ECONOMIZERS

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ENTHALPY SENSOR KIT

INSTALLATION INSTRUCTIONS FOR C1SNSR60FFI ENTHALPY SENSOR KIT (603364-28; 10Z75) USED WITH HIGH PERFORMANCE ECONOMIZERS

Shipping and Packing List

Package 1 of 1 contains:

- 1- Sensor
- 2- #6-32 X 7/8" Screws
- 1- P104 Wiring harness (used for outdoor air sensing only)
- 1- P105 Wiring harness (used for return air sensing only)
- 1- J105 Wiring harness (used for return air sensing only)
- 1- J104 Wiring harness (used for outdoor air sensing only)
- 1- Bracket (used on 092-150 units only)
- 1- Wire tie
- 1- #10-16 X 5/8" SDST screw

IMPORTANT - Two kits must be installed if differential enthalpy sensing is specified.

Check packaging for shipping damage. Contact the last carrier immediately if any shipping damage is found.

Application

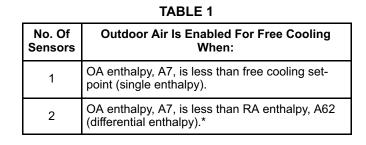
Sensors provide input to determine free cooling suitability. The enthalpy sensor provided in this kit senses both sensible temperature and humidity. See table 1 for usage.

Refer to economizer installation instructions.

Note - Differential sensor applications must use the same two sensors.

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier

Danger of sharp metallic edges. Can cause injury. Take care when servicing unit to avoid accidental contact with sharp edges.



Install Sensors

NOTE - Install the return air sensor before installing optional power exhaust dampers and gravity exhaust dampers. If gravity exhaust, power exhaust, or hoods are already installed, remove from unit.

- 1- Disconnect all power to unit.
- 2- Remove unit top back panel and retain screws. If economizer is already installed, remove hood.
- 3- Install sensors as shown in the following figures:

KG/KC/KH 024-090	Figure 1
KG/KC/KH 092-150	Figure 2 and 3
KG/KC/KH 156-300	Figure 4

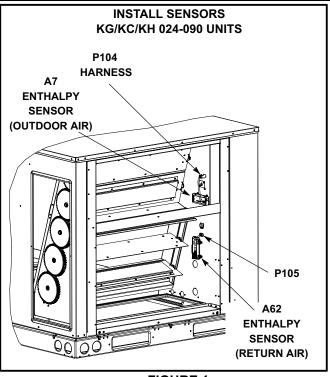
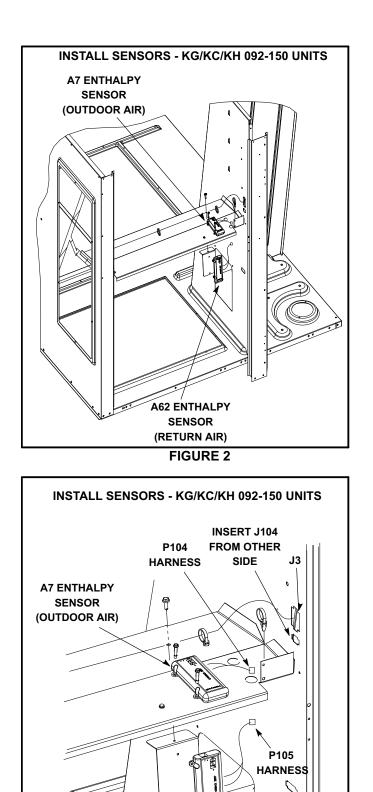


FIGURE 1



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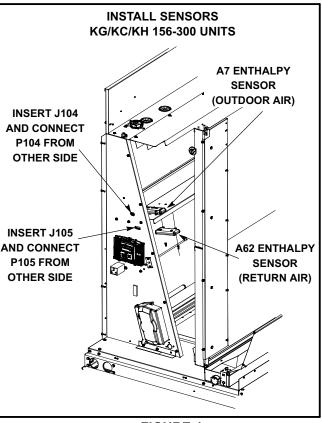


FIGURE 4

Wire A7 Sensor

Identify harnesses by markings on wires. Refer to figure 5 and 6.

- 1- Insert J104 jack into the side panel as shown in figure 7 for 024-090 units, figure 3 for 092-150 units, and figure 4 for 156-300S units.
- 2- Connect other end of J104 harness into A6 economizer control as shown in figure 5.
- 3- Connect P104 plug into J104 previously installed in side wall. See figure 1 for 024-090 units, figure 3 for 092-150 units, and figure 4 for 156-300S units.

Note - Wiring is shown on economizer wiring diagram. See figures 9 for 024-090 units and 10 for 092-300 units.

- 4- Connect other end of P104 harness into A7 enthalpy control as shown in figure 5.
- 5- Set DIP switch as shown in figure 8.
- 6- Discard J105 and P105 harnesses in single enthalpy installations.
- 7- Reinstall gravity exhaust damper, power exhaust, and outdoor air hood when applicable.

FIGURE 3

INSERT J104 FROM

OTHER SIDE

BRACKET

A62 ENTHALPY

SENSOR

(RETURN AIR)

Wire A62 Sensor

Note - Two kits must be ordered for differential sensing.

Identify harnesses by markings on wires. Refer to figure 5 and 6.

- 1- Insert J105 jack into the side panel as shown in figure 7 for 024-090 units, figure 3 for 092-150 units, and figure 4 for 156-300S units.
- 2- Connect other end of J105 harness into A6 economizer control as shown in figure 5.
- 3- Connect P105 plug into J105 previously installed in side wall. See figure 1 for 024-090 units, figure 3 for 092-150 units, and figure 4 for 156-300S units.

Note - Wiring is shown on economizer wiring diagram. See figures 9 for 024-090 units and 10 for 092-300 units.

- 4- Connect other end of P105 harness into A7 enthalpy control as shown in figure 5.
- 5- Set DIP switch as shown in figure 8.
- 6- Reinstall gravity exhaust damper, power exhaust, and outdoor air hood when applicable.

Operation

Refer to Unit Controller manual for start-up and operation.

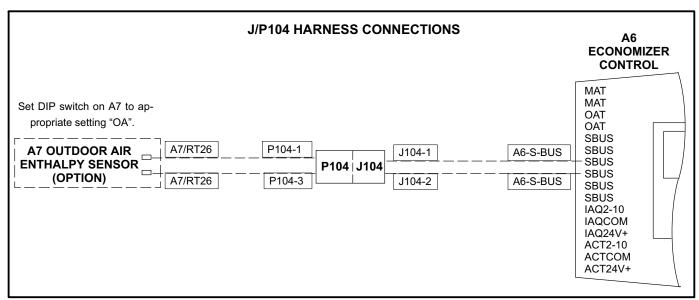


FIGURE 5

