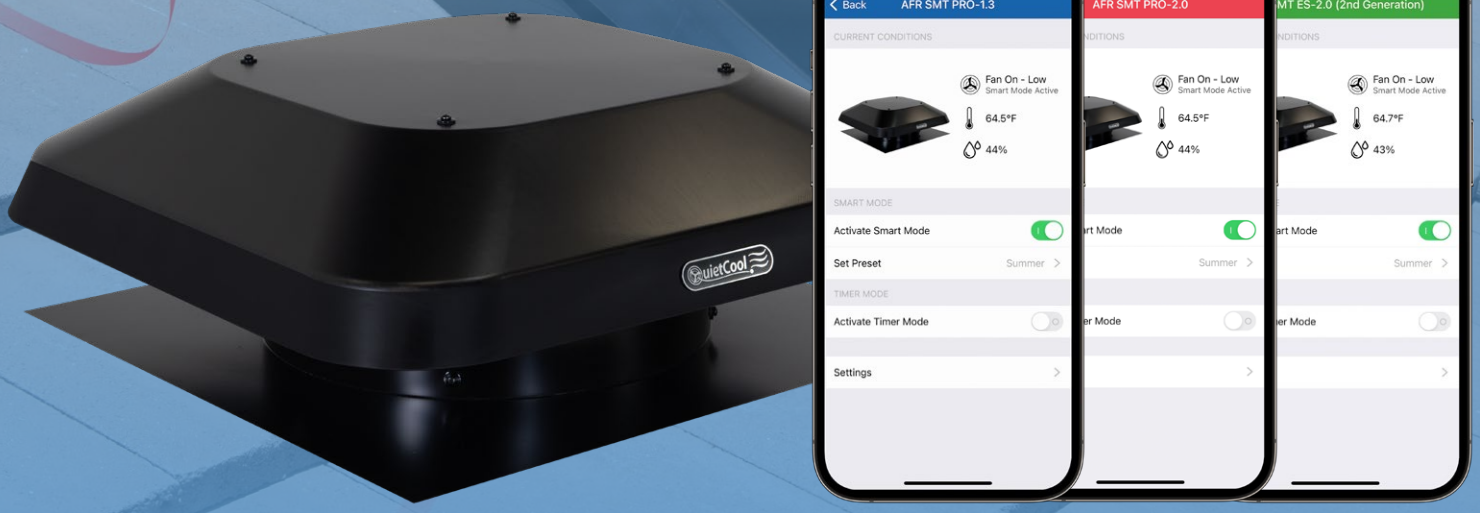
QuietCool®
ADVANCED ROOF MOUNT FANS

# OWNER'S GUIDE

## SMART ATTIC ROOF MOUNT FAN

**AFR SMT PRO-1.3**
**AFR SMT PRO-2.0**
**AFR SMT ES-2.0**




**DO NOT THROW AWAY!**

SERIAL NUMBER FOR FAN IS LOCATED ON THE BACK COVER OF THE OWNER'S GUIDE.

**LEAVE WITH HOMEOWNER**

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## WARNINGS

**CAUTION: This unit has an unguarded impeller. Do not use in locations readily accessible to people or animals.**

**CAUTION: Do not operate any fan with a damaged cord or plug. Discard fan or return to an authorized service facility for examination and/or repair.**

**CAUTION: Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.**

**CAUTION: Automatically started device. To reduce the risk of injury, disconnect from power supply before servicing. Do not use fan with any solid state speed control device. For residential use only.**

**WARNING: To reduce the risk of fire, electric shock or injury, do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer).**


**QC MANUFACTURING, INC.**
26040 YNEZ ROAD
TEMECULA, CA 92591


15 YEAR WARRANTY

US PATENT 11,175,056 11,460,204 OTHER PATENTS PENDING

MADE IN USA WITH DOMESTIC & FOREIGN PARTS

# 1. SYSTEM OVERVIEW

## 1.1 INTRODUCTION

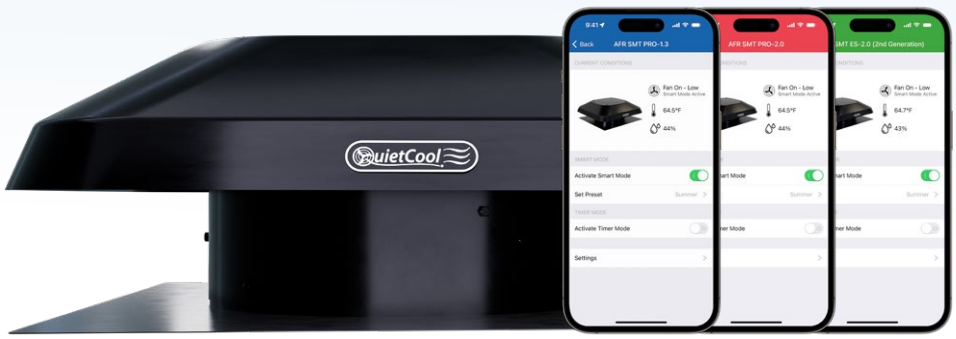
## CONGRATULATIONS

**on the purchase of your new QuietCool Smart Attic Fan!**

QuietCool Attic Fans are the best in the business. New for 2023, our Smart Line of roof mount attic fans have been completely re-designed! With a new hood design, integrated wildlife guard, and new flashing options, the AFR line is better than ever!

With the QuietCool Smart Control App, you can see your current attic temperature and humidity, modify the temperatures for the multiple speeds of the fan, setup presets for the different seasons of the year, and even operate your fan on a timer!

QuietCool Attic Fans work almost everywhere, anytime. During the summer, an attic can be 40-50 degrees hotter than the outside temperature, which in turn heats up the house much faster. With an attic fan, you can cool the attic to the same temperature as it is outside, greatly reducing the house from heating as quickly.




## 1.2 FEATURES

+ High Efficiency Multi-Speed Motors
+ High-quality Hybrid Black Polyester Paint Coating
+ App Based Smart Control
+ Designed and Built in California
+ 15 Year Warranty

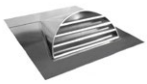
## 1.3 SYSTEM VENTING REQUIREMENTS

**VERY IMPORTANT: 1 SQUARE FOOT OF NET FREE VENT AREA PER 750 CFM**

**RECOMMENDED: 2 TO 4 SQUARE FEET OF INLET VENTS PER FAN**

Venting plays a very significant role in the performance of QuietCool fans. QuietCool recommends a minimum of 1 SQ. FT. of venting for every 750 CFM in the QuietCool system. If an attic has at least 1:750 attic venting, the QuietCool system will operate efficiently and effectively. If an attic has less than 1:750 attic venting, the system may not operate as efficiently, or effectively, as it could with 1:750 attic venting. But don't worry, the system will still operate if there is not enough venting.

Insufficient venting is a very simple problem to fix. Roofing contractors can add extra venting to most homes simply and easily. The most common types of venting is shown in the chart below.

| Vent Type | Model Type | Average Size | Venting Sq. Ft. |
|---|---|---|---|
| Gable vent | | 12" x 19.5" | 1.20 |
| Dormer Vent |  | 14" x 8" | 0.70 |
| Ridge Vent | | 4' - 12' | 0.125 per ft |
| Soffit Vent | | 16" x 4"<br>16" x 6"<br>16" x 8" | 0.19<br>0.29<br>0.39 |
| O'Hagin Vent | | Low/Medium Profile<br>Tapered Low Profile<br>Low Profile Flat<br>High Profile | 0.5<br>0.6<br>0.68<br>0.68 |

*Note: This table is only a guideline and is not a guarantee of venting capacity.

