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Quietcool AFR SMT ES-2.0

Quietcool AFR SMT ES-2.0 Smart Attic Fan User Manual

Model: AFR SMT ES-2.0

Brand: Quietcool

1. Introduction

This manual provides essential information for the safe and efficient operation of your Quietcool AFR SMT ES-2.0 Roof Mount Smart Attic Fan. Please read these instructions thoroughly before installation and use, and retain them for future reference. This smart attic fan is designed to improve attic ventilation, reduce heat buildup, and enhance overall home comfort and energy efficiency.



Image 1.1: Quietcool AFR SMT ES-2.0 Smart Attic Fan with its smart control hub and mobile app interface.

2. Safety Information

WARNING: Electrical shock hazard. Disconnect power before servicing. Installation should be performed by a qualified electrician or a trained professional in accordance with all local and national electrical codes.

- Always wear appropriate personal protective equipment (PPE) during installation, including gloves and eye protection.
- Ensure the fan is securely mounted to prevent accidental dislodgement.
- Keep hands and foreign objects away from the fan blades during operation.
- Do not operate the fan if any part is damaged or if the power cord is frayed.
- 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.
- The fan is designed for attic ventilation only. Do not use for other purposes.

3. Package Contents

Verify that all components are present before beginning installation:

- Quietcool AFR SMT ES-2.0 Attic Fan Unit
- Cut-out Template
- 20-foot Power Cord
- Smart Control Hub



Image 3.1: Overview of the Quietcool AFR SMT ES-2.0 Smart Attic Fan and its included components.

4. Setup and Installation

The Quietcool AFR SMT ES-2.0 is designed for roof-mount installation. Ensure proper attic ventilation is available (e.g., soffit vents) for optimal performance. Refer to the detailed installation manual for specific instructions and safety precautions.

4.1. General Installation Steps

1. **Choose Location:** Select a suitable location on the roof, typically near the ridge, ensuring adequate clearance in the attic.
2. **Cut Opening:** Use the provided template to mark and cut the opening in the roof decking.
3. **Prepare Flashing:** Depending on your roof type (shingle or tile), prepare the flashing to integrate seamlessly with the roofing material.
4. **Mount Fan:** Secure the fan unit to the roof structure, ensuring a watertight seal.
5. **Connect Power:** Route the 20-foot power cord to an accessible power outlet.
6. **Install Smart Control Hub:** Mount the Smart Control Hub in a convenient location within the attic and connect it to the fan.

4.2. Installation Videos

For visual guidance, please refer to the official installation videos provided by QuietCool:

AFR Shingle Installation Guide

Video 4.1: This video demonstrates the step-by-step process for installing the Quietcool AFR SMT ES-2.0 attic fan on a shingle roof,

covering preparation, mounting, and sealing.

AFR Tile Installation Guide

Video 4.2: This video provides detailed instructions for installing the Quietcool AFR SMT ES-2.0 attic fan on a tile roof, including specific considerations for tile roofing materials.

4.3. Optional Curb Flashing

Optional curb flashing is available for curb mounting on flat roofs, supporting roofs with a 3:12 pitch and below. This accessory is sold separately.

Video 4.3: A short preview demonstrating the optional curb flashing for flat roof installations.

5. Operation

The Quietcool AFR SMT ES-2.0 Smart Attic Fan features three speeds and smart app control for automated operation based on temperature and humidity.

5.1. Smart App Control

Download the Quietcool app from the App Store (iOS) or Google Play Store (Android) to control your attic fan. The app allows you to:

- Monitor current attic temperature and humidity.
- Activate Smart Mode for automated fan operation.
- Set custom temperature and humidity thresholds for fan activation and deactivation.
- Adjust fan speed (Low, Medium, High).
- Set timer modes.

