

Product Data

FEATURES AND BENEFITS

The Fresh Air Vent and Controller is installed as part of the home's heating and cooling system to manage the quantity of fresh air introduced into the structure.

With today's homes being built "tighter" for improved energy efficiency, many states and provinces now require mechanical ventilation as part of the building code. In these tight homes, contaminants including radon, formaldehyde, household chemicals, smoke and other odors can build up to levels that exceed safe thresholds.

The Fresh Air Vent system controller provides the user with adjustable flexibility to precisely set up and manage fresh air to reduce or dilute the volume of "stale" air in the home - at an affordable price point.

The system allows fresh air to be introduced throughout the year, except in extreme temperature and humidity conditions. The controller does not allow the damper to open when outdoor temperatures are above 100°F (38°C), below 0°F (-17°C), or if indoor humidity levels are above 55%, in order to prevent conditions that would have a negative impact on comfort.

The volume of air can be precisely controlled by settings on the damper motor, so applications with fresh air requirements up to 100 cfm (or higher, depending on application) can be achieved.



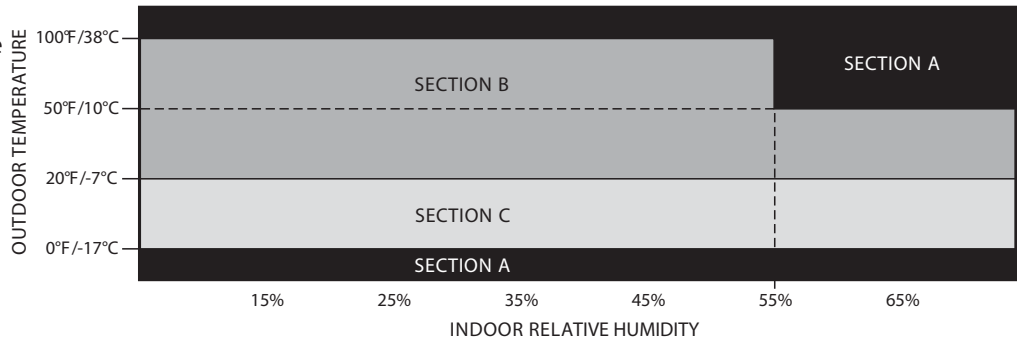
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VENTILATION CONTROL SCHEME - LIMITS OF TEMPERATURE AND HUMIDITY

SECTION A: Ventilation prevented due to temperature extremes and/or high indoor humidity.

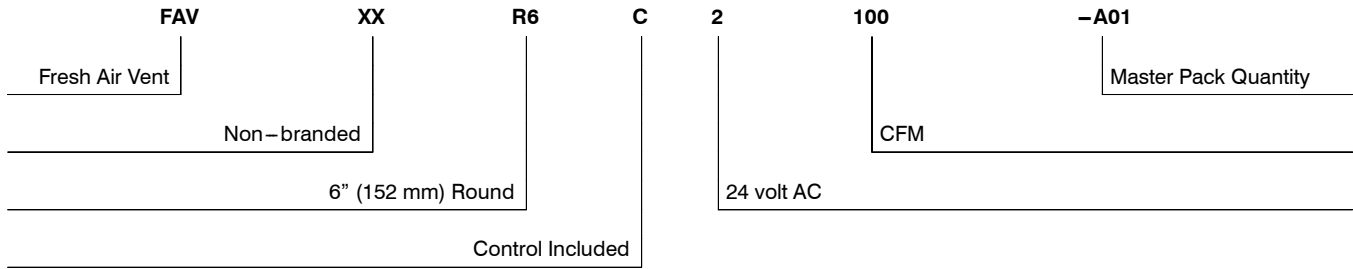
SECTION B: Ventilation per the timer settings.

SECTION C: Ventilation optional if required.



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MODEL NUMBER NOMENCLATURE



PHYSICAL DATA

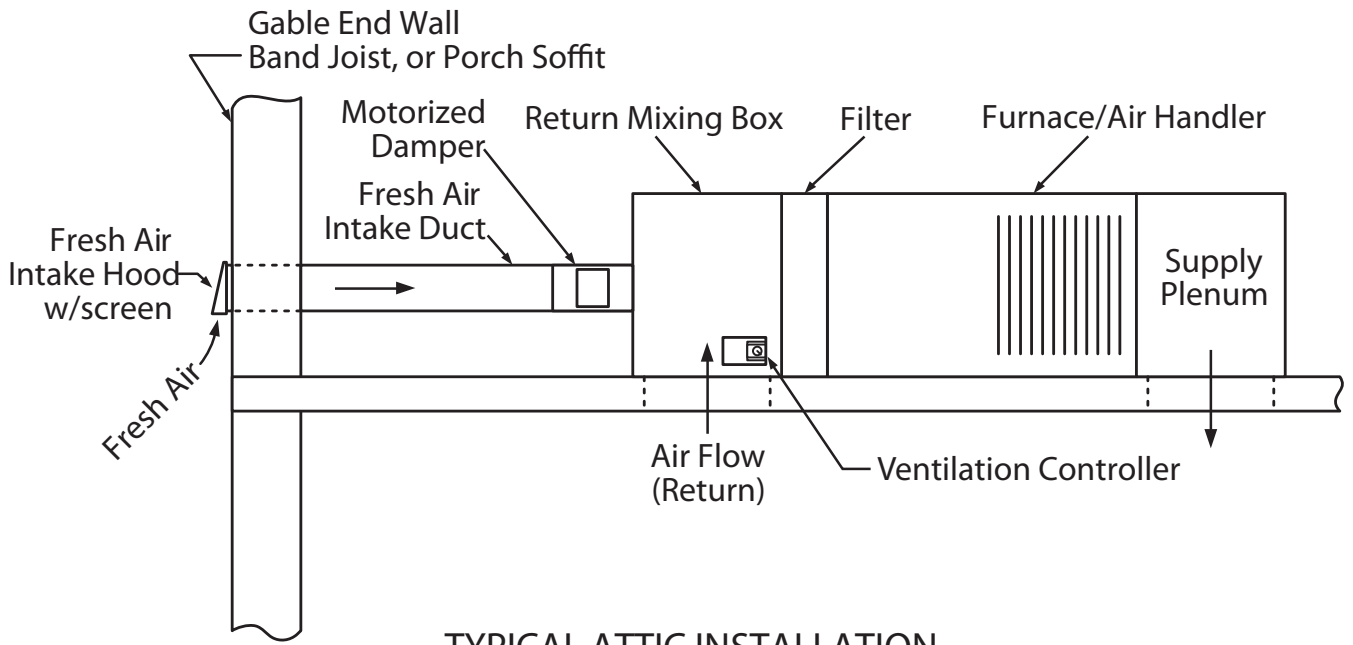
| MODEL | FAVXR6C2100-A01 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Duct Length | 10-3/4" (273 mm) |
| Ventilation Controller | Requires 4-11/16" x 2-15/16" (119 mm x 75mm) cutout |
| Damper Round Duct Body | 24 Ga. Galvanized |
| Damper Blade Material | 20 Ga. Galvanized |
| Damper Shaft Material | Aluminum |
| Duct Connections | Standard 6" (152 mm) round with entering end plain and leaving end crimped |
| Damper Blade Travel / Stop | 90° Adjustable, factory set for fully open |
| Damper Blade Seals | 1/2" (13 mm) width foam seal strips applied to duct interior perimeter to seal blade from outdoors in the closed position |
| Max. Static Pressure | 1.0" WC |
| Damper Motor Type – Synchronous | Motor is 24 VAC 60 Hz, 6 Watts, 0.41 amp, 4 RPM |
| Connections | Two 6" (152 mm) wiring pigtails |
| Damper Control Input | (R,C) 18 to 30 VAC, 1 amp maximum |
| Damper Control Output | 18 to 30 VAC, 1 amp maximum closed contact |
| Cycle Time | Selectable settings – 1,2,3 or 4 hours (Factory setting 2 hours) |
| Ventilation Time | Dial setting from 0 to 60 minutes |
| Damper Type | Normally closed, power open |
| Operating Temperature Range for External Environment | -20°F to 140°F (-29°C to +60°C) |
| Accessories Include | Transformer, ventilation controller, injection molded plastic snap-on motor cover "time only" override jumper, outdoor thermistor with two 8" (203 mm) wiring pigtails |
| Shipping Weight | 5 lbs. 6 oz (2.4 kg) |

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ASHRAE 62.2 (2007) VENTILATION REQUIREMENTS

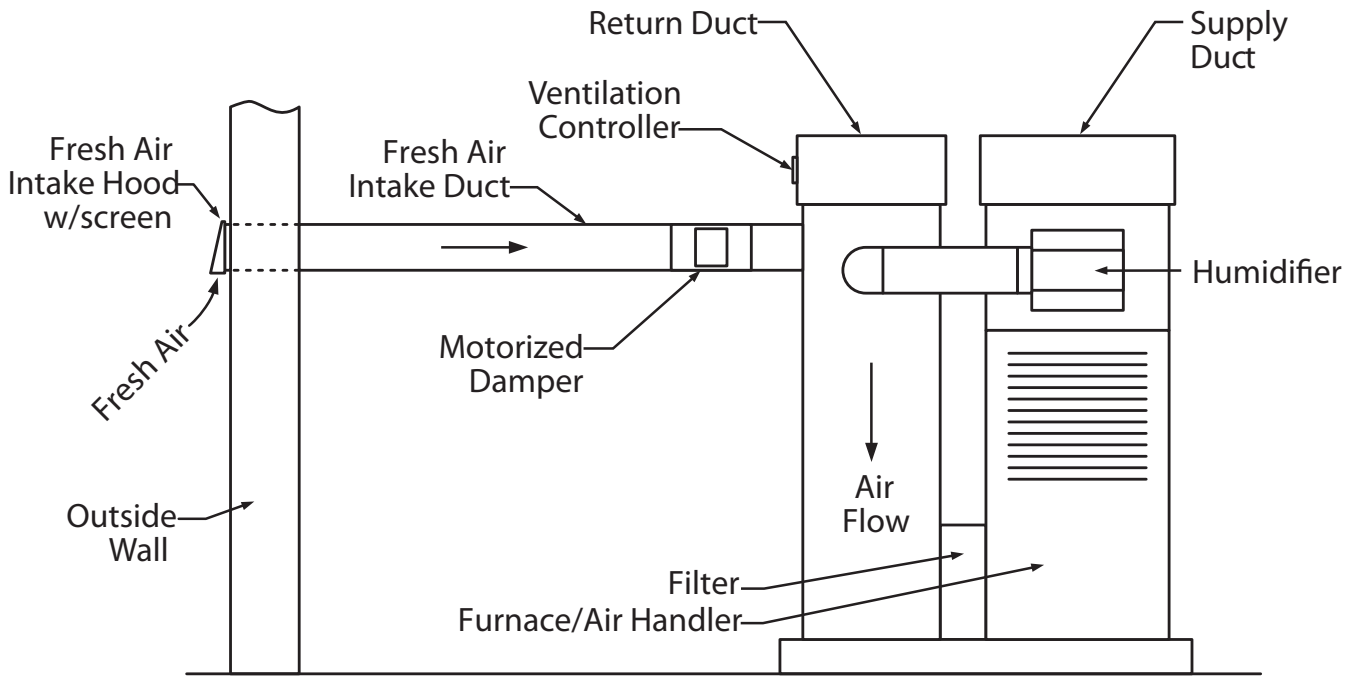
| MINIMUM CFM REQUIREMENT | | | | | |
|-------------------------|--------------------|-----|----|-----|-----|
| HOUSE SQ FT | Number of Bedrooms | | | | |
| | 2 | 3 | 4 | 5 | 6 |
| 1000 | 35 | 40 | 50 | --- | --- |
| 1500 | 40 | 45 | 55 | 60 | 70 |
| 2000 | 45 | 50 | 60 | 65 | 75 |
| 2500 | 50 | 55 | 65 | 70 | 80 |
| 3000 | 55 | 60 | 70 | 75 | 85 |
| 3500 | --- | --- | 75 | 80 | 90 |

| MINIMUM L/S REQUIREMENT | | | | | |
|-------------------------|--------------------|-----|----|-----|-----|
| HOUSE m ² | Number of Bedrooms | | | | |
| | 2 | 3 | 4 | 5 | 6 |
| 92.9 | 16 | 19 | 23 | --- | --- |
| 139.3 | 19 | 21 | 26 | 28 | 33 |
| 185.8 | 21 | 23 | 28 | 30 | 35 |
| 232.3 | 23 | 26 | 30 | 33 | 37 |
| 278.7 | 26 | 28 | 33 | 35 | 40 |
| 325.2 | --- | --- | 35 | 37 | 42 |



TYPICAL ATTIC INSTALLATION

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TYPICAL BASEMENT INSTALLATION

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