### INCLUDED IN THE BOX

+ QuietCool Smart Attic Fan
+ QuietCool Smart Control Hub
+ Hardware Kit
+ Cut-out Template

### HARDWARE KIT CONTENTS

A. (5) All-Purpose Screws
*4 for Hub, 1 extra*

B. (9) Roofing Fasteners
*8 for fastening AFR to the roof, 1 extra*

READ BEFORE ATTEMPTING TO INSTALL AN AFR FAN

# GETTING STARTED

**NOTE: Always follow local building codes because the fan may require specific fasteners or anchoring systems not discussed in this installation guide. If installing this product in designated high velocity wind zone areas in Florida or Texas, review applicable building code requirements for additional installation instructions. Installation should be done by a licensed roofing contractor.**

**IMPORTANT: Do not cut through any rafters or structural members while cutting the fan hole. Only cut out the roof decking.**

# GENERAL SAFETY INFORMATION

1. **READ INSTRUCTIONS** - All safety and operation instructions must be read.
2. **RETAIN INSTRUCTIONS** - The safety and operating instructions should be kept for future reference.
3. **HEED WARNINGS** - All warnings should be followed.
4. **FOLLOW INSTRUCTIONS** - All installation and operating instructions should be followed.
5. **WATER** - The QuietCool system should not be used near water.
6. **HEAT** - The QuietCool system should be situated away from heat sources.
7. **DAMAGE REQUIRING SERVICE** - Only qualified service personnel should service the QuietCool system. The user should not attempt to service the product.
8. **SAFETY PRECAUTIONS** -
   - + Do not install the fan in wet or windy conditions
   - + Tie-off both yourself and your equipment when working on steep pitched roofs to avoid falls
   - + Wear safety glasses and protective gloves when using power tools
   - + Always wear slip-resistant shoes when working on the roof
   - + Do not cut through any rafters or structural members of the roof during installation

# TOOLS/MATERIALS YOU WILL NEED

+ Cordless Drill with Nut Driver
+ Roofing Fasteners
+ Reciprocating Saw
+ Measuring Tape
+ Weatherproof Roofing Grade Sealant
+ Roofing Knife
+ Ladder Marker or Carpenter Pencil
+ Optional secondary flashing for tile/cement roofs
+ Optional curb flashing for flat roofs

# CHOOSING THE RIGHT LOCATION

Choose a location to install your QuietCool roof mounted fan that allows for balanced airflow throughout the attic space. We always recommend the fan to be installed centrally located on the roof **three feet below the ridge line**. This will allow you to access the fan very easily. Your roof mount fan should not be installed any closer than **within 5 feet to an existing passive vent, ridge vent, or additional fan unit**.

# ROOF PITCH REQUIREMENTS (SEE BELOW BASED ON INSTALLATION TYPE)

AFRs installed with the primary or optional secondary flashing: **roofs with 3:12 to 8:12 roof pitch**
AFRs installed with the optional curb flashing: **roofs with less than 3:12 roof pitch**
AFRs installed with the optional slope adapter: **roofs with 9:12 to 12:12 roof pitch**

**OPTIONAL ACCESSORIES**

+ Secondary Flashing for tile or cement roofs (part number FLA-SEC-3743)
+ Curb Flashing for flat roofs (part number FLA-CRB-2222)
+ Slope Adapter for sloped roofs (part number CYL-AFR-SLPADPTR)

**IMPORTANT: Installing the AFR without the use of a QuietCool flashing or accessory, using an improper flashing based on the guidelines above, or installing the AFR on roofs with a pitch greater than 8:12 without use of a slope adapter will void the warranty of the unit and may compromise the integrity of your roof. Only install the AFR using QuietCool flashings or accessories appropriate to the roof in which you are installing the AFR on, and within the guidelines stated above.**

# 2. INSTALLATION

## 2.1 INSTALLING AFR (Shingle Roofs from 3:12 to 8:12)

**Installation Video:**
Watch the video by scanning the QR code or visit
www.QuietCoolSystems.com/support

**NOTE: This installation utilizes the included Primary Flashing of the AFR. For installing the AFR on a tile or cement roof, please skip to page 8.**

1. Determine in which area you would like to install your QuietCool AFR.

2. From inside the attic, find the center point between the two roof rafters and mark it as the center of the fan hole. Partially insert a screw into the center point mark. (see Figure 2.1A)

3. Go to the roof. Using the screw as a reference point and the provided template, trace out the 17 1/4" diameter circle. (see Figure 2.1B)

4. Use a reciprocating saw to cut out the traced hole pattern from the roof decking. Remove the cut out decking material from around the hole as needed. (see Figure 2.1C)

5. Insert the reciprocating saw sideways between the shingles and roof decking. Starting at the 3 o'clock position of the vent hole, begin cutting in a sweeping motion under the shingles, cutting through any roofing nails or staples. Continue cutting counter-clockwise around the vent hole until reaching the 9 o'clock position.

6. Using a roofing knife, cut a 4 inch horizontal slit in the shingles at the 9 o'clock and 3 o'clock positions of the hole, allowing the fan's flashing to slide underneath the shingles. (see Figure 2.1D)

7. Remove the fan hood for easier installation. This will help you line up the fan to the hole in the roof.

8. Lifting the fan unit up at an angle, apply weatherproof sealant to the bottom side of the fan unit. This will help keep the fan in place and create a watertight seal. (See Figure 2.3E)

**NOTE: Be sure to use a generous amount of weatherproof sealant to create a watertight seal.**

**NOTE: There is a vertical seam on the AFR housing. Ensure this seam is positioned toward the bottom of the roof, opposite the peak.**

Figure 2.1A

Figure 2.1B

Figure 2.1C

Figure 2.1D

Figure 2.1E

Figure 2.1F

Figure 2.1G

Figure 2.1H

Figure 2.1I

Figure 2.1J

Figure 2.1K

9. Slide the fan unit underneath the shingles until the fan reaches the top of the hole and apply more sealant. (See Figure 2.1F)

10. Using a minimum of 8 roofing fasteners, fasten the fan to the roof through the primary flashing, securing the fan to the roof. One (1) fastener is required at each corner. One (1) fastener is required at the midpoint of each side. The fasteners must be long enough to penetrate the primary flashing and completely through the roof decking. To prevent leaking, be sure to apply weatherproof sealant on the fasteners. (see Figure 2.1G)

11. Secure the shingles by re-nailing them into the roof and applying weatherproof sealant. (See Figure 2.1H & I)

12. Apply weatherproof sealant to the seam between the AFR fan housing and primary flashing. This seam must be sealed to create a weatherproof barrier between the fan and the flashing. (see Figure 2.1J)

**NOTE: This seam exists to allow the use of interchangeable flashings. If this seam is not sealed, water may leak in between the fan housing and the flashing. Be sure to use a generous amount of weatherproof sealant to create a watertight seal.**

13. Re-install the hood onto the fan unit and remove protective film. (see Figure 2.1K)

## 2.2 INSTALLING AFR
## (Tile or Cement Roofs from 3:12 to 8:12)

**Installation Video:**
Watch the video by scanning the QR code or visit
www.QuietCoolSystems.com/support

**NOTE: This installation requires the purchase of the QuietCool Secondary Flashing accessory (part number FLA-SEC-3743)**

**NOTE: When applying weatherproof sealant, be sure to use a generous amount to create a watertight seal.**

1. Determine in which area you would like to install your QuietCool AFR.

2. From inside the attic, find the center point between the two roof rafters and mark it as the center of the fan hole. Partially insert a screw into the center point mark.

3. Go to the roof and find the area in which you marked your fan hole with the screw. Move the tiles out of the way to expose a large area around where you will cut the fan hole. (see Figure 2.2A)

4. Using the screw as a reference point and the provided template, trace out the 17 1/4" diameter circle. (see Figure 2.2B)

5. Use a saw to cut out the traced hole pattern from the roof decking. Remove the cut out decking material from around the hole as needed. (see Figure 2.2C)

6. Apply weatherproof barrier to the roof.

7. Remove the fan hood for easier installation. This will help you line up the fan to the hole in the roof and shape your tile.

**NOTE: Ensure the vertical seam on the AFR housing is positioned toward the bottom of the roof, opposite the peak.**

9. Lifting the fan unit up at an angle, apply weatherproof sealant to the bottom side of the fan unit. This will help keep the fan in place and create a watertight seal. (see Figure 2.2D) Position the fan so that it is centered with the vent hole.

10. Using a minimum of 8 roofing fasteners, fasten the fan to the roof through the primary flashing, securing the fan to the roof. One (1) fastener is required at each corner. One (1) fastener is required at the midpoint of each side. The fasteners must be long enough to penetrate the primary flashing and completely through the roof decking. To prevent leaking, be sure to apply weatherproof sealant on the fasteners. (see Figure 2.2E)

Figure 2.2A

Figure 2.2B

Figure 2.2C

Figure 2.2D

Figure 2.2E

Figure 2.2F

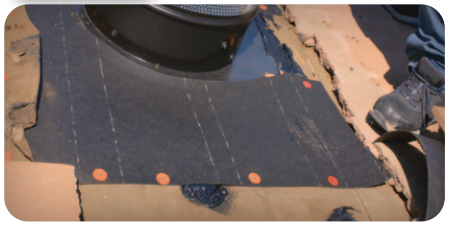


Figure 2.2G

Figure 2.2H

Figure 2.2I

Figure 2.2J

Figure 2.2K

Figure 2.2L

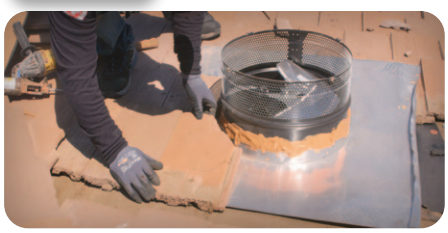


Figure 2.2M

11. Once complete, apply more weatherproof barrier around the fan unit on top and bottom. Be sure to apply a generous amount of weather proof sealant underneath the weatherproof barrier and install with roofing nails. (see Figure 2.2F)

