicated equipment.

Economizer Model 2EE04707424 / 2EE04707624 has a single input solid state enthalpy sensor that provides automatic 100% outdoor air capability.

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

Step 1:

Verify all unit parts in box.

- 1 ea. - Damper Assembly
(including Actuator & SSE Module)
- 1 ea. - Barometric Relief Hood
- 1 ea. - Fresh Air Hood w/ Filter
- 1 ea. - Hardware Bag
 - 18 ea. - Screws #10 - 16 x 1/2 Type A
 - 24 ft. - Gasket 1/8 x 1/2
 - 18 ea. - Clip U Type Nut

Step 2:

Remove the horizontal duct cover and the two (2) rear panels from the end of the unit as shown in **Figure 1**. Retain horizontal duct cover, rear panels, and screws to be used in later Steps.



HORIZONTAL DUCT COVER WITH
COVER AND END PANELS REMOVED

Figure 1

Step 3:

Slide the damper assembly into the unit as shown in **Figure 2**.



Figure 2

Step 4:

Plug the economizer cable into the unit as shown in **Figure 3**. The "jumper" plug that ships with the unit should be removed and saved in the control compartment for future needs.



Figure 3

INSTALLATION INSTRUCTIONS

FIELD INSTALLED DOWNFLOW OR HORIZONTAL END RETURN ECONOMIZER ACCESSORY MODEL 2EE04707424 / 2EE04707624

1187809-UAI-A-1014 (RSI FORM# YKIGES29)

Step 5:

Slide the damper assembly until it is flush with the unit as shown in **Figure 4**.

DO NOT secure damper assembly to unit at this time.



Figure 4

Step 6:

Reinstall the horizontal duct cover that was removed in **Step 2**, with the screws that were also removed in **Step 2**.

Step 7:

For installing the Discharge Air Sensor, open the access door to the blower compartment and locate the cables on the left side with two wires with insulated connectors as shown in **Figure 5**.



DISCHARGE AIR SENSOR WIRES

Figure 5

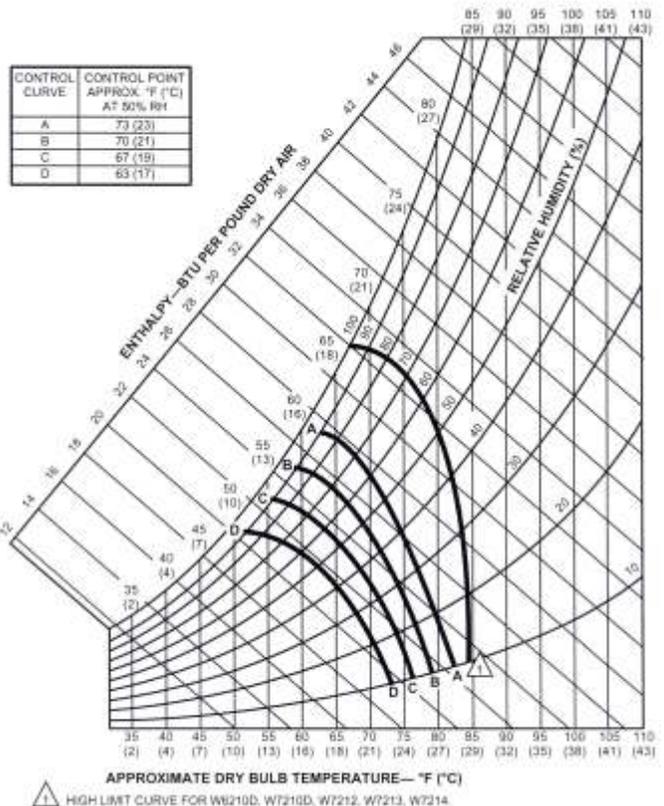
Step 8:

Plug the Discharge Air Sensor into the two wires with insulated connectors inside the unit, and using a wire tie, strap the Discharge Air Sensor to the cable as shown in **Figure 6**.



DISCHARGE AIR SENSOR

Figure 6



INSTALLATION INSTRUCTIONS

FIELD INSTALLED DOWNFLOW OR HORIZONTAL END RETURN ECONOMIZER ACCESSORY MODEL 2EE04707424 / 2EE04707624

1187809-UAI-A-1014 (RSI FORM# YKIGES29)

Step 8:

Using the screws that were removed in **Step 2**, install the assembled Barometric Relief Hood in the place that the lower rear panel was located as shown in **Figure 7**.