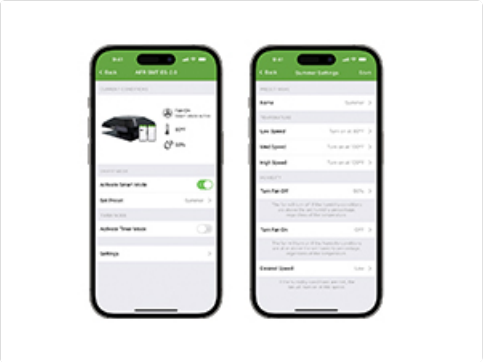


Image 5.1: Screenshot of the Quietcool smart app displaying current conditions and customizable settings for the attic fan.

5.2. Thermostat and Humidistat

The integrated thermostat and humidistat allow the fan to operate automatically, turning on when attic temperatures or humidity levels exceed your set points, and turning off when conditions normalize. This ensures efficient ventilation without constant manual adjustment.

5.3. Speed Settings

The fan features a three-speed, brush-free Electronically Commutated Motor (ECM), offering flexibility in airflow and energy consumption:

- **Low Speed:** Ideal for maintaining consistent ventilation with minimal energy use (as low as 24.6 watts).

- **Medium Speed:** Provides increased airflow for moderate heat or humidity conditions.
- **High Speed:** Delivers maximum airflow (up to 1950 CFM) for rapid heat or moisture removal.

5.4. Product Overview Video

AFR SMT ES 2.0 Overview

Video 5.2: This video provides a comprehensive overview of the Quietcool AFR SMT ES-2.0 Smart Attic Fan, highlighting its features and benefits.

6. Maintenance

The Quietcool AFR SMT ES-2.0 is designed for minimal maintenance. Regular inspection is recommended to ensure optimal performance.

- **Annual Inspection:** Annually, inspect the fan blades for any debris buildup. Ensure the fan housing and flashing are free from damage and that the seal remains watertight.
- **Cleaning:** If necessary, gently clean the fan blades with a soft cloth. Ensure power is disconnected before any cleaning.
- **Ventilation:** Verify that attic intake and exhaust vents (e.g., soffit vents, ridge vents) are clear and unobstructed to allow for proper airflow.
- **Power Cord:** Check the power cord for any signs of wear or damage. Replace if necessary.

7. Troubleshooting

If you encounter issues with your Quietcool AFR SMT ES-2.0, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Fan does not turn on	No power; Smart Control Hub settings; Fan motor issue	Check power connection; Verify app settings (temperature/humidity thresholds, timer); Consult a qualified technician if motor issue is suspected.
Fan runs continuously	Smart Control Hub settings; High attic temperature/humidity	Adjust app settings for temperature/humidity turn-off points; Ensure attic is not excessively hot or humid.
Excessive noise during operation	Debris in fan blades; Loose mounting; Motor bearing wear	Disconnect power and check for debris; Ensure fan is securely mounted; Contact support if noise persists after checking.
App connectivity issues	Wi-Fi signal; Bluetooth connection; App malfunction	Ensure strong Wi-Fi signal near the Smart Control Hub; Re-pair Bluetooth if necessary; Restart the app or reinstall it.

8. Specifications

Feature	Detail
Model Name	AFR SMT ES-2.0

Feature	Detail
Brand	Quietcool
Air Flow Capacity	Up to 1950 CFM
Wattage	As low as 24.6 watts (on low speed)
Number of Speeds	3
Motor Type	Brush-free Electronically Commutated Motor (ECM)
Control Method	Smart App Control (Thermostat & Humidistat)
Power Source	AC/DC
Voltage	120 volts
Noise Level	50 dB
Product Dimensions	31"D x 29"W x 13"H
Item Weight	31 pounds
Material	Metal (Alloy Steel Blades)
Finish Type	High-quality UV resistant paint coating
Installation Type	DIY Roof Mount
Included Components	Fan, cut-out template, power cord, Smart Control Hub

9. Warranty and Support

For warranty information and customer support, please refer to the official Quietcool website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.
You can visit the official Quietcool store for additional product information and support:Quietcool Store on Amazon

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