12. Apply weatherproof sealant to the seam between the AFR fan housing and primary flashing. This seam must be sealed to create a weatherproof barrier between the fan and the flashing. (see Figure 2.2G)

**NOTE: This seam exists to allow the use of interchangeable flashings. If this seam is not sealed, water may leak in between the fan housing and the flashing. Be sure to use a generous amount of weatherproof sealant to create a watertight seal.**

13. Using the QuietCool Secondary Flashing accessory (part number FLA-SEC-3743), gently slide the flashing over the fan housing and hood mounting tabs. (see Figure 2.2H)

**NOTE: The secondary flashing was designed to work with almost all types of tile and cement roofs. The flashing can be molded to create the shapes of more unique style roofs such as S-Tile and M-Tile.**

**NOTE: Be sure that the secondary flashing extends onto the roof tile at the bottom of the flashing. This ensures that water cannot leak in between roof tiles.**

15. Form the secondary flashing to close the gap between the flashing and the fan housing. The aluminum is very malleable so this should be done easily using your hands. Using weatherproof sealant, seal the gap between the fan housing and secondary flashing. (see Figure 2.2I)

16. Bend the left and right side edge of the secondary flashing at a 90° angle to create a water channel on either side of the flashing. This will help direct water to flow down and back onto the roof rather than side to side under the tiles. (see Figure 2.2J)

17. Using an angle grinder, cut the removed tiles to fit them to the shape of the fan and secondary flashing. (see Figure 2.2K)

18. Re-install the tile around the fan unit. (see Figure 2.2L)

19. Apply weatherproof sealant on the bottom side of the secondary flashing to secure the flashing to the roof tile.(see Figure 2.2M)

20. Re-install the hood onto the fan unit and remove the protective film.

# 3. WIRING

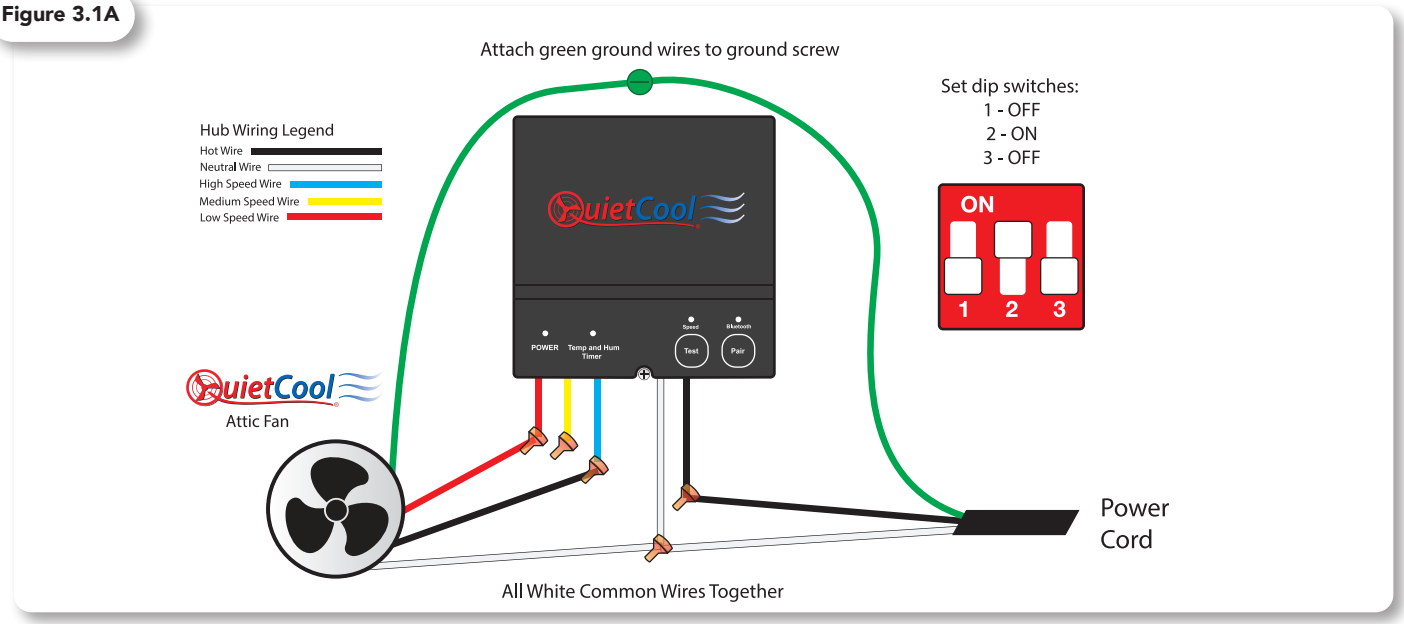
**IMPORTANT: Wiring Diagrams are for examples ONLY. Wiring should be done by a licensed electrician following local building and electrical codes and/or NEC guidelines.**

**NOTE: Your fan came with the Smart Control Hub pre-wired to a power cord for testing purposes before installation. If you would like to hard-wire the fan, or it is required by your local building codes, please follow the wiring instructions below.**

## 3.1 TWO SPEED WIRING - (AFR SMT PRO-1.3 & AFR SMT PRO-2.0)

1. Using a wire nut, connect the black wire from the power source to the black wire from the Hub.
2. Connect the white wire from the power source and the white wire on the fan to the white wire from the Hub.
3. Connect the black wire from the fan to the blue wire on the Hub
4. Connect the red wire from the fan to the red wire on the Hub
5. Cap the yellow wire from the Hub.
6. Ground the green wire from the fan and the green wire from the power cord to the ground screw in the Hub.
7. Set the dip switch positions inside the Hub as shown in the Figure 3.1A.
8. Power-on the Hub. The Power LED indicator will be lit.
9. Press the Test button to make sure the fan works. The Test LED indicator will blink three times every two seconds indicating 2-speed and the fan will be on high. Press the Test button again and the fan will switch to low speed and the Test LED indicator will blink once every two seconds. Press the Test button again and the fan should shut off and the LED will be off.
10. If the fan doesn't operate as described in step 9, please check the dip switch position/wiring.

**Figure 3.1A**



## 3.2 THREE SPEED WIRING - (AFR SMT ES-2.0)

1. Using a wire nut, connect the black wire from the power cord and the black wire from the fan to the black wire from the Hub.

2. Connect the white wire from the power cord and the white wire on the fan to the white wire from the Hub.

3. Connect the red wire from the fan to the red wire on the Hub

4. Connect the yellow wire from the fan to the yellow wire on the Hub

5. Connect the blue wire from the fan to the blue wire on the Hub

6. Ground the green wire from the fan and the green wire from the power cord to the ground screw in the Hub.

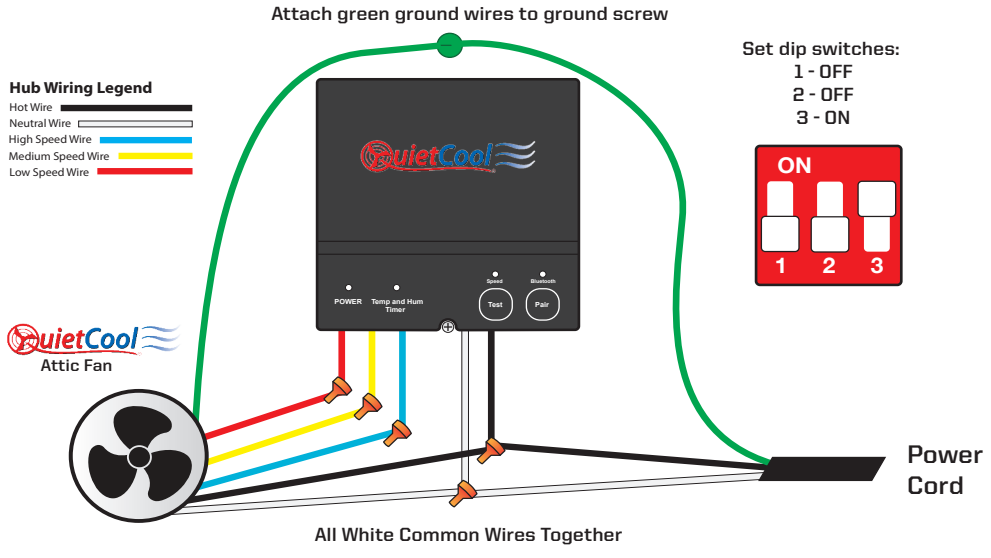
7. Set the dip switch positions inside the Hub as shown in Figure 3.2A.

8. Power-on the Hub. The Power LED indicator will be lit.

9. Press the Test button to make sure the fan works. The Test LED indicator will blink three times every two seconds indicating 3-speed and the fan will be on high. Press the Test button again and the fan will switch to medium speed and the LED will blink twice every two seconds. Press the Test button again and the fan will switch to low speed and the LED will blink once every two seconds. Press the Test button again and the fan should shut off and the LED will be off.

