

SOLAR CONTROLLER™

Sold Separately



Solar Controller™ Humidistat/Thermostat

Intelligently manages operation of Models 9930TR, 9920TR, 9912TR

- **Electronic thermostat** – enable or disable. Turns fan on, power source permitting, at 80° F and off at 77° F.
- **Electronic humidistat** – turns fan on, power source permitting, at 75% relative humidity and off at 65% relative humidity.
- AC Power adapter for operation after dark or when solar power not available:
- Runs on intermittent 15-minute cycles for up to 10 hrs. or until solar power becomes available.
- Hand-held remote displays attic temperature, attic humidity, fan operating status and fan power source.
- 1-year Limited Warranty³

GABLE-MOUNT



Model 1020APV¹ with 20-watt solar panel²

- Up to 1680 CFM under direct sunlight for attics up to 2,400 square feet
- Includes 30 feet of wire for ideal placement of solar panel
- Wind, hail and impact resistant solar panel
- 5-year Limited Warranty³
- Requires 807 square inches of intake vents⁴



Model NPSP8 with 10-watt solar panel

- Up to 800 CFM under direct sunlight for attics up to 1,200 square feet
- Solar panel mounts directly over the shingles
- Wind, hail and impact resistant solar panel
- 5-year Limited Warranty includes 2-year Replacement Plus[™] protection³
- Requires 384 square inches of intake vents⁴

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:

$$1500 \text{ square feet} \times 0.7 = 1050 \text{ CFM}$$

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.

$$\frac{\text{CFM of Power Vent}}{300} = \text{Sq. ft. of intake net free area needed} \times 144 = \text{Sq. in. of intake net free area needed}$$

Example:

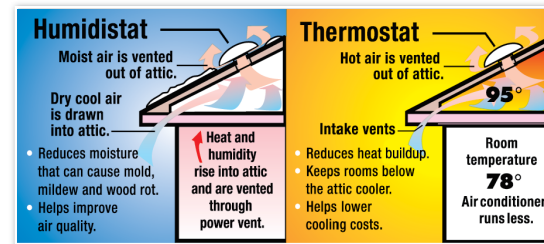
$$\frac{1050 \text{ CFM}}{300} = 3.5 \text{ sq. ft. of intake net free area needed} \times 144 = 504 \text{ sq. in. of intake net free area needed}$$

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 attracted to the cooler air 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.

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ROOF-MOUNT MODELS

Product	CFM	Colors	Attic Size
Model ASRHP with automatic thermostat/humidistat	1500	Gray, Brown, Black, Weatherwood	2,100 sq. ft.
Model SV3000 with automatic thermostat	1500	Brown, Weatherwood	2,100 sq. ft.
Model PC12 with automatic thermostat/humidistat	1170	Gray, Brown, Black, Weatherwood	1,650 sq. ft.
Model RV28 with automatic thermostat	1320	Gray, Weatherwood	1,900 sq. ft.
Model RV26 with automatic thermostat	1170	Steel: Gray, Brown, Black, Weatherwood Plastic: Gray	1,650 sq. ft.
9930TR with 30-watt solar panel	1960	Black	2,800 sq. ft.
9920TR with Solar Controller and 20-watt solar panel	1680	Black	2,400 sq. ft.
9912TR with 12-watt solar panel	945	Black	1,350 sq. ft.
SolarCool SC8BL with 10-watt solar panel	800	Black	1,200 sq. ft.
SolarCool NPSP8WW with separate 10-watt solar panel	800	Weatherwood	1,200 sq. ft.

GABLE-MOUNT MODELS

Product	CFM	Attic Size
APGH with automatic thermostat/humidistat	1620	2,300 sq. ft.
APG with automatic thermostat	1620	2,300 sq. ft.
WCGB with automatic thermostat	1320	1,900 sq. ft.
WCGA with automatic thermostat	1050	1,500 sq. ft.
1020APV with 20-watt solar panel	1680	2,400 sq. ft.
NPSP8 with 10-watt solar panel	800	1,200 sq. ft.

