# INSTALLATION INSTRUCTION

#### Outside Air Damper (Manual & Motorized) Manual Damper 547864 used with R6GP & P6SP 072 & 090 Manual Damper 547874 used with Q6SP 090 & 120, P6SP & R6GP 120 Motorized Damper 547865 used with all P6SP, R6GP, Q6SP

FORM# 607A-0611 (607A-0808)

### I - SHIPPING AND PACKING LIST

Package 1 of 1 contains:

#### 547864 / 547874

- 1 OAD Panel with Slide Damper
- 1 Control and Filter Access Panel
- 1 Fresh Air Hood with Filter
- 2 Snap Clips (304260)
- 38 Screws 10 x 1/2 x 16 Hex Tex

#### 547865

1 - Damper Section with Motor

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

#### **II - APPLICATION**

The Outside Air Dampers (OAD) are designed to fit the Return Access Panel. The manual dampers are adjusted by a slide damper and motorized dampers use a 2-position motor that opens when blower is energized.

#### III - INSTALLATION - MANUAL (547864 / 547874)

- 1. Remove unit return access panel.
- 2. Install OAD panel where return panel was removed. Add clip to each side near top of panel using existing screw from unit post.
- 3. Assemble fresh air hood. See Figure 1.
- 4. Install filter access panel and secure to unit. See Figure 2.
- 5. Adjust slide damper to desired position.

### **IV - INSTALLATION - MOTORIZED (547865)**

- 1. Remove OAD panel from unit or box depending on new or retro fitting existing unit.
- 2. Remove 1/2" screws located in clearance holes of hood on OAD panel. See Figure 3.
- 3. Take 1" screws shipped with damper and start in holes where screws in Step 2 were removed.
- 4. Place damper section to engage 1" screws in flange of damper. See Figure 3.
- 5. Place OAD Panel in same place unit panel was located. Connect (P1) plug from OAD to (S1) plug in unit located in economizer control panel above filter system.



Figure 3

-CONTROL MOTOR

-DAMPER FLANGE

HOOD OUTLINE

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#### **V - OPERATION AND CHECKOUT**

An spst low voltage controller is used to control the M8405 Actuator as follows:

A. Mid-position—when the controller circuit closes to provide 24 Vac to terminals T and X, the actuator is energized to run to the adjustable mid-position (minimum position).

Adjustable minimum position can be reached from either the fully closed or fully open position. From fully closed, the actuator drives open to the minimum position; from fully open, the actuator spring-returns to minimum position.

## **VI - SETTINGS AND ADJUSTMENTS**

The M8405 Damper Actuator has an integral thumbwheel for outside air minimum position adjustment. See Figure 4.

#### **Outside Air Position Adjustment**

- 1. Connect the 24 Vac to the actuator at terminals T and X (D is not connected).
- 2. Adjust the thumbwheel on the actuator for desired outside air minimum position.