10. If the fan doesn't operate as described in step 9, please check the dip switch position/wiring.

**Figure 3.2A**



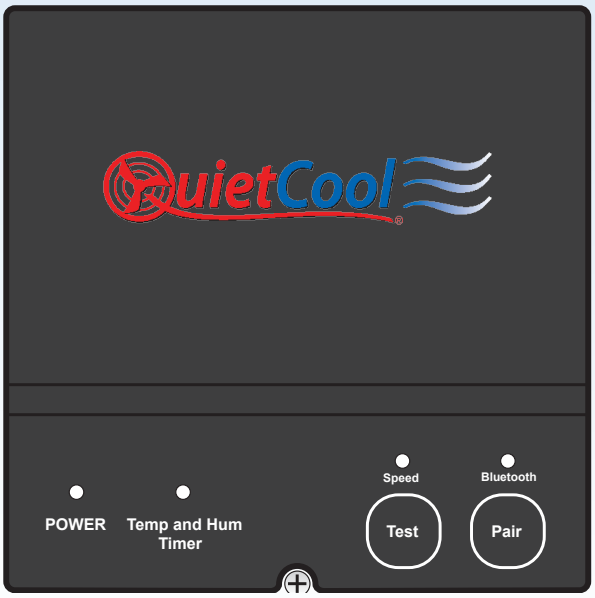
## 3.3 SMART CONTROL HUB - LED INDICATORS

- POWER Indicator
  - The Power LED indicator will always be lit when the Hub is connected to Power.
    - If this LED is not lit, check the power source.

- Temp and Hum | Timer Indicator
  - This LED indicator will light up as shown below:
    - Blinking: Timer Mode Active
    - Solid: Smart Mode Active

- Test Indicator
  - The Test LED indicator will light up as shown below when the Test button is pressed:
    - Two Speed Fan: blink three times every 2 seconds on HIGH, blink once every 2 seconds on LOW
    - Three Speed Fan: blink three times every 2 seconds on HIGH, blink twice every 2 seconds on MED, blink once every 2 seconds on LOW

- Pair Indicator
  - The Pair LED indicator will blink when making pair operations. Please see **SETTING UP YOUR FAN on page 15** for details on pairing.
  - The indicator will be lit up solid when a device is connected via Bluetooth.
  - The indicator will not be lit when no pairing operations are being made or no device is connected.



# 4. SYSTEM OPERATING INSTRUCTIONS

## 4.1 DOWNLOADING THE QUIETCOOL SMART CONTROL APP

Download the QuietCool Smart Control App onto your iOS or Android device.

Scan the QR code above or visit QuietCoolSystems.com/smart-control/ and click the link to download the app to your device.

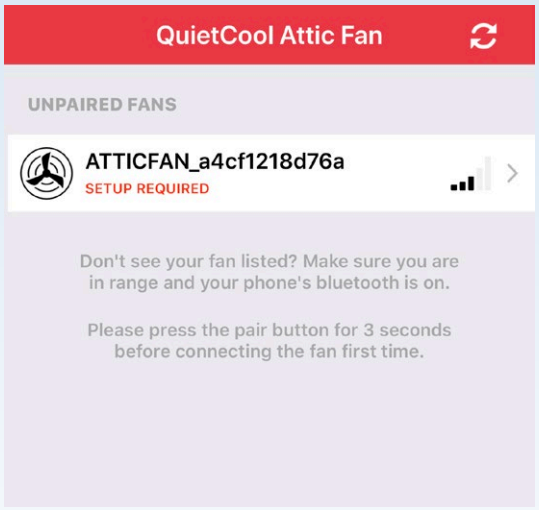
## 4.2 OPERATING THE QUIETCOOL SMART CONTROL APP

### HOME PAGE

This is the home page of the app and is presented as soon as the app is opened.

If you have not yet paired your phone to your Hub, it will state SETUP REQUIRED.

If you have paired your phone to your Hub, it will show a picture of the fan as well as the name of your fan.

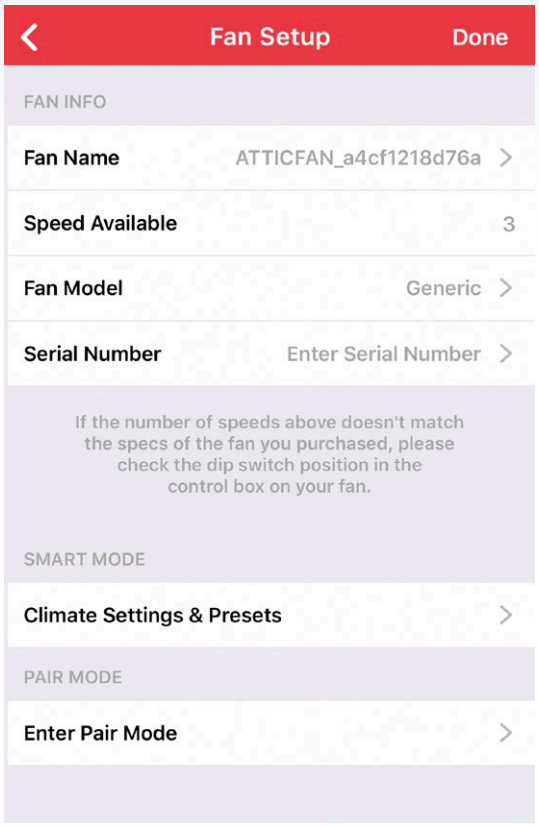


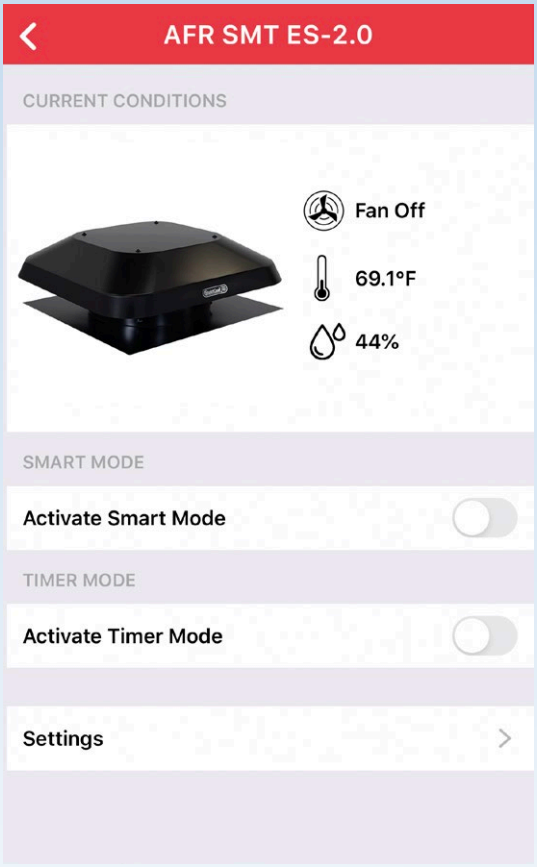

### FAN SETUP PAGE

This page is used to setup the fan for the first time.

You can quickly change the Fan Name, check if the speeds are set properly, change the Fan Model, enter the Serial Number and adjust the Climate Settings & Presets.

These settings can be accessed again after setup is done by clicking the Settings button on the Fan Control Page.

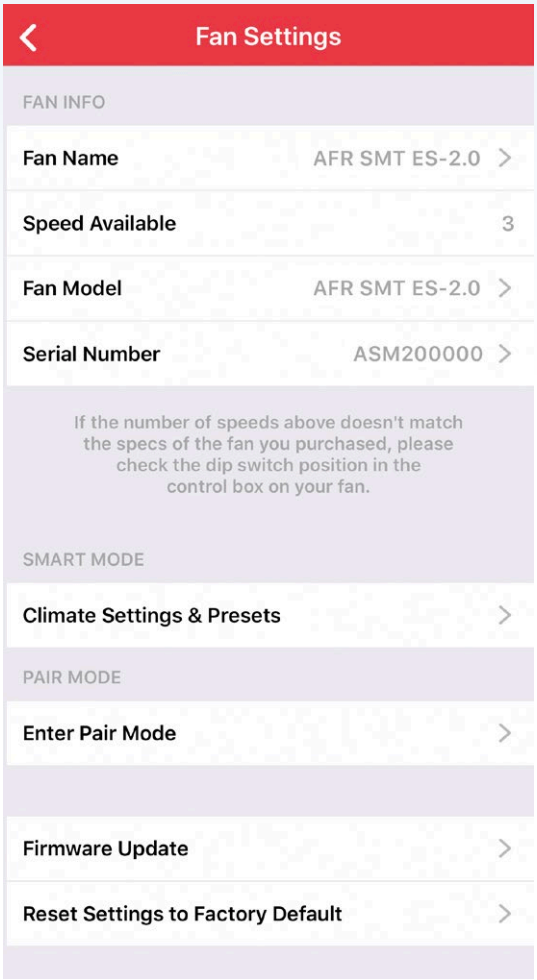





## FAN CONTROL PAGE

This page is accessed when you tap on your fan from the Home Page.