AIR VENT INTAKE VENTS

Product	Model	Description	Colors	Size	Net Free Area
The Edge Vent	EVI	Shingle-over, roof-top installed	Black	4"	9 sq. in. per ft.
Vented Drip Edge	VDE	Aluminum	White, Mill, Brown, Black	10'	9 sq. in. per ft.
Continuous Soffit Vent	SV201	Louvered Aluminum Continuous soffit vent (Retrofit)	White, Mill, Brown	8'	9 sq. in. per ft.
	SV202	Louvered Aluminum Continuous soffit vent (New construction)	White, Mill, Brown	8'	9 sq. in. per ft.
	SP8	Perforated Aluminum	White, Mill, Brown	8'	8 sq. in. per ft.
	SV351	Perforated PVC Continuous soffit vent (Retrofit)	White, Brown	8'	9 sq. in. per ft.
	SV352	Perforated PVC Continuous soffit vent (New construction)	White	8'	9 sq. in. per ft.
	Undereave Vents	EV16424	Aluminum	White, Mill, Brown	4" x 16"
EV16624		Aluminum	White, Mill, Brown	6" x 16"	42" pc
EV16824		Aluminum	White, Mill, Brown	8" x 16"	56" pc

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.



Get Our APP!



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AIR VENT POWER VENTS

Quality-Built, Efficient Fans
from the Industry Leader in
Attic Ventilation



- Reduce energy costs
- Help eliminate damaging moisture
- Improve air quality
- Extend roof and shingle life

Expanded Lineup of
Solar Powered Models
– including
operation without
sunlight



ELECTRIC POWER VENTS

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.

ROOF-MOUNT



MODEL ASRHP
with Automatic
Thermostat/Humidistat

- 1500 CFM for attics up to 2,100 square feet
 - Heavy-duty, rust-resistant steel dome
 - Limited Lifetime Warranty includes 5-year Replacement Plus™ protection³
 - Requires 720 square inches of intake vents⁴
- Dome colors available:** Gray, Brown, Black and Weatherwood



MODEL SV3000
with Automatic Thermostat

- 1500 CFM for attics up to 2,100 square feet
 - Heavy-duty, rust-resistant steel dome
 - Limited Lifetime Warranty includes 5-year Replacement Plus™ protection³
 - Requires 720 square inches of intake vents⁴
- Dome colors available:** Brown and Weatherwood



MODEL PC12
with Automatic Thermostat/Humidistat

- 1170 CFM for attics up to 1,650 square feet
 - Heavy-duty, rust-resistant steel dome
 - 10-year Limited Warranty includes 5-year Replacement Plus™ protection³
 - Requires 562 square inches of intake vents⁴
- Dome colors available:** Gray, Brown, Black and Weatherwood



MODEL RV28
with Automatic Thermostat

- 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™ protection³
 - Requires 634 square inches of intake vents⁴
- Dome colors available:** Gray and Weatherwood



MODEL RV26
with Automatic Thermostat

- 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™ protection³
 - Requires 562 square inches of intake vents⁴
- Steel dome colors available:** Gray, Brown, Black and Weatherwood
Plastic dome color available: Gray



GABLE-MOUNT



Model APGH with Automatic Thermostat/Humidistat

- 1620 CFM for attics up to 2,300 square feet
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection³
- Requires 778 square inches of intake vents⁴



Model APG with Automatic Thermostat

- 1620 CFM for attics up to 2,300 square feet
- Limited Lifetime Warranty includes 5-year Replacement Plus™ protection³
- Requires 778 square inches of intake vents⁴



Model WCGB with Automatic Thermostat

- 1320 CFM for attics up to 1,900 square feet
- 10-year Limited Warranty includes 5-year Replacement Plus™ protection³
- Requires 634 square inches of intake vents⁴



