



Instructions for field installation of the external economizer on ComPac I air conditioners, models AVP*42-48-60

The following instructions describe how to field install and wire an economizer assembly on a Marvair ComPac I air conditioner, models, AVP*42-48-60.

Prior to making these modifications, power must be turned OFF to the unit.

WARNING

BEFORE INSTALLING THE ECONOMIZER, TURN THE POWER OFF TO THE UNIT. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR DEATH.

The economizer assembly consists of:

1. Economizer hood with filters,
2. Blank off plate, and
3. Top door



Installation

Tools Required

- #10 or 5/16" Nut driver
- 1/8" drill bit
- 5/16" or #10 socket
- socket wrench
- 6 ft. ladder
- Electric drill

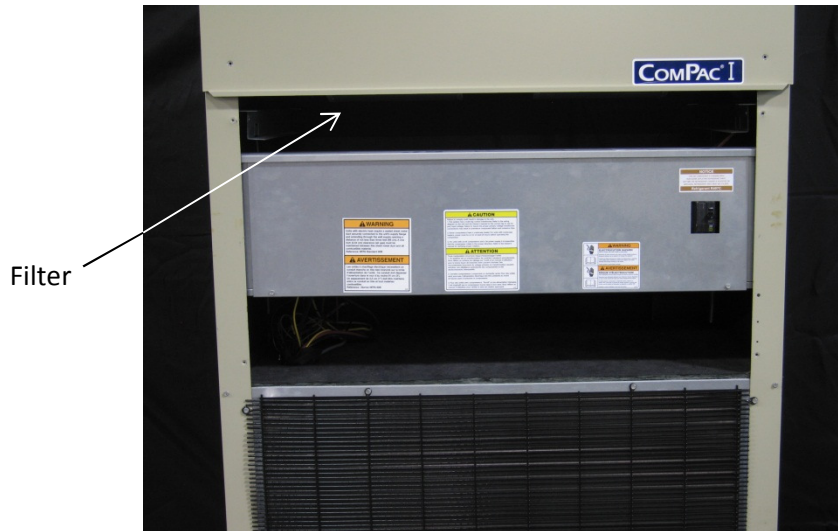
 **CAUTION**

THE ECONOMIZER ASSEMBLY IS HEAVY AND REQUIRES TWO PEOPLE TO LIFT AND INSTALL THE ASSEMBLY.

1. Remove the six screws attaching the existing top door to the unit. This door will be replaced by the new top door and will not be used.
2. Remove the four screws attaching the bottom door to the unit - two on the left and two on the right. This door will be replaced by the economizer hood and will not be used.



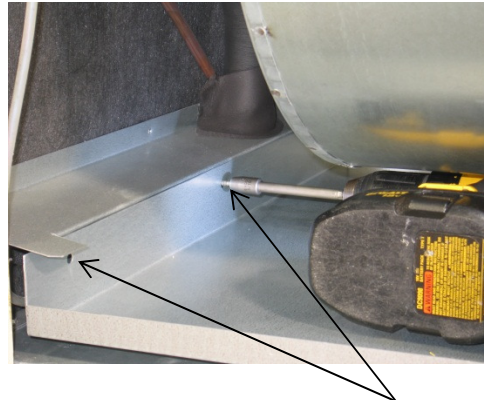
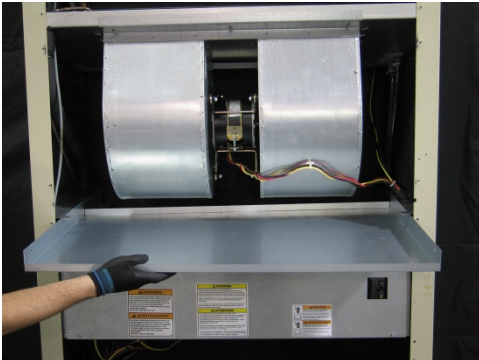
3. Remove and discard the existing filter in the unit. (The existing filter will not be used since the economizer hood has internal filters).



4. The standard filter in the ComPac I air conditioner is a 2" filter. However, if the unit has a 1" filter, push down the four filter guides/ tabs on each side.



- Slide filter block-off plate in the filter rail and fasten with two screws in front and middle left and right sides. Note: the block off plate has two holes in the rear. It is not necessary to use these holes.



Left screw holes

- Remove the control box cover, but do NOT discard.

Control Box Cover



- Remove the ten screws holding the condenser coil guard to the unit and remove the guard.



8. Remove the front panel from the economizer hood by removing the eleven screws along the top, bottom and sides.

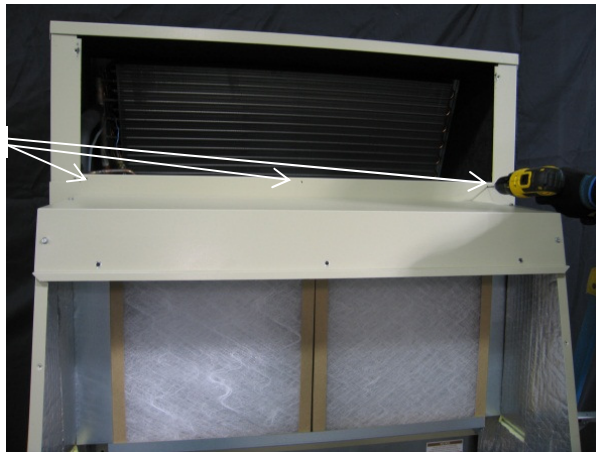


9. Lift the economizer hood (two man task) and hang the hood on the drain pan lip/edge. Secure the hood with four screws along the left side and four screws on the right side. Note: use the socket wrench to install the screw behind the motor box on the left side.



10. Drill three 1/8" pilot holes through the three clearance holes in the top of the economizer hood into the top of the drain pan.

Three pilot holes



11. Install the new top door and secure with two screws at the top. Make sure that the clearance holes along the bottom of the door align with the three clearance holes in the economizer hood. Secure the top hood with the three screws, going through the three clearance holes in the economizer hood and into the 1/8" holes drilled in step no. 10.

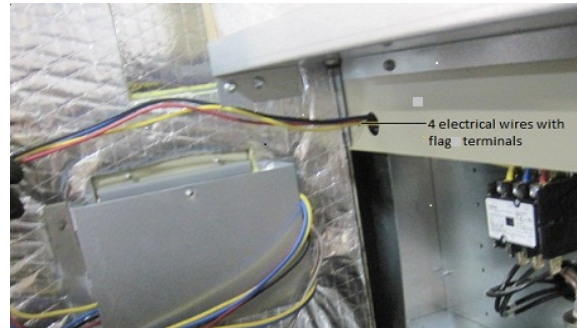
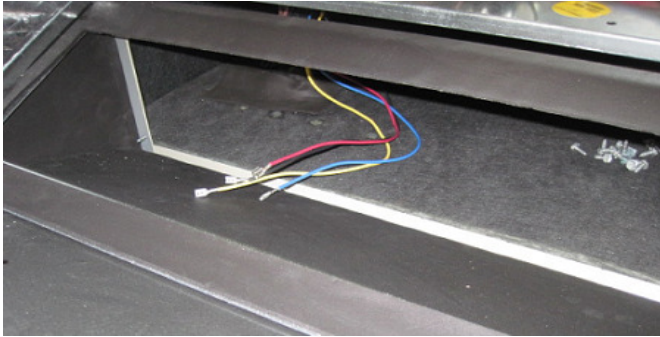


12. Replace the condenser coil guard.



ELECTRICAL CONNECTIONS

13. Push the four electrical leads with flag terminals through the hole shown until wires are visible below the control box. Then insert the wires into the control box through the grommets openings on either the bottom or rear of the control box.



14. Wire the unit according to the enclosed wiring diagram.
15. Reinstall the control box cover and secure with two screws.



16. Reinstall front panel to the economizer hood.



17. Installation is complete.

