

# ACCESSORY KIT INSTALLATION INSTRUCTIONS

## ECONOMIZER ACCESSORY

### MODEL 2EE04709324

## FOR SINGLE PACKAGE GAS/ELECTRIC AIR CONDITIONERS 3 - 6 TON EQUIPPED WITH SIMPLICITY LITE CONTROLS

### General

This instruction provides all the necessary information to properly field-install an economizer on the above indicated equipment.

Economizer Model **2EE04709324** has a single input electronic enthalpy sensor provides automatic 100% outdoor air capability.

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

### Parts List:

- 1 ea. - Assembled Rainhood
- 1 ea. - New Filter Bracket
- 1 ea. - Temperature Sensor
- 1 ea. -  $\frac{7}{8}$ " Heyco Bushing
- 4 ea. - Screw - 10-16 x  $\frac{1}{2}$  Tek
- 6 ea. - Screw - 10-16 x  $\frac{1}{2}$  AB Ser
- 7 ft. - Gasket -  $\frac{1}{8}$ " x  $\frac{1}{2}$ "
- 2 ea. - Wire Ties

### Installation

Install this economizer per the following procedures.

1. Remove filter section access panel, outdoor air cover, and return air cover from the unit. Discard return air cover only, keeping the six (6) sealing screws for later use.

**Note: When operating the unit with side air discharge applications, the side duct covers may be discarded and the bottom supply and return duct covers must remain secured in place. When operating the unit with down air discharge applications, the bottom duct covers may be discarded and the side supply and return duct covers must remain secured in place.**

2. Before installing the damper assembly into the unit, the following steps must be performed.
  - a. Remove the  $\frac{7}{8}$ " knockout in the divider baffle.
  - b. On the side opposite the damper motor, attach the divider baffle (positioned downward) to the damper assembly frame with two (2) #10 screws provided. Refer to **Figures 1A, 1B, and 1C**. Use the top most hole on each end of the damper frame for mounting this baffle. The  $\frac{7}{8}$ " knockout hole in the divider baffle must be toward the same end as the damper motor.

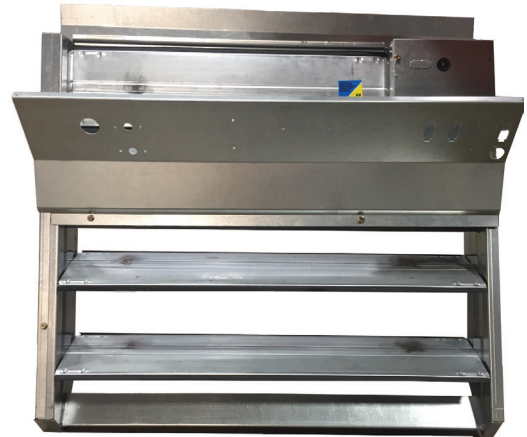


Figure 1A

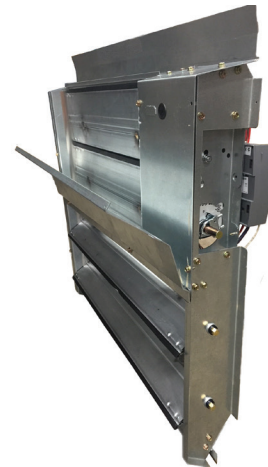


Figure 1B



Figure 1C

- c. Locate square opening in evaporator partition (**Figure 2**), cut away insulation and insert discharge air sensor bulb (with bracket) through this opening.

Secure sensor to partition with screws provided. Sensor leads will be connected to the controller at a later time.

**Note:** Sensor may be more easily inserted into the evaporator partition by access through the side return air duct opening (providing there is no ductwork installed).



Figure 2

- d. Drill a 1/4" clearance hole at dimple A and remove the gasketed screw from position B shown in **Figure 3**.



Figure 3

- e. Remove existing top filter bracket and replace with new filter bracket from kit. Reattach smoke detector wires before attaching the bracket from the kit. (**Figure 4**)
3. Insert the damper assembly into the filter section. Flex divider baffle downward so that the assembly will slide into place. Slide onto flange of the filter rack at the top and bottom of the filter compartment.



Figure 4

4. Secure the divider baffle to the unit duct panel in hole of position (B) using the gasketed screw removed in **Step 2 (e)** and one of the gasketed screws removed in **Step 1**. **See Figure 3**.
5. Connect enthalpy harness SE1/PE1 above divider baffle.
6. Remove plug with yellow jumper from unit and plug in harness.
7. Route discharge air sensor wires through 7/8" Heyco bushing and insert bushing into knockout hole from **Step 2 (a)**.
8. Route the leads from the discharge air sensor installed in **Step 2 (c)** through the knockout hole in the motor support channel and attach to SAT terminal on the controller. Install the two wire ties on the underside of the divider baffle to support the sensor leads.
9. Adjust all sensor leads to be slack at the terminals but away from moving parts or sharp edges and insert the appropriate strain relief bushings in the unit duct panel, the divider baffle and the motor support channel.
10. Place provided 1/8" x 1/2" gasket on flanges of assembled rainhood as shown in **Figure 5**. Attach assembled rainhood to the unit.

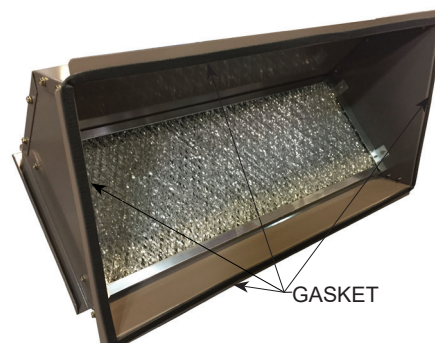


Figure 5

11. Replace unit air filters.
12. Replace the filter section access panel.
13. Replace return air cover.



Figure 5