Model WCGA with Automatic Thermostat

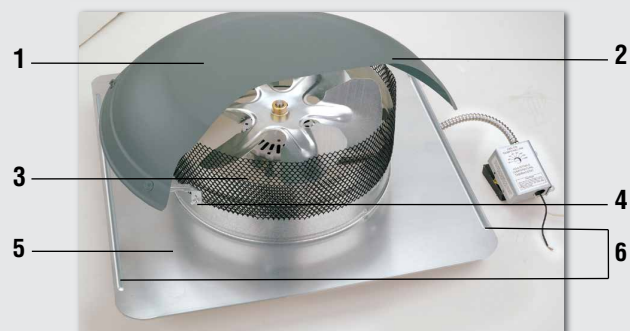
- 1050 CFM for attics up to 1,500 square feet
- 5-year Limited Warranty includes 2-year Replacement Plus™ protection³
- Requires 504 square inches of intake vents⁴



Air Vent's gable-mount power vents operate 30% quieter and 35% more efficiently than comparable units. The fan blade is encased in a patented series of rings – not a cylinder like standard units. This open ring configuration allows the fan motor to move air more efficiently and with fewer restrictions. 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.

BUILT-IN QUALITY

You'll appreciate the quality that's built into every power vent:



- 1 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 vibrate or create noise.
- 4 Six brace struts hold dome firmly in place.
- 5 Oversized 24" x 24" G-90 galvanized base flange for easy nailing and flashing.
- 6 Stiffening rib improves edge sealing and adds rigidity.

SOLAR POWER VENTS



Roof-mount and gable-mount solar power vents are an exciting alternative to traditional power fans.

ROOF-MOUNT



Model 9930TR¹
with 30-watt solar panel²

- Up to 1960 CFM under direct sunlight for attics up to 2,800 square feet
- Fade, rust and dent resistant heavy-duty plastic dome
- Solar panel is wind, hail and impact resistant
- Solar panel tilts and rotates for maximum sun exposure and energy collection
- Optional Curb-Mounting Adapter available for flat roofs
- 5-year Limited Warranty³
- Requires 941 square inches of intake vents⁴



Model 9920TR¹
with 20-watt solar panel²

- Up to 1680 CFM under direct sunlight for attics up to 2,400 square feet
- Fade, rust and dent resistant heavy-duty plastic dome
- Solar panel is wind, hail and impact resistant
- Solar panel tilts and rotates for maximum sun exposure and energy collection
- Solar Controller can power fan when sunlight is not available
- Optional Curb-Mounting Adapter available for flat roofs
- 5-year Limited Warranty³
- Requires 807 square inches of intake vents⁴



SOLARCOOL™
Model SC8BL
with 10-watt solar panel

- Up to 800 CFM under direct sunlight for attics up to 1,200 square feet
- Pre-painted galvanized steel dome; black
- Solar panel can be tilted and rotated for maximum sun exposure and energy collection
- Solar panel is wind, hail and impact resistant
- 5-year Limited Warranty includes 2-year Replacement Plus™ protection³
- Requires 384 square inches of intake vents⁴



Model 9912TR¹
with 12-watt solar panel²

- Up to 945 CFM under direct sunlight for attics up to 1,350 square feet
- Fade, rust and dent resistant heavy-duty plastic dome
- Solar panel is wind, hail and impact resistant
- Solar panel tilts and rotates for maximum sun exposure and energy collection
- Optional Curb-Mounting Adapter available for flat roofs
- 5-year Limited Warranty³
- Requires 454 square inches of intake vents⁴



Model NPSP8WW
with separate
10-watt solar panel

- Up to 800 CFM under direct sunlight for attics up to 1,200 square feet
- Pre-painted galvanized steel dome; weatherwood
- Solar panel installs separate on the roof
- Wind, hail and impact resistant solar panel
- 5-year Limited Warranty includes 2-year Replacement Plus™ protection³
- Requires 384 square inches of intake vents⁴

¹ Optional Solar Controller available.

² Complies with Florida Building Codes; evaluated by Texas Department of Insurance (TDI).

³ See airvent.com for warranty details.

⁴ Air Vent's full line of intake vents are listed on the other side of this brochure.

