How to Size Power Vents?

Power vents are rated in CFM – cubic feet of air moved per minute. The higher the CFM, the more powerful the vent and the more air exchanges per hour it provides. To determine the minimum CFM required, multiply the attic square footage by 0.7. For example:

1500 square feet x 0.7 = 1050 CFM

Thus, a fan rated at least 1050 CFM is needed.

How Much Intake Ventilation?

Just like any exhaust vent, power vents need intake airflow to perform properly. To calculate how much intake the power vent needs, simply divide the fan’s CFM capacity by 300 and then convert that number to square inches.

### Why a Humidistat?

A typical family of four produces an average of 2 to 4 gallons of water vapor per day in a home. In the winter, this vapor is trapped in the attic, where it quickly condenses. Condensation can drip onto attic insulation, reducing its effectiveness. This moisture can cause wood rot to the attic structure and promote the growth of mold and mildew, affecting the quality of the air in the home. So, for added protection, install a power vent equipped with a humidistat.

### Air Vent Intake Vents

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Description</th>
<th>Colors</th>
<th>Size</th>
<th>Net Free Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Edge</td>
<td>EV10</td>
<td>Single entry roof-top installed</td>
<td>Black</td>
<td>4&quot;</td>
<td>8 sq. in. per ft.</td>
</tr>
<tr>
<td></td>
<td>VDE</td>
<td>Aluminum</td>
<td>White, M11, Brown, Black</td>
<td>10&quot;</td>
<td>9 sq. in. per ft.</td>
</tr>
<tr>
<td></td>
<td>SV201</td>
<td>Louvred Aluminum Continuous soffit vent ( Retrofit)</td>
<td>White, M11, Brown</td>
<td>8&quot;</td>
<td>9 sq. in. per ft.</td>
</tr>
<tr>
<td></td>
<td>SV202</td>
<td>Louvred Aluminum Continuous soffit vent ( New construction)</td>
<td>White, M11, Brown</td>
<td>8&quot;</td>
<td>9 sq. in. per ft.</td>
</tr>
<tr>
<td>Undercane Vents</td>
<td>EV1824</td>
<td>Aluminum</td>
<td>White, M11, Brown</td>
<td>4&quot; x 16&quot;</td>
<td>28 sq.</td>
</tr>
<tr>
<td></td>
<td>EV1824</td>
<td>Aluminum</td>
<td>White, M11, Brown</td>
<td>6&quot; x 16&quot;</td>
<td>42 sq.</td>
</tr>
<tr>
<td></td>
<td>EV1824</td>
<td>Aluminum</td>
<td>White, M11, Brown</td>
<td>8&quot; x 16&quot;</td>
<td>56 sq.</td>
</tr>
<tr>
<td></td>
<td>EV1842</td>
<td>Aluminum</td>
<td>Weatherwood</td>
<td>56&quot;</td>
<td>9 sq. in. per ft.</td>
</tr>
</tbody>
</table>

### Roof-Mount Models

<table>
<thead>
<tr>
<th>Product</th>
<th>CFM</th>
<th>Colors</th>
<th>Arctic Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model HE15</td>
<td>1500</td>
<td>Weatherwood</td>
<td>2100 sq. ft.</td>
</tr>
<tr>
<td>with variable speed motor, thermostat/ humidistat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model ASRHP</td>
<td>1500</td>
<td>Gray, Brown, Black, Weatherwood</td>
<td>2100 sq. ft.</td>
</tr>
<tr>
<td>with automatic thermostat/humidistat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model SV3000</td>
<td>1500</td>
<td>Brown, Weatherwood</td>
<td>2100 sq. ft.</td>
</tr>
<tr>
<td>with automatic thermostat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model PC12</td>
<td>1170</td>
<td>Gray, Brown, Black, Weatherwood</td>
<td>1650 sq. ft.</td>
</tr>
<tr>
<td>with automatic thermostat/humidistat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model RV26</td>
<td>1320</td>
<td>Gray, Weatherwood</td>
<td>1900 sq. ft.</td>
</tr>
<tr>
<td>with automatic thermostat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model RV26</td>
<td>1170</td>
<td>Steel, Gray, Brown, Black, Weatherwood</td>
<td>1650 sq. ft.</td>
</tr>
<tr>
<td>with automatic thermostat</td>
<td></td>
<td>Plastic: Gray</td>
<td></td>
</tr>
<tr>
<td>SolarCool SC8BL</td>
<td>800</td>
<td>Black</td>
<td>1200 sq. ft.</td>
</tr>
<tr>
<td>with 10-watt solar panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SolarCool NPS8WW</td>
<td>800</td>
<td>Weatherwood</td>
<td>1200 sq. ft.</td>
</tr>
<tr>
<td>with separate 10-watt solar panel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gable-Mount Models</td>
<td>CFM</td>
<td>Arctic Size</td>
<td></td>
</tr>
<tr>
<td>APGH with automatic thermostat/humidistat</td>
<td>1620</td>
<td>2300 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>APG with automatic thermostat</td>
<td>1620</td>
<td>2300 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>WCGWB with automatic thermostat</td>
<td>1320</td>
<td>1900 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>WCGWB with automatic thermostat</td>
<td>1050</td>
<td>1500 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>NPSGWB with 10-watt solar panel</td>
<td>800</td>
<td>1200 sq. ft.</td>
<td></td>
</tr>
</tbody>
</table>

