

# HAMILTON AIR®

FAIRFIELD, OHIO

## HA45 AIR FLOW INSTALLATION INSTRUCTIONS FOR UINTS WITH I/O CONTROL BOARD E0873 REV C. – 3/16/2010

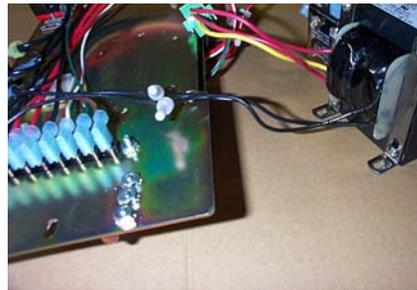
### Required Parts:

- Air Flow Kit P/N B10020
- 4 amp Transformer with Relay and Wires
- 2-6-32 X ¼” Phillips Truss Head Screws
- 2 Butt Splice Wire Connectors
- 4 Wire Ties

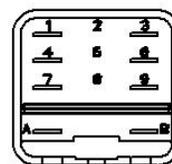
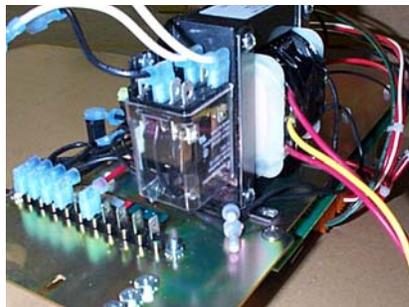
Approximate Installation Time: 20-30 minutes

### Installation Instructions:

1. Turn power off at the breaker and disconnect power on control panel.
2. Disconnect the following wires from the control panel.  
Mic, Speaker, Turbine Motors, Audio Cable, J1 & J2 Connectors, Cat5 Cable & Door Motor Harness.
3. Remove Control Panel from unit.
4. Unplug transformer and remove the plug from transformer and install on new transformer so that the yellow wire is on the center terminal and the 2 red wires are on the outer 2 terminals.
5. Remove transformer from control panel leaving most of the black wire on the control panel from the transformer. Leave it long enough to reach the end of panel as seen below.
6. Strip the 2 black wire left on panel and crimp them to the new transformer with the 2 butt splices provided in kit.



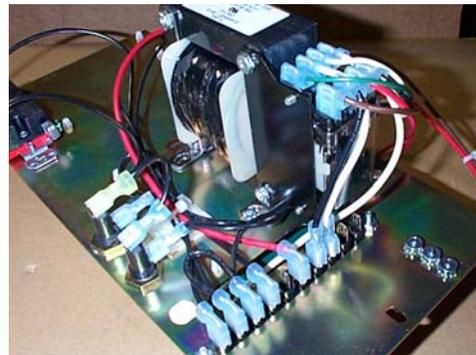
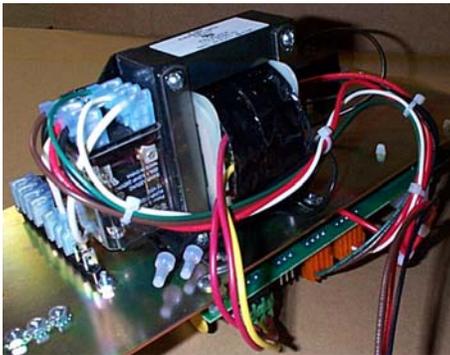
7. Before mounting the transformer you will need to unplug some wires from the back side of the terminal strip. Looking at the front of the panel, from right to left remove wires from terminals numbered 5 and 7 thru 10. Now, mount the new transformer as shown.



8. Reconnect the 24VAC, 3 pin plug on the transformer to the control board.
9. Connect wires as follows:

## RELAY

- Pin 1 to #2 of terminal strip Neutral (on front side of panel).
  - Pin 3 Connect the black wire removed from the terminal strip.
  - Pin 4 Connect the white wire removed from the terminal strip.
  - Pin 6 Connect the red wire removed from the terminal strip.
  - Pin 7 Connect to #8 of the terminal strip.
  - Pin 9 Connect to #7 of the terminal strip.
  - Pin A Connect the green wire removed from terminal strip.
  - Pin B Connect the brown wire removed from terminal strip.
10. Neatly retie the wires as shown below and reinstall the control panel in the HA45.



11. Terminal #8 previously labeled “24VAC-COM” on the main terminal strip has now become the neutral connection for the pressure turbine motor. Reconnect the white neutral wire from the pressure turbine motor (top turbine motor in the HA45 turbine pack) to #8 of the terminal strip.
12. Reconnect remaining cables to panel as they were removed in step #2 and check to make sure unit is in proper working order.

## **Airflow operation:**

The airflow function is ONLY operational if the customer door is closed and the function enabled on the control board. The airflow function runs the pressure turbine motor on 24VAC and is triggered three (3) minutes after the customer door has closed and/or the blowers have stop running. The airflow function can be turned on or off depending on the weather and need.

## **Enable or Disable Airflow function:**

- 1) Recall the carrier to the customer unit. (Make sure customer door is open)
- 2) Press and hold the carrier recall button (SW4) on the control board while pressing the customer send button on the customer unit.

The airflow LED indicator will flash to indicate if the airflow function is on or off.  
One flash = ON, Two flashes = OFF

Note: Toggle the function on and off by releasing both SW4 and customer send buttons before pressing again.