

# ACCESSORY KIT INSTALLATION INSTRUCTIONS

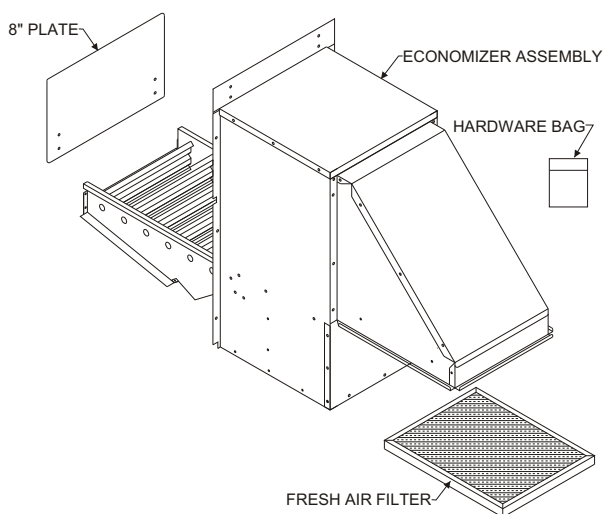
## 2EE04705324 Economizer Installation Instructions

### General

This instruction provides the necessary information to properly field-install economizer dampers and hood assembly on 1.5 through 5 ton single package rooftop units.

The damper accessory provides the return air and outdoor air dampers and actuator for economizer operations. Contained in this kit are all rain hood components.

### Kit Includes



- 1 - Economizer Assembly w/ Filter
- 1 - 8" Plate for Use on 4 and 5 Ton Units
- 1 - Hardware Bag
  - 12 ea - No. 10 x 1/2" Self-drilling Screws
  - 5 ea - Tie Wraps
  - 1 ea - Terminal Block with Wire Harness
  - 10 ft - Gasket 1/8" X 1/2"
  - 4 ft - Gasket 3/4" x 1 1/4"

### Tools Required

- 5/16" hex socket driver
- screwdriver, Phillips-head
- screwdriver, small flat-blade

### Installation For Cooling Only And Heat Pump Units.

1. Disconnect the power supply.
2. Use a 5/16" nut driver to remove the two bottom screws securing the electrical/filter access panel as shown in Figure 2. Remove the electrical/filter access panel.

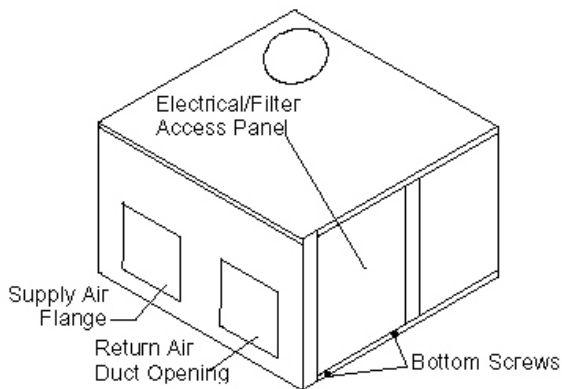


Figure 2: Fan Access Panel

3. Use a 5/16" nut driver and remove the four screws securing the Return Air (RA) cover plate as shown in Figure 3. Remove the RA cover plate and discard.

