# **Fresh Air Ventilation Kit**

#### The Fresh Air Ventilation system is designed to introduce fresh air into a home through an intake damper controlled by a micro-processor logic panel. The iO-FAV has single adjustment setup, exhaust fan control option, outdoor temperature and/or humidity limit option and damper override capabilities. It is easy to install and meets ASHRAE Standard 62.2. The FAV is available as an iO-FAV kit which with a control panel, 20VA transformer and 6" or 8" round damper.



#### **Features and Benefits:**

- Micro-controller logic panel
- Status LEDs
- Single adjustment setup
- "Damper Closed" override switch
- Meets ASHRAE Standard 62.2
- · Exhaust fan control options
- Remote damper override options
- Outdoor temperature and humidity override option
- Optional On Demand CO<sub>2</sub> gas detection

**iO-FAVPAN** 

Warranty: 5 years



Outdoor Thermostat iO-ODT or On

stat Humidistat H8908A SPST Sold Separately

Mounting	Aluminum back plate with mounting holes
Panel Dimensions	8.00" Height x 6.00" Width x 1.50" Depth
Coverage	1,500 – 4,000 ft <sup>2</sup>
Adjustable Ventilation Schedule	1 – 60 minutes
Ventilation CFM Range	40 – 150 CFM
Power Requirement	24VAC
Damper Requirement	24VAC, 10VA, power open/spring close actuator

### Specifications:

ASENSE-R-REL **ASENSE-D-REL** 

## **On Demand CO<sub>2</sub> Ventilation**



Sensors sold separately

Connecting the CO<sub>2</sub> sensor to the over-ride terminals on our Fresh Air Ventilation panel activates the On Demand Ventilation function to provide fresh air into areas or rooms with high concentrations of CO<sub>2</sub>. Contact iO HVAC Controls for engineering and installation instructions and schematics.

The ASENSE room and duct transmitters monitor the carbon dioxide  $(CO_2)$ levels in industrial, school, and office type environments.

- Single beam non-dispersive infrared technology
- Relay energizes fresh air ventilation
- Measures the CO<sub>2</sub> concentration in the ambient air up to 2,000 ppm
- · Limited 5 year manufacturer's warranty

100VC LED1 PANEL DAMPER TRANS. DAMPER OPEN EXHAUST ON FAN 30 20 DIAL USED TO SET THE DESIRED NUMBER OF MINUTES 50 PER HOUR THAT VENTILATION WILL TAKE PLACE 60 MIN DAMPER OPEN MINUTES PER HOUR OVERRIDE SWITCH USED TO PLACE DAMPER IN AUTO CLOSED MODE OR CLOSED POSITION DAMPER 0  $\bigcirc$ W 1 2 101  $\bigcirc$ G1 3 101 G2  $\bigcirc$ Δ 0  $\otimes$ EF R 0  $\bigcirc$ 8 00 EF 5 С 0  $^{\odot}$ 0 0 0 0  $\odot$ 24V PC BOARD 9 6 0 0 0 0  $\odot$ 24V JUMPER 0 L 0 0 D  $^{\odot}$ Π 10 7 L 0  $\bigcirc$ D 0  $\bigcirc$ **TERMINAL DESIGNATIONS** 

#### **FAV DIAGRAM**

- 1 WIRES TO 'W' ON THE HVAC UNIT OR 'Y' ON HEAT PUMP
- 2 WIRES TO 'G' (FAN) ON THE THERMOSTAT
- 2 WIRES TO 'G' (FAN) ON THE HVAC UNIT 4 WIRES TO 'G' (FAN) ON THE HVAC UNIT 5 WIRES TO 'C' (24V HOT) ON THE HVAC UNIT 6 SEPARATE 24V TO POWER DAMPER
- 24V TO DAMPER (POWER OPEN / SPRING CLOSED DRY CONTACT EXHAUST FAN OPTION (N.O.)
- 8 -
- 9 REMOTE DAMPER OVERRIDE OPTION (N.O.) 10- OUTDOOR THERMOSTAT AND/OR HUMIDISTAT OVERRIDE OPTION (JUMPER MUST BE REMOVED)

**HVAC** Controls

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