RRS ROOFTOP SYSTEMS
A Ruskin Company

INSTALLATION INSTRUCTIONS FOR TRANE YC* / TC* / WC* UNITS

Installation of Downflow Economizer

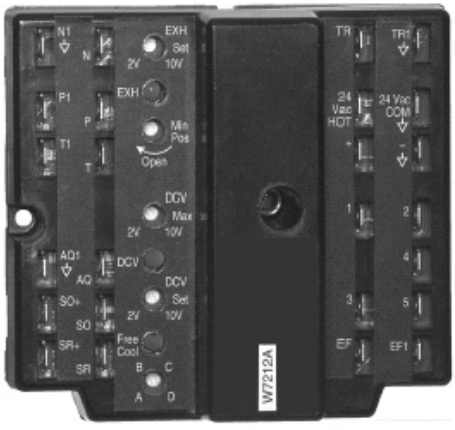
Economizer Features

- Economizer slides into the unit.
- Economizer hoods are painted to match the unit color.
- Barometric Relief Damper.
- Easy access to all controls.
- All economizer controls factory wired.
- Economizer factory run tested.
- Field wiring harness provided.
- M7215A damper motor.
- W7212A logic module.
- LED for economizer mode.
- LED for DCV mode.
- LED for power exhaust contact closure.
- C7400 enthalpy or C7650 dry bulb control.
- Dual enthalpy control optional.
- Low leak dampers.

Economizer Model Numbers	
RSI Model	**Unit Size**
70-364-12	YCC 018-042 F, 048 F-M TCC/WCC 018-042 F YCY/TCY/WCY 024-042 F YCZ/WCZ 036
70-364-13	YCC/YCY/YCX 048 F-H, 060 F-M TCC/WCC 048-060 F TCY/WCY 048-060 F YCZ 050-060 G / WCZ 060

M7215A Motor and W7212A Logic Module Features

- Motor has 2 – 12 VDC input for modulating control.
- Logic Module has 2 – 10 DCV Demand Control Ventilation (DCV) input capability. (Example: CO2 Sensor).
- Logic Module provides both a minimum damper position and a maximum damper position for DCV operation. Both are field selectable.
- CO2 Sensors (24 VAC) ***provided by RSI*** can be powered from the Logic Modules power supply. Separate transformers are not required.
- Logic Module has a field selectable set point to energize a power exhaust system based on the damper position. This could be either a power exhaust on the unit, or a separate exhaust fan.
- Logic Module will work with both single and dual enthalpy controls.
- Logic Module uses the industry standard enthalpy set point ranges (A, B, C, and D).



W7212 Logic Module

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1- Remove the unit economizer/filter access panel, the evaporator coil and blower access panel, and the electrical control box access panel.

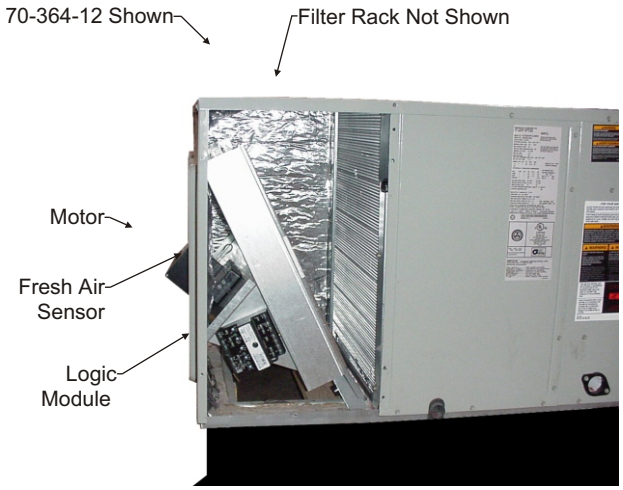


Figure 1

2- Remove and discard the panel covering the return air opening for downflow applications.

3- Filter frame must be installed prior to economizer installation.

Figure 2

4- Gasket must be placed on unit base flange at the bottom of economizer in return air opening. See Figure 2.

5- Insert economizer in the unit's return air compartment. See Figure 1. (Before installing it will be necessary to lift top of unit on 1 ½ - 3 ½ ton unit.

⚠ CAUTION

Use care when inserting economizer in the return air compartment, to prevent damaging the insulation inside the compartment.

Figure 3

6- A section of the bottom flange of economizer is turned down. See Figure 2. The turned down flange section shown in Figure 2 must be positioned as shown in return air opening to provide correct positioning, support, and spacing between economizer and filter frame.

7- Route wires from economizer. See Figure 3.

a- Attach bullet type wire ties (four(4)) to wires from economizer module and secure by inserting bullet portion of wire ties in filter frame hole and blower housing holes.

b- Insert wires from economizer module in grommet (factory installed), on end of indoor air coil.

c- Remove knockout to electrical compartment, insert bushing in knockout hole and insert wires thru bushing to electrical compartment and connection per diagram for electrical connections.

⚠ IMPORTANT

When the economizer is installed in heat pump models, a relay accessory kit (BAYRLAY004A) is required.

Mount relay accessory kit in unit control box.

8- Insert mixed air sensor in hole provided for mixed air sensor in blower housing and secure with two (2) sheet metal screws as illustrated in Figure 3.