On this page you can see the current conditions in your attic, activate the different modes of the fan, and get to the Fan Settings page.




## FAN SETTINGS PAGE

This page is used to adjust the settings of the fan.

You can quickly change the Fan Name, check if the speeds are set properly, change the Fan Model, enter the Serial Number and adjust the Climate Settings & Presets.

You can also enter Pair Mode for remote pairing of devices, perform a Firmware Update, as well as reset all settings to factory defaults.

## SETTING UP YOUR FAN

Once your attic fan has power, open up the QuietCool Smart Control app. You will be taken to the Home Page. You should see your attic fan show up in the list of available fans.

A message indicates that setup is required. Press and hold the Pair button on the Hub until the LED indicator begins to blink.

**NOTE: You will need to initiate this Pairing process on each device you want to use to control your attic fan. Once the initial device is paired, you can use the "Enter Pair Mode" function from the app described on page 16. This will prevent you from having to access the Hub physically in the attic in order to perform pairing operations.**

Tap on the fan to start the setup process. Once you tap on the fan, you will be taken to the Fan Setup page.

On this page, you will be able to change the following settings:

- Fan Name
- Fan Model
- Serial Number

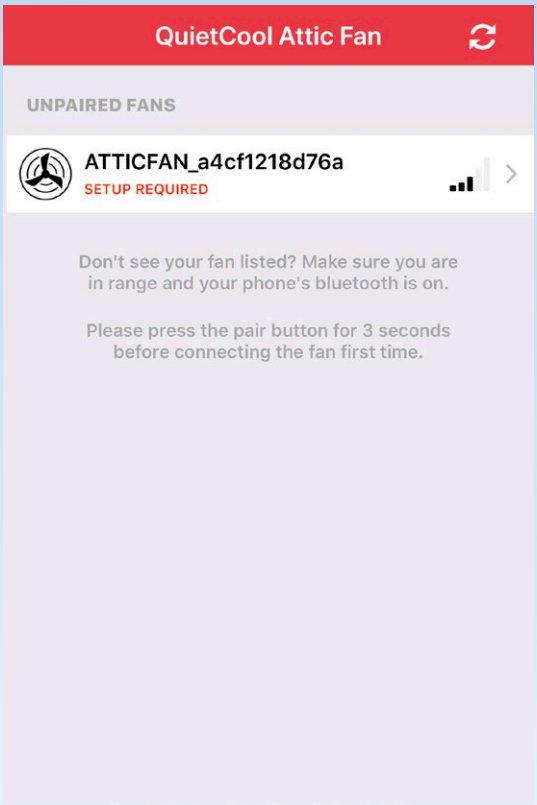
The Speeds Available section will tell you if you have connected the fan and set your dip switch properly.

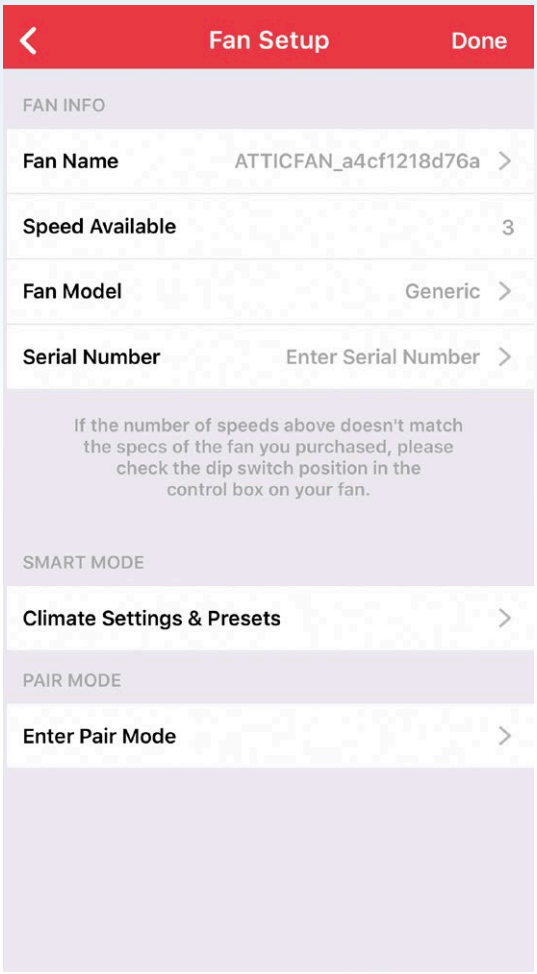
Make sure that this number matches the specification of the fan you purchased.

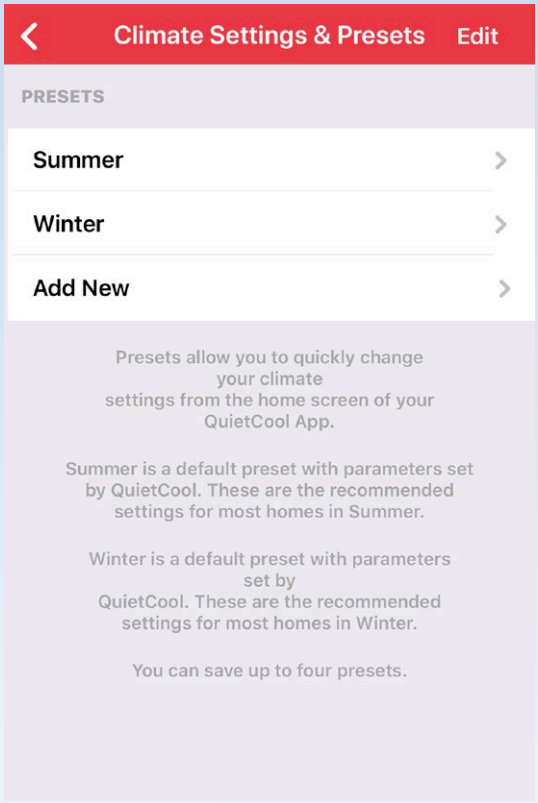
We are setting up an AFR SMT ES-2.0 which is a 3-speed fan.

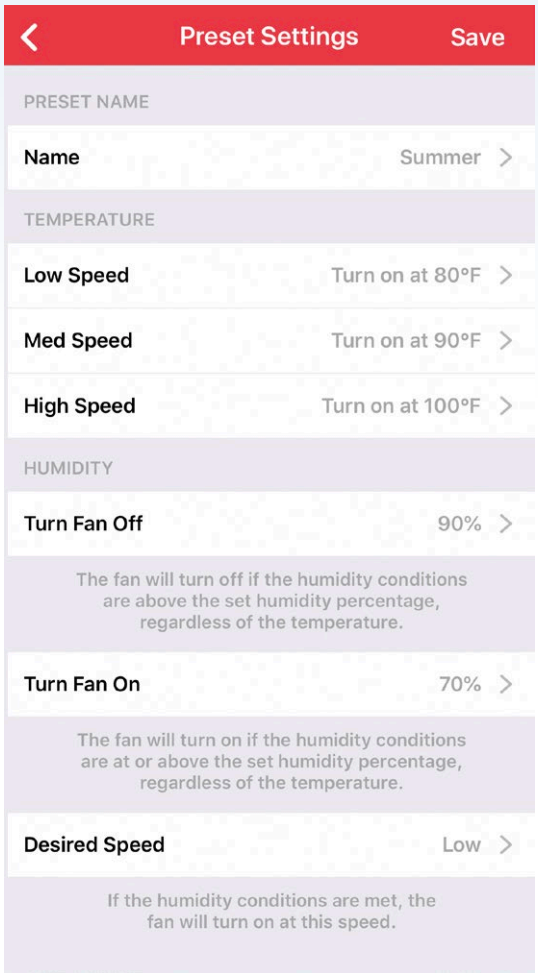
The QuietCool Smart Attic Fan Control has an innovative Smart mode that allows the fan to adjust the speed based on the temperature and humidity conditions in your attic. Tap Climate Settings & Presets to adjust these settings.

Within this mode there are two standard presets, Summer and Winter. You can modify these presets and add your own custom presets to allow quick setting changes on the fly.






## TEMPERATURE

- The settings you choose in this section will change what temperature the fan will come on at each set speed.

- Tap on any speed to adjust the temperature for each speed.

## HUMIDITY

- **Turn Fan Off:** This is the humidity percentage that will cause the fan to turn off. For example, the factory setting is set at 90%, meaning the fan will turn off if the humidity in the attic is 90% or higher. Tap this setting if you would like to adjust the percentage. If you do not want this feature, you can select OFF at the top of the list.

- **Turn Fan On:** This is the humidity percentage that will cause the fan to turn on, regardless if the temperature settings are not met. For example, the factory setting is set at 70%, meaning the fan will turn on if the humidity in the attic is higher than 70%, even if the temperature in the attic is below the temperature settings in the app. If you do not want this feature, you can select OFF at the top of the list.

- **Desired Speed:** This is the speed the fan will use if the humidity causes the fan to turn on.

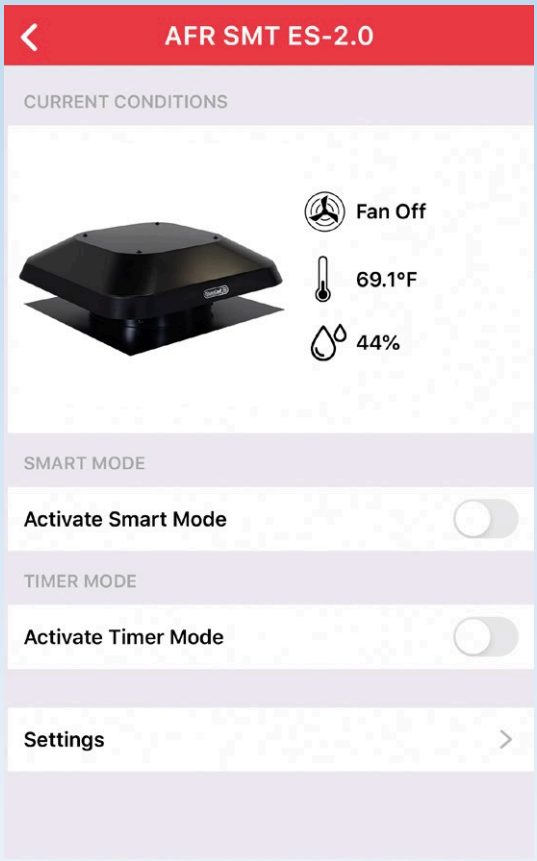
These settings will be saved into the memory of the Hub meaning all settings will sync between any additional devices you pair to the Hub.

Click Done to complete Fan Setup. You can always access these settings again from the Settings option on the Fan Control Page.

## FAN CONTROL PAGE

On the Fan Control page, you will see the current fan status, the current attic temperature, as well as the current attic humidity level.

You also have the option to Activate Smart Mode or Activate Timer Mode. You can also go into the Fan Settings page and adjust the settings that you setup in the first step.

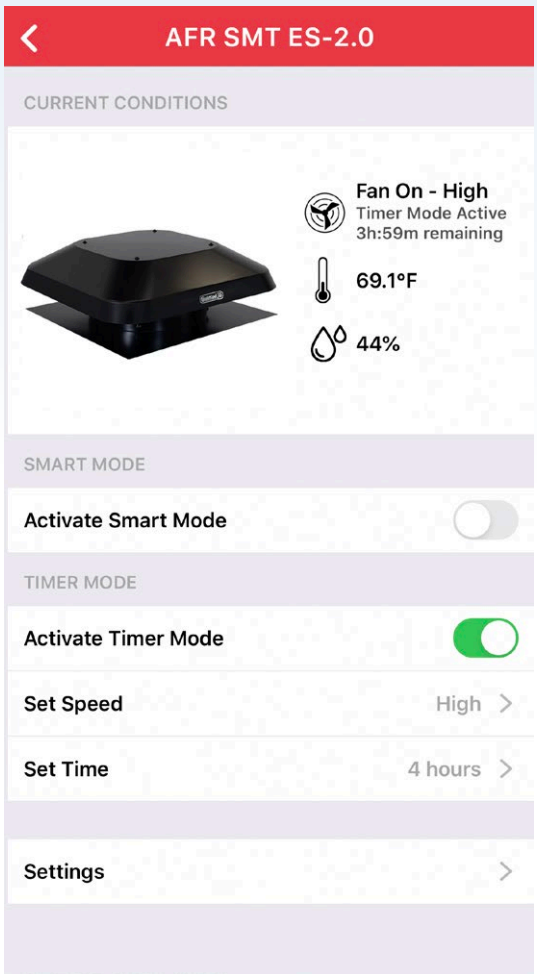


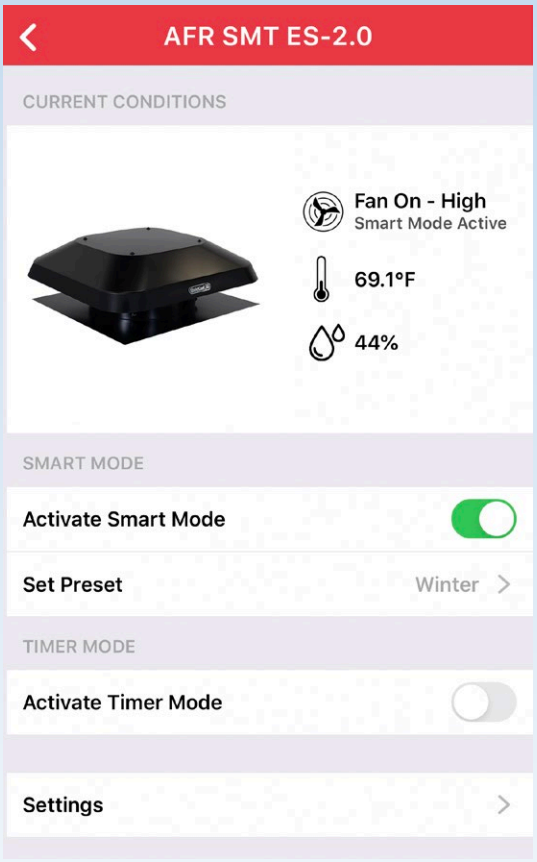

## TIMER MODE

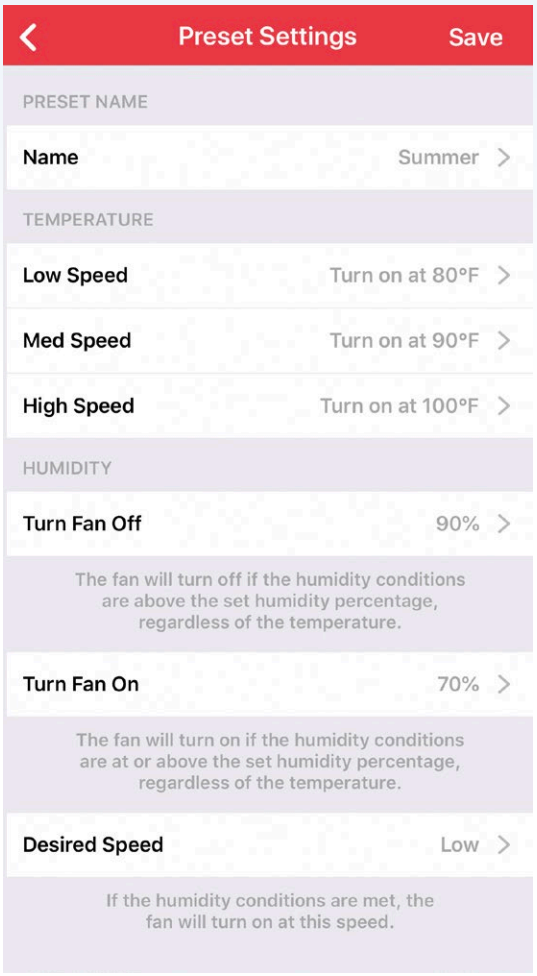
Timer Mode is a simple way to turn your attic fan on for a set amount of time at a set speed.

To activate Timer Mode, simply tap Activate Timer Mode. Once activated, you can select your speed by tapping Set Speed. You can also select your runtime by tapping Set Time.

When Timer Mode is active, you will see your remaining time left on the timer at the top of the screen.






## SMART MODE

Smart Mode will automatically change the speed based on the attic temperature and humidity.

To activate Smart Mode, simply tap Activate Smart Mode.

In Smart Mode, the first parameter that is checked is the Turn Fan Off humidity level. Regardless of the temperature in the attic, if the Humidity level in the attic is above the Turn Fan Off humidity setting, the fan will not turn on, or if it is already running, the fan will shut off.

If the humidity in the attic is below the Turn Fan Off humidity setting, the second parameter that is checked is the Attic Temperature. If the temperature inside the attic is within the set parameters in the app, the fan will turn on at the appropriate speed.

If the temperature in the attic is below any of the temperature parameters, the last parameter that is checked is the Turn Fan On humidity level. If the humidity level in the attic is above the Turn Fan On humidity parameter but below the Turn Fan Off humidity parameter, the fan will turn on at the Desired Speed.

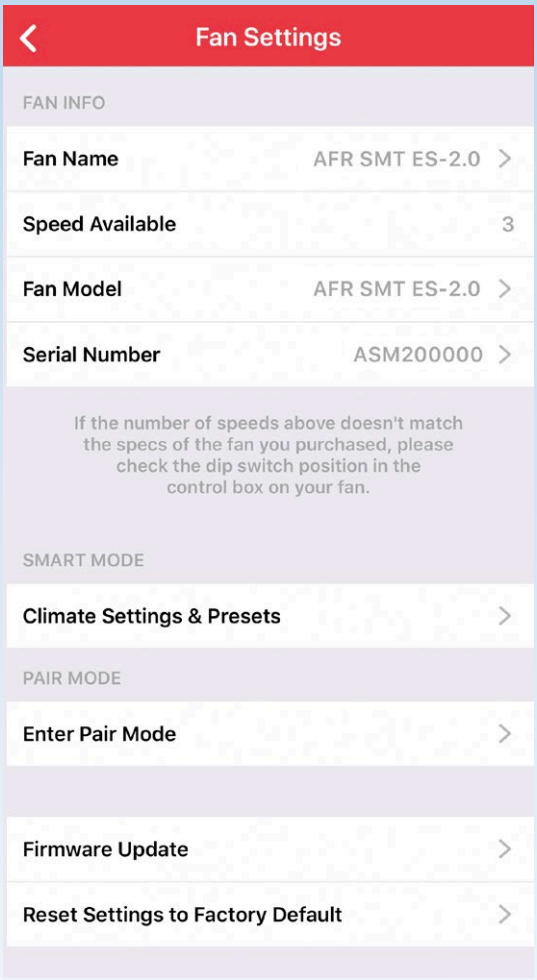
## PAIR MODE

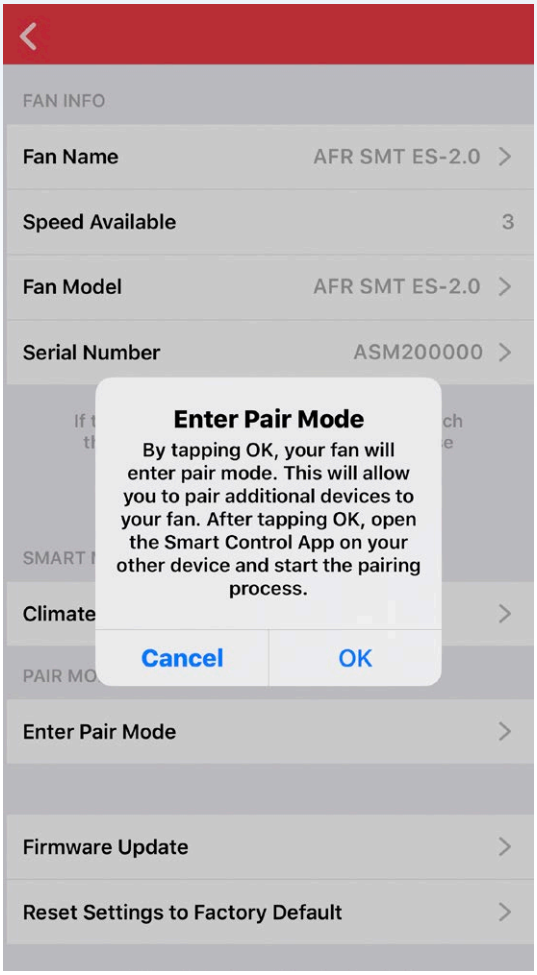
Pair Mode is a feature that was designed to prevent users from having to get into the attic to access the physical Hub in order to pair additional devices.

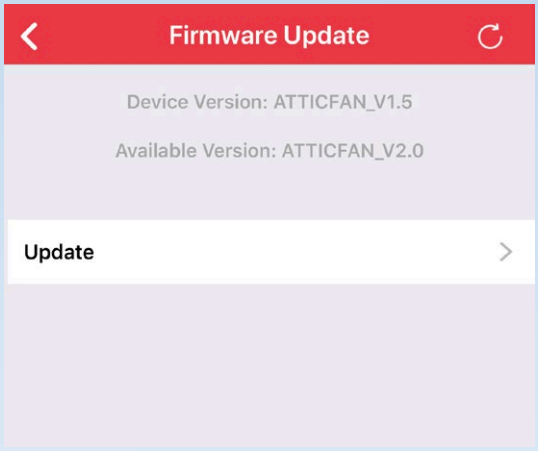
**NOTE: In order to use this feature, you must have one device that is already paired to the Fan Hub. If you do not have any devices that are currently paired to the Fan Hub, you will have to press the physical Pair button.**

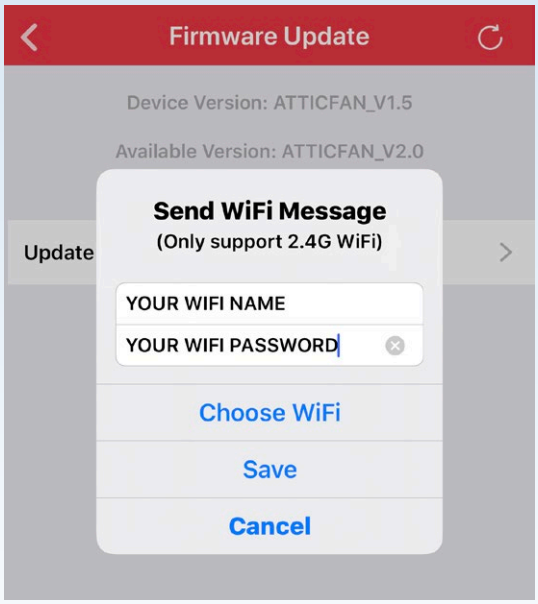
In the Fan Settings page, tap Enter Pair Mode. An alert box will come up on your screen indicating you are about to enter Pair Mode. Tap OK.

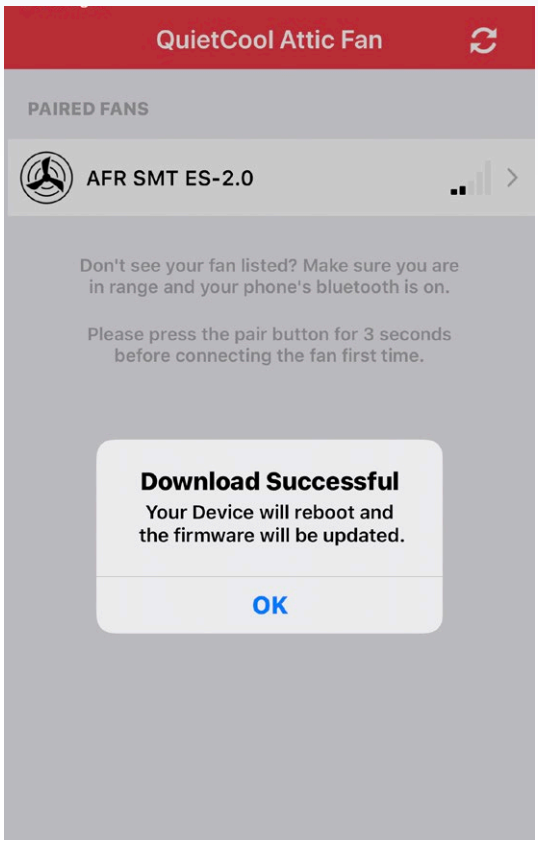
Now, on the device you are trying to pair, open up the Smart Control app and tap the fan. You will now be taken to the Fan Setup page and you are now paired.






## FIRMWARE UPDATE

Your attic fan includes a Firmware Update feature in order for us to update your Fan Hub to include bug fixes and additional features in the future.

We recommend checking for a new firmware update a few times per year.

To check for an available firmware update, go into the Fan Settings page and tap Firmware Update.

If there is no update available, an alert will popup indicating there is no available firmware update. At the top of the page you will see your current device version as well as what the available version is.

If there is an update available, you will be able to tap the Update button. Once you tap Update, an alert will popup asking you to type in your Wi-Fi details.

You cannot initiate a firmware update while your phone is on cellular so if you are not currently connected to a Wi-Fi network on your phone, tap Choose Wi-Fi. This will take you to your phone settings. Connect to your home Wi-Fi network and go back to the Smart Control app.

Once back in the app, your Wi-Fi network name will be pre-filled. Type in your Wi-Fi password and tap Save. The firmware update will now begin.

Once completed, an alert will popup indicating that the download was successful and your Hub will reboot. Your Hub is now updated.

## 4.3 FREQUENTLY ASKED QUESTIONS

### WHAT PROTOCOL DOES THIS CONTROL USE?

This control operates over Bluetooth to connect to your phone. The control uses Wi-Fi for firmware updates.

