Air Vent 1170 CFM

Air Vent Roof Mount Attic Vent with Humidistat/Thermostat (1170 CFM) User Manual

Model: 1170 CFM

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your Air Vent Roof Mount Attic Vent with Humidistat/Thermostat. This electric-powered attic vent is designed to improve attic ventilation by using a thermostat to manage heat and a humidistat to prevent moisture buildup. Its low-profile design ensures it is unobtrusive when installed on your roof. Proper attic ventilation is crucial for maintaining the structural integrity of your home and improving energy efficiency.

2. Safety Information

WARNING: Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power at the circuit breaker before installing or servicing the unit.
- Installation should be performed by a qualified electrician or licensed contractor in accordance with all local and national electrical codes.
- Wear appropriate personal protective equipment, including gloves and eye protection, during installation.
- Ensure the mounting surface is structurally sound and can support the weight of the unit.
- Do not operate the unit if any parts are damaged or missing.
- Keep hands and foreign objects away from the fan blades during operation.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. Setup & Installation

3.1 Site Selection

Select a location on the roof that allows for optimal airflow and is away from obstructions. Roof-mount power vents are ideal for hip roofs. Consider the aesthetic impact, as the low-profile dome is designed to be unobtrusive when installed on the roof face slanting away from the front of your home.

3.2 Determining Required CFM

To ensure proper attic ventilation, the Home Ventilation Institute recommends a system that provides at least 10 air exchanges per hour. Use the following formula to determine the fan capacity (CFM - cubic feet of air moved per minute) needed:

Attic Square Feet × 0.7 = Required CFM

For roofs with a pitch of 7/12 or higher, add 20% more CFM capacity to account for the larger volume of attic space. For roofs 11/12 and higher, add 30% more CFM capacity.

3.3 Mounting the Unit

The vent features an oversized 24" x 24" G-90 galvanized base, designed for easy nailing and flashing. The pre-painted 22-gauge galvanized steel dome is durable, and the raised dome design facilitates greater airflow and easier flashing during installation. Ensure the unit is securely fastened to the roof structure. The included screws are painted to match the dome color for a seamless appearance.

Figure 1: Air Vent Roof Mount Attic Vent. This image shows the low-profile dome and the galvanized base designed for roof mounting.

3.4 Electrical Connection

Connect the unit to a dedicated electrical circuit as per local electrical codes. The unit operates on standard household current and has an amperage of 4.3 Amps. Ensure all connections are secure and properly insulated.

4. Operation

The Air Vent Roof Mount Attic Vent is equipped with both an automatic thermostat and a humidistat for optimal attic climate control.

4.1 Thermostat Function

The integrated thermostat automatically activates the fan when the attic temperature reaches a preset level, effectively fighting heat buildup during warmer months. This helps to reduce cooling costs and extend the life of your roof. The thermostat is preset and adjustable for maximum homeowner convenience.

4.2 Humidistat Function

The humidistat monitors the humidity levels within the attic. When humidity exceeds a preset threshold, the fan will activate to help prevent moisture buildup. This is crucial for preventing mold, mildew, and wood rot, especially in humid climates or during colder seasons when condensation can occur.

4.3 Thermal Overload Protection

For enhanced safety, the unit includes thermal overload protection. This important safety feature automatically shuts off the motor if the fan overheats, preventing potential damage to the unit or fire hazards.

5. Maintenance

Your Air Vent Roof Mount Attic Vent is designed for minimal maintenance. However, periodic checks are recommended to ensure optimal performance.

- **Annual Inspection:** Annually, inspect the vent from the attic and the roof exterior. Check for any debris that might obstruct airflow, such as leaves or bird nests.
- **Screen Check:** The unit features a plastic screen that will not corrode or rust, and it won't vibrate or create noise. Ensure it remains clear of obstructions.
- **Dome Integrity:** Check the pre-painted 22-gauge galvanized steel dome for any signs of damage or wear.
- **Electrical Connections:** With power disconnected, visually inspect electrical connections for any signs of wear or corrosion.
- **Cleaning:** If necessary, gently clean the exterior of the dome with a soft cloth and mild detergent. Do not use abrasive cleaners.

Always disconnect power before performing any maintenance.

6. Troubleshooting

If your Air Vent Roof Mount Attic Vent is not operating as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Fan does not run.	No power supply. Thermostat/Humidistat not triggered. Thermal overload activated.	Check circuit breaker. Verify attic temperature/humidity is above set point. Allow unit to cool down; check for obstructions.
Excessive noise during operation.	Loose mounting. Debris in fan blades. Motor issue.	Ensure unit is securely mounted. Disconnect power and clear any debris. Contact customer support if motor noise persists.
Vent runs continuously.	Thermostat/Humidistat set too low/high. Continuous high attic temperature/humidity.	Check and adjust thermostat/humidistat settings. Ensure adequate intake ventilation for the attic.

If troubleshooting steps do not resolve the issue, please contact Air Vent customer support.

7. Specifications

Feature	Detail
Model	1170 CFM
Brand	Air Vent
Special Features	Automatic thermostat and humidistat
Color	Gray
Form Factor	Dish
Indoor/Outdoor Usage	Outdoor
Power Source	Corded Electric
Recommended Use	Ventilating
Heating Coverage (Ventilation Area)	Up to 1650 sq. ft. (for 1170 CFM model)
Amperage	4.3 Amps
Dome Material	Pre-painted 22-gauge galvanized steel
Base Dimensions	24"D x 24"W
Overall Dimensions (D x W x H)	24"D x 24"W x 6"H
UPC	715751977111
ASIN	B07PPJWHQR

8. Warranty & Support

For specific warranty information regarding your Air Vent Roof Mount Attic Vent, please refer to the documentation included with your purchase or visit the official Air Vent website.
If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a defect, please contact Air Vent customer support directly.

Manufacturer: Air Vent

Website: www.airvent.com (*Example link, please refer to actual manufacturer website*)

Contact Information: Refer to product packaging or manufacturer's website for current contact details.