



SUBMITTAL SHEET

FRESH AIR VENTILATOR WITH BACKDRAFT DAMPER, NO FILTER

MODEL 8126A

Project: _____

Architect: _____

Contractor: _____

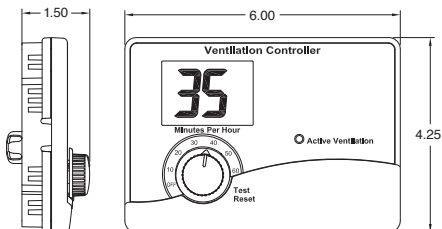
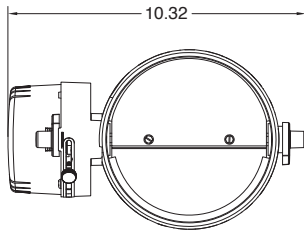
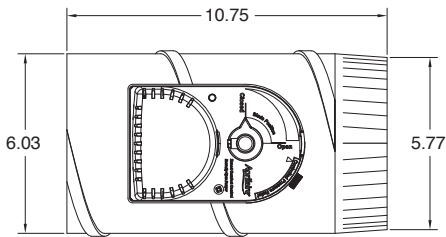
Suppliers: _____

Dealer: _____

Engineer: _____

Location: _____

Date: _____



STANDARD CONSTRUCTION DAMPER

Size	6" Diameter
Overall Dimension with controller	4-1/4" H x 6" W x 1-3/4" D
Frame	24 gauge spiral, galvanized steel .38 aluminum hexshaft
Blade	22 gauge galvanized steel
Bearings	Nylonacetal bearings
Blade Seal	Urethane
Maximum Static Pressure	1" water column
Maximum System Velocity	1000 feet per minute
Actuator	On-Off. Spring return 2-wire 24 VAC, 50/60Hz
Damper Output	1 Amp at 24VAC
TOTAL POWER CONSUMPTION	10 VA (6 watts)

CONTROLLER: Model 8120A (PROVIDED)

Cycle Time	1 hour
LCD Screen	Backlit display indicates the relative humidity and temperature
Operating Humidity Range	5% to 90%RH, non-condensing
Modes of Operation	4 (See table on back)
Input Power	24 VAC; 1 VA (from the HVAC system transformer)
Ventilation Dial Setting	Time Dial: Off, 0 to 60, Test/Reset

DAMPER TRANSFORMER: 24 VAC, 10 VA (PROVIDED)

OUTDOOR TEMPERATURE SENSOR: 10K @ 77 deg. Thermistor (PROVIDED)

Measurement Range	0° to 120°F
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PRINCIPAL OF OPERATION

Aprilaire 8126A ventilation system will bring in fresh air and activate the HVAC fan to cycle the fresh air throughout the home. The controller designed to meet the ASHRAE 62.2-2010 standard for ventilation. The ventilation mode selection allows for time only operation or for temperature and humidity limits to be applied to the incoming air.

SET OF OPERATION

Every hour the Model 8126A ventilation system will open the ventilation damper and turn on the HVAC system blower for the amount of time set on the Ventilation Time dial. Ventilation will occur first, when the HVAC system calls for either heating (W input), or cooling or continuous fan (G input). If the HVAC system is not on for the amount of time set on the Ventilation Time dial, the controller will open the damper and turn on the HVAC system blower at the end of the one hour cycle time in order to meet the set Ventilation Time. For example, assuming the Ventilation Time is set to 20 minutes per hour

and the heating or cooling was on for 10 minutes during that hour, ventilation would be provided during that time and the ventilation controller would open the damper and turn on the HVAC system blower for the last 10 minutes of the hour to meet the 20 minute ventilation time.

High and Low temperature limits are available in Modes B, C, D, to prevent outdoor air that is too hot or too cold from being delivered to the home. If the outdoor temperature rises above the High Limit or drops below the Low Limit, ventilation will not occur. If the outdoor temperature drops below the Heat Only Limit, ventilation will be allowed only when the HVAC system is calling for heat.

A high indoor RH limit available when in Modes B, C, D, to prevent potentially humid outdoor air from being delivered to an already humid home. If the indoor RH is above the Indoor RH Limit, and the outdoor temperature is above the corresponding limit, ventilation will not occur.

While in Mode A, both the temperature and RH limits are overridden.

POSITION	DESCRIPTION	CHART
<p>A TIME ONLY</p>	<p>Timer controlled ventilation (No temperature or humidity limits)</p>	<p>This setting can be calculated with ASHRAE Standard 62.2-2010 (Temperature and humidity sensors are ignored)</p>
<p>B DEFAULT</p>	<p>Timer controlled ventilation with humidity and temperature limits</p>	
<p>C COLD CLIMATE</p>	<p>Timer controlled ventilation with humidity and temperature limits</p>	
<p>D WARM CLIMATE</p>	<p>Timer controlled ventilation with humidity and temperature limits</p>	