### WILL MY NEIGHBOR BE ABLE TO CONTROL MY FAN IF THEY HAVE THE SAME SET UP AS ME?

No. In order to connect to your Smart Attic Fan Control Hub, you must first pair your device by using the Pair button on the Hub.

### WHAT IS THE RANGE?

The range restriction between your phone and the attic fan is 50 ft through average household obstructions.

### WHY ARE ALL MY LIGHTS BLINKING ON THE HUB AND NOTHING IS WORKING?

If you're experiencing blinking lights on all LED indicators on the hub then it is an indication that your DIP switches are not selected, or multiple DIP switches are selected. Disconnect power, adjust your DIP switches, and the only light that should be lit is your RED power light.

### HOW DO I CHANGE THE DIP SWITCH TO THE CORRECT SPEED OF MY FAN?

You will need to disconnect power, make your adjustment inside the hub, and then reconnect power.

### CAN YOU CONNECT THE ATTIC FAN SMART CONTROL TO A SMART HOME SYSTEM LIKE ALEXA, GOOGLE HOME, OR APPLE HOMEKIT?

No, in the current configuration the Smart Attic Fan Control cannot connect to a smart home system. Smart home system control is not necessary as the fan runs on it's own and hardly ever needs manual control.

### WHAT HAPPENS IF I GET A NEW PHONE?

If you get a new phone, you will need to pair your new phone to the Hub. This is very easy to do if you still have your old phone, or have another phone in the home that is currently paired to the Hub. If you have another device that is paired to the Hub, follow the instructions on **page 16 for Pair Mode.** If you do not have any other devices in the home that are paired to the Hub, you will need to press the physical Pair button on the Hub.

## 4.4 SAFETY

This control features an innovative fire safety shut-off that will automatically turn the fan off if it detects a temperature above 182°F in your attic. The purpose of this is to shut off in the event of a house fire to prevent the spread of flames.

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

# ROOF MOUNT ATTIC FANS LIMITED WARRANTY

This warranty is extended to the original purchaser of this model or, if this unit is purchased and requires installation by a building contractor, to the original owner of the home. No subsequent purchaser of the unit or of a home in which it is installed is entitled to any of the benefits of this warranty. The QuietCool Product that you have purchased has a limited warranty from the date of purchase against defects in workmanship and materials. Please see attached chart below for warranty details. If you believe you received a defective product, call our customer service at 1-888-QUIETCOOL. Have proof of purchase available to validate the warranty. If it's necessary to send the defective part to QC Manufacturing, Inc., freight is paid by the customer. If found to be defective following examinations, any defective part will be replaced free of charge and returned freight prepaid. This warranty does not cover any labor costs, including those required for diagnosis, field repair or replacement or removal of any allegedly defective part. The company reserves the right to require and receive proof of purchase of the date of purchase before undertaking its obligations under this warranty. The right to require and receive proof of purchase of date of purchase extends to all licensed dealers of QC Manufacturing Inc. products.

## Limitations

QC Manufacturing, Inc. shall not be liable for, and this warranty does not apply to, any failure, defect or damage resulting from or connected with misuse, abuse, neglect or improper handling or staging , or installation not in strict adherence to QC Manufacturing's written instructions; unauthorized alteration to factory specs, lack of maintenance, lack of proper ventilation transportation damage, impact of foreign objects, fire, flood, earthquake, lightning, hurricane, hail, tornado or other violent storms, force majeure or other act of (g)God; or defects in failure of or damage caused by materials used as roofing base over which the product is installed or by movement, distortion, cracking or settling of walls or the foundation of the building. QC Manufacturing, Inc. reserves the right to discontinue or modify any of its products including, without limitation, color, and shall not be liable as a result of such discontinuation or modification, nor shall QC Manufacturing, Inc. be liable in the event replacement material may vary in color in comparison to the original product as a result of normal weathering.

This warranty does not cover damage caused by standing water. Applications exposed to salt spray or within 2 miles of the seacoast, must be maintained by washing with fresh water at least twice a year. Not doing so could cause warranty to be voided. This warranty is restricted to failures resulting from normal weathering and does not include coating failures caused by scratches, scrapes or any other unnatural damage including; improperly formed, fabricated or embossed material. If QC Manufacturing, Inc. replaces any product under this warranty, it may substitute products designated by QC Manufacturing, Inc. to be of comparable quality or price range in the event the product initially installed has been discontinued or modified.

Even if your Fan was not properly installed according to QC's published application instructions, this limited warranty remains in effect if your Fan fails to perform as a result of a manufacturing defect.

However, QC will NOT compensate you for:

1. Damage resulting from any of the following:
    - If any panels or other parts are installed in a manner that does not permit drainage of water from all surfaces.
    - Corrosion caused by heavy fallout or exposure to corrosive chemicals, ash or fumes from any chemical plant, foundry, plating works, kiln, fertilizer manufacturing, paper plant, aviation fuel or the like or corrosion caused by contact of the panels and trim with dissimilar materials such as copper, lead or graphite or water runoff from these materials onto the panels and trim.
    - Deterioration caused by any corrosive substance or any condensate of any harmful substance contained, generated or released inside the building.
    - Damage caused by spray foam insulation.
2. Damage from anything other than an inherent manufacturing defect in your Fan, such as:
    - Improper installation of your Fan, faulty application, or application not in strict accordance with QC's published application instructions.
    - Settlement, movement, or defects in the building, walls, foundation, roof deck, or materials adjacent to or over which the Fan was installed.
3. Damage to your Fan or leaking into your building resulting from factor beyond QC's control, including, but not limited to:
    - Acts of nature, such as, but not limited to, hurricanes, earthquakes, extraordinary winds, lightning, hail, fire, radiation
    - Improper storage or handling of your Fan.
4. Damage resulting from the application of overlying or adjacent roofing materials.
5. Damage resulting from mold growth or condensation.
6. Chipping, fading, or peeling paint on your Fan, unless covered by paint coating limitations listed below.
7. Labor costs for removing or replacing your Fan except as specifically provided for above or for any other roofing or building materials.

Paint Coating Warranty Coverage

1. Film Integrity
    - Warranty covers paint coating not breaking down due to environmental factors, including flaking, chipping, or peeling, in each case under ordinary visual observation.
2. Chalk Performance
    - Warranty covers paint coating not chalking or oxidizing in excess of a number 5 rating, when measured in accordance with the standard procedures specified in ASTM D4214.
3. Color Performance
    - Warranty cover freedom from fade or change in AE units calculated in accordance with ASTM D2244 paragraph 6.2.2 CIEL*a*b*, 100 Observer, specular included. Color change is measured on an exposed painted surface that has been cleaned of surface soils and chalk and then compared to corresponding values measured on the original or unexposed coated surface. Color change is warranted at AE<5.
4. Edge Creep:
    - Warranty covers edge creep that exceeds 0.5"

QC Manufacturing Inc.
MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

# ROOF MOUNT ATTIC FANS LIMITED WARRANTY

**Limited Warranty Protection**

*Roof Mount Attic Fan - Controls*

QC Manufacturing, Inc. extends this warranty coverage to the original purchaser of the following QuietCool products (see attached for applicable products) for a period of time (varies by product) provided that the product has been installed in strict accordance with QC Manufacturing, Inc.'s written installation instructions. Under this warranty, QC Manufacturing, Inc., at no charge, will repair or replace any product found to be defective during the warranty period as long as proof of purchase is submitted to QC Manufacturing, Inc. (QC Manufacturing, Inc.'s period begins when the product installation is completed). QC Manufacturing, Inc.'s maximum liability under this limited warranty will be equal to the reasonable cost to replace the defective product.

*Motor Replacements*

The electrical motor is to be used solely as a direct replacement for a motor of the same model in QC Manufacturing, Inc., QuietCool products. Using the motor in any other product could result in electrical shock and/or fire, which may cause property damage, serious injury or even death. Any motor replacement should be installed by a qualified licensed electrician in accordance with local, state and national electrical codes and standards. Make sure that power to the unit has been completely turned OFF at the breaker before approaching or inspecting or installing the replacement motor. If found that the motor failure was by improper installation QC will not be liable for any cost associated with the motor replacement. For example, cost of motor and shipping costs to and from the customer. Repairs and replacement parts supplied under this warranty are warranted only for the period listed in the below chart from the date of original retail purchase of the unit.

*Other Conditions*

This warranty is the entire agreement between you and QC Manufacturing, Inc., and there are no other oral or written warranties, liabilities or obligations of QC Manufacturing except apart from those set forth herein. Pertinent state law shall control for what period of time subsequent to sale a consumer/homeowner may seek a remedy pursuant to the implied warranty of merchantability or fitness for a particular purpose. In no event shall QC Manufacturing, Inc. be liable for consequential or