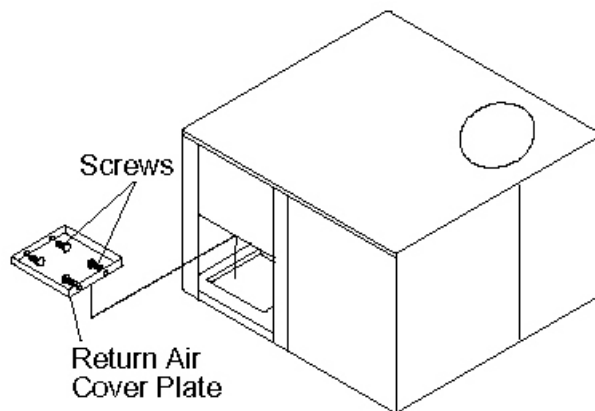


Figure 3: Removing Cover Plate

4. Remove the 1/2" knockout from the coil support bracket. The discharge air sensor will be routed through this hole.
5. Place the economizer near the unit. Remove the discharge air sensor from the coiled wires and route it through the knockout removed in Step 4.
6. Secure the discharge air sensor to the coil support bracket with No. 10 x 1/2" screws.
7. Install the gasket material to the duct panel on each side of the return air opening as shown in Figure 4.
8. Place 3/4" x 1 1/4" gasket around the inside perimeter of the bottom return air opening.

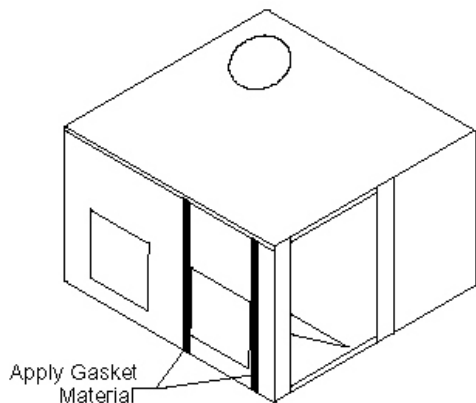


Figure 4: Installing Gasket

9. Lift and slide the economizer assembly into the horizontal return air opening of the unit. Slide the top of the economizer assembly in the space between the unit top and side so that the top edge fits under the top lip of the unit. Make sure return dampers fit into bottom return opening as shown in Figure 5.

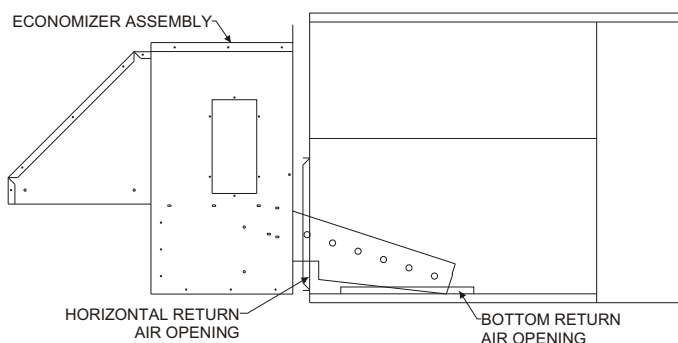


Figure 5: Installing Economizer

**Note: The economizer unit will be held in place except on 4 and 5 ton units, which require the 8 inch plate to be installed at the top of the unit.**

10. Secure the economizer assembly to the unit using eight No. 10 x 1/2" screws. Two screws through the existing holes in the flanges on each side and the six additional screws through the pilot holes provided in the economizer housing.
11. Uncoil the wiring harness tucked into the economizer unit.
12. Place the terminal block in the open area at the predrilled holes as shown in Figure 6. Secure using two screws provided with the terminal block.
13. Route the wire harness from the economizer assembly through the grommet in the back of the control box. Once through the grommet route the wires behind the existing controls to the previously installed terminal block. Connect the wires to the terminal block as shown in Figure 14.

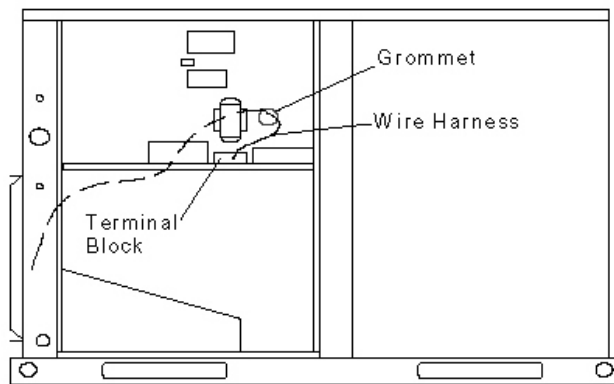


Figure 6: Installing Terminal Block

14. Connect wires from the terminal block to (TB1) on the unit control board as shown in Figure 14.
15. Apply the wiring diagram to the lower left corner inside of the control box.
16. If the unit is 208/230 single phase, the 40 VA transformer must be replaced with a 75 VA transformer No. 025-25973-000 and circuit breaker No. 024-24055-000. (Furnished with kit No. 2EC06700124.) All 3-phase units have the 75 VA transformer standard.
17. Apply power to the unit and verify damper operation through at least three cycles.
18. Replace the electrical/filter access panel.

#### Installation For Cooling Units With Gas Heat.

1. Disconnect the power supply.
2. Use a 5/16" nut driver to remove the two top and three bottom screws securing the fan access panel as shown in Figure 7. Remove the fan access panel.

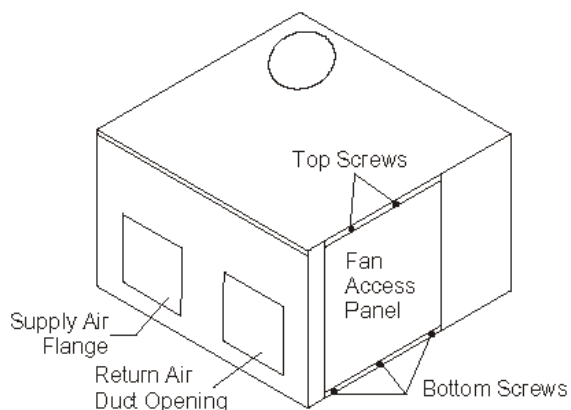


Figure 7: Fan Access Panel

3. Use a 5/16" nut driver and remove the four screws securing the Return Air (RA) cover plate as shown in Figure 8. Remove the RA cover plate and discard.

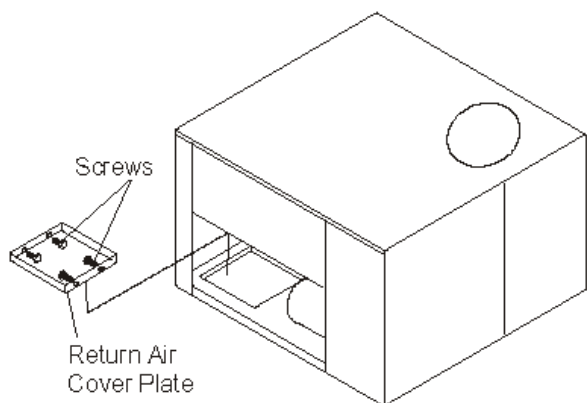


Figure 8: Removing Cover Plate

4. Remove the ½" knockout from the coil support bracket. The discharge air sensor will be routed through this hole later.
5. Place the economizer near the unit. Remove the discharge air sensor from the coiled wires and route through the hole in the evaporator partition and the knockout in the coil support bracket.
6. Secure the discharge air sensor to the down shot duct flange.
7. If a filter and filter rack are already installed in the unit, remove the filter.
8. Install the gasket material to the duct panel on each side of the return air opening as shown in Figure 9.

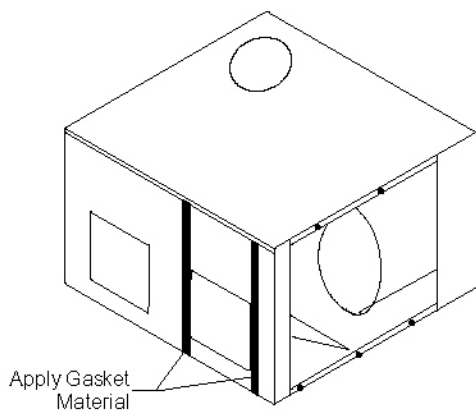


Figure 9: Installing Gasket

9. Place ¾" x 1 ¼" gasket around the inside perimeter of the bottom return air opening.
10. Lift and slide the economizer assembly into the horizontal return air opening of the unit. Slide the top of the economizer assembly in the space between the unit top and side so that the top edge fits under the lip of the unit. Make sure return dampers fit into the bottom return opening as shown in Figure 10.

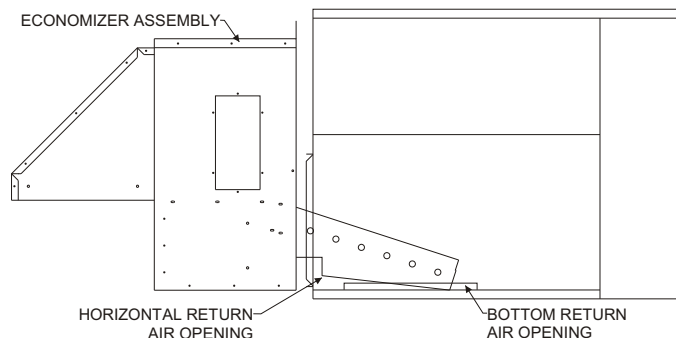


Figure 10: Installing Economizer Unit Assembly

**Note: The economizer unit will be held in place except on 4 and 5 ton units, which require the 8 inch plate to be installed at the top of the unit.**

11. Secure the economizer assembly to the unit using eight No. 10 x ½" screws. Two screws through the existing holes in the flanges on each side and the six additional screws through the pilot holes provided in the economizer housing.
12. Uncoil the wiring harness tucked into the economizer unit.
13. Install three tie wraps along the bottom of the heat coil box as shown in Figure 11.

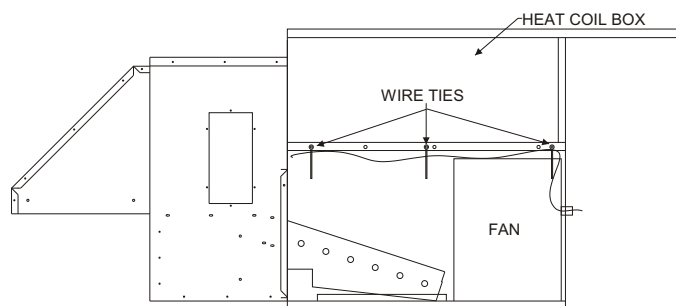


Figure 11: Installing Tie Wraps

14. Remove the two bottom screws securing control cover to the unit as shown in Figure 12. Remove the control cover from the unit.
15. Place the terminal block in the open area at the predrilled holes as shown in Figure 13. Secure using two screws provided with the terminal block.
16. Remove the grommet holding the fan wires passing through the panel between the fan and control box.
17. Route the wire harness from the economizer assembly along the lower edge of the heat coil box, using the tie wraps installed in Step 13. Then route the wire harness through the grommet removed in Step 16 and reinstall the grommet.

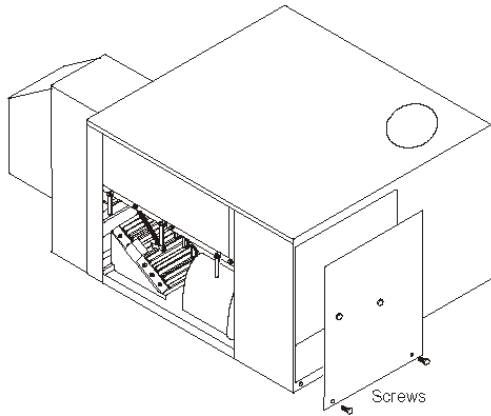


Figure 12: Removing Control Cover

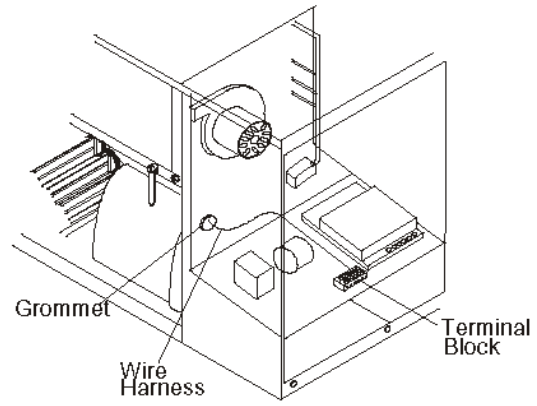


Figure 13: Installing Terminal Block

18. Route the wire harness behind the existing controls to the previously installed terminal block. Connect the wires to the terminal block as shown in Figure 14.
19. Connect the wires from the terminal block to (TB1) on the unit control board as shown in Figure 14.
20. Apply the wiring diagram to the lower left corner inside of the control box cover.
21. Transformer must be replaced with a 75 VA transformer No. 025-25973-000 and circuit breaker No. 024-24055-000. (Furnished with kit No. 2EC06700124.) All 3-phase units have the 75 VA transformer standard.
23. Apply power to the unit and verify damper operation through at least three cycles.
24. Replace air filter, fan access and control box cover panels.

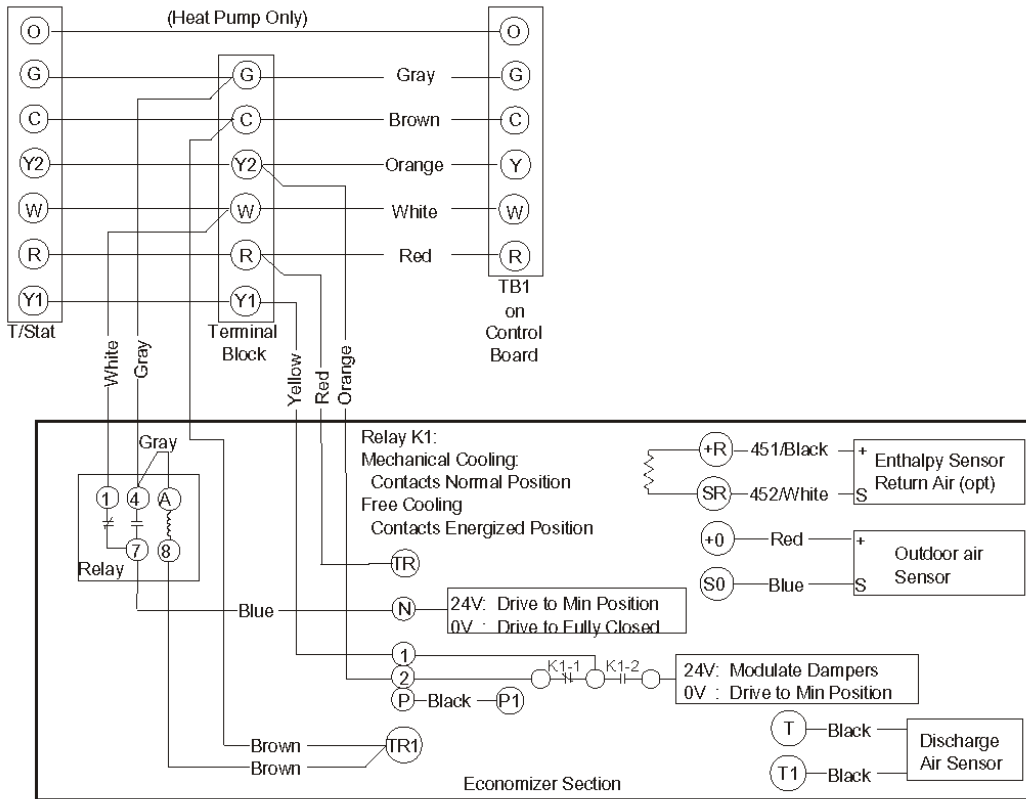


Figure 14: Wiring Connections

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