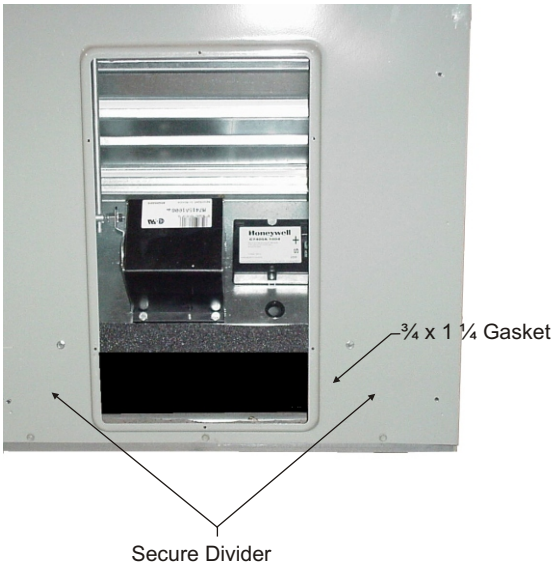


Figure 4

9- Using dimples in faces of unit to secure economizer divider. See Figure 4.

10- Place ¾ x 1 ¼ gasket across divider in horizontal duct opening. See Figure 4.

Figure 5

11- Mount relief hood by lining it up with divider. See Figure 5.

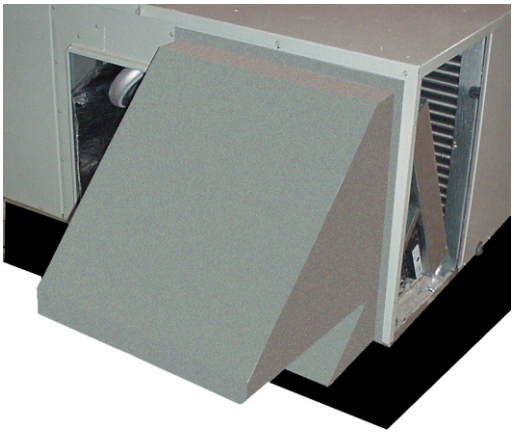
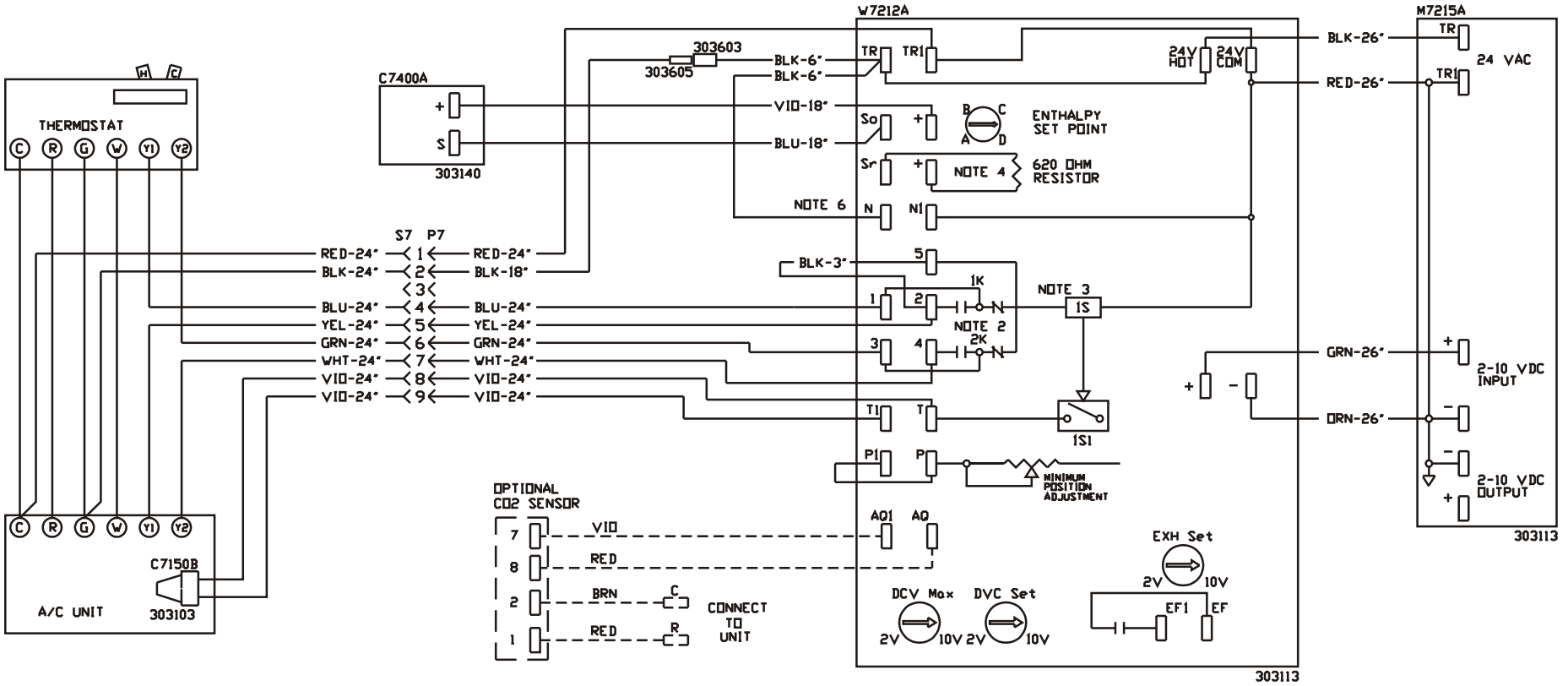


Figure 6

12- Set fresh air hood on top of relief hood and secure to unit. See Figure 6.



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Diagram# 36412W