Figure 7

Step 10:

Using the screws that were removed in **Step 2**, install the assembled Fresh Air Hood in place that the upper rear panel was located as shown in **Figure 9**.



Figure 9

Step 9:

Using the screws that were shipped with the economizer, install lower rear panel that was removed in **Step 2** and secure to Barometric Relief Hood as shown in **Figure 8**.



Figure 8

Step 11:

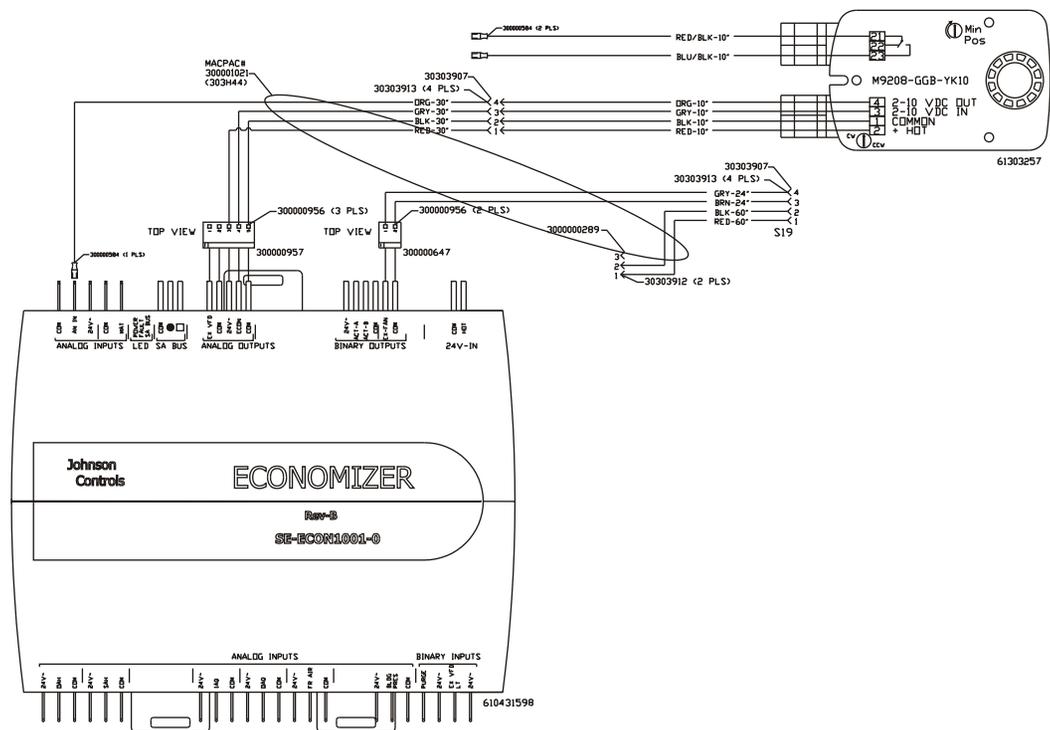
Using the screws that were shipped with the economizer, install upper rear panel that was removed in **Step 2** and secure to Fresh Air Hood as shown in **Figure 10**.



Figure 10

| HARNESS DETAIL | COMPONENT CODE | WIRE COLOR CODE | Revision | Change | Date |
|----------------|----------------|-----------------|----------|--------|------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|-----|--------|-----|--------|
| BLK | Black | BLU | Blue |
| BRN | Brown | GRN | Green |
| GRY | Gray | ORN | Orange |
| RED | Red | TAN | Tan |
| VIO | Violet | WHT | White |
| YEL | Yellow | | |



Notes:
 1. Unit wiring shown as reference only. Check unit wiring for actual unit wiring.

Gear - Modulating Economizer Return Damper
 2EE04707424 / 2EE04707624

| | |
|---|------------------------|
|  1825 Diplomat Drive Carrollton, Texas 75006 Phone: (972) 247-7447 Fax: (972) 243-1940 | Date: October 31, 2014 |
| | Supersedes: |
| | Drawn by: MGL |
| | Unit #: 80-368B-29 |
| | Diagram#: 80368B29W |
| Approved by: | |