### Replacement Plus™ Protection

Replacement Plus provides reimbursement for all labor costs incurred in removing any defective vent and installing the vent replacement, in addition to the replacement product itself.

Air Vent Incentives

- Reduce energy costs
- Help eliminate damaging moisture
- Improve air quality
- Extend roof and shingle life
Electric power attic ventilators are controlled by a factory pre-wired thermostat and/or a humidistat to ensure effective ventilation as needed. They deliver cooling results faster than wind turbines and roof louvers. Power vents are available for both roof- and gable-mount applications. Roof-mount power vents are ideal for hard-to-vent hip roof applications.

**Model HE15**

- 1500 CFM for attics up to 2,100 square feet
- Variable speed motor adjusts to the conditions in the attic
- Less electricity consumption (up to 74%) vs. traditional motors
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection
- Requires 720 square inches of intake vents
- Dome colors available: Weatherwood

**Model ASRHP**

- 1500 CFM for attics up to 2,100 square feet
- Heavy-duty, rust-resistant steel dome
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection
- Requires 720 square inches of intake vents
- Dome colors available: Gray, Brown, Black and Weatherwood

**Model SV3000**

- 1500 CFM for attics up to 2,100 square feet
- Heavy-duty, rust-resistant steel dome
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection
- Requires 720 square inches of intake vents
- Dome colors available: Gray, Brown and Weatherwood

**Model PC12**

- 1170 CFM for attics up to 1,650 square feet
- Heavy-duty, rust-resistant steel dome
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection
- Requires 562 square inches of intake vents
- Dome colors available: Gray, Brown, Black and Weatherwood

**Model RV26**

- 1170 CFM for attics up to 1,650 square feet
- Plastic or heavy-duty, rust-resistant steel dome
- 10-year Limited Warranty includes 5-year Replacement Plus™ protection
- Requires 562 square inches of intake vents
- Steel dome colors available: Gray, Brown, Black and Weatherwood

**Dome color available: Black**

**Model RV28**

- 1320 CFM for attics up to 1,900 square feet
- Heavy-duty, rust-resistant steel dome
- 10-year Limited Warranty includes 5-year Replacement Plus™ protection
- Requires 634 square inches of intake vents
- Dome colors available: Gray and Weatherwood

**Gable-Mount**

- Air Vent's gable-mount power vents feature a fan blade encased in a series of rings – not a cylinder like standard units. This open ring configuration allows the motor to move air 35% more efficiently with fewer restrictions and operate 30% quieter than comparable units. A shutter (Model SHT15W, sold separately) opens automatically when the fan turns on to allow the unit to exhaust efficiently. The shutter can be painted to match the home's exterior.

**Model APGH with Automatic Thermostat/Humidistat**

- 1620 CFM for attics up to 2,300 square feet
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection
- Requires 778 square inches of intake vents
- Use with shutter Model SHT15W for optimum performance

**Model WCG8 with Automatic Thermostat**

- 1320 CFM for attics up to 1,900 square feet
- 5-year Limited Warranty includes 5-year Replacement Plus™ protection
- Requires 634 square inches of intake vents
- Use with shutter Model SHT15W for optimum performance

**Model WCGA with Automatic Thermostat**

- 1650 CFM for attics up to 1,500 square feet
- 5-year Limited Warranty includes 2-year Replacement Plus™ protection
- Requires 504 square inches of intake vents
- Use with shutter Model SHT15W for optimum performance

**Built-in Quality**

- The quality that’s built into every power vent:
  - 1
  - 2 Pre-painted 22-gauge galvanized steel dome is more durable than aluminum. Screws are painted to match dome color.
  - 2 Raised dome for greater airflow and easier flashing.
  - 3 Plastic screen has distinct advantages over metal: it won’t corrode or rust and it won’t rattle or create noise.
  - 4 Six brace struts hold dome firmly in place.
  - 5 Oversized 24" x 24" G90 galvanized base flange for easy nailing and flashing.
  - 6 Stiffening rib improves edge sealing and adds rigidity.

See AirVents.com for warranty details.

"Air Vent's full line of intake vents are listed on the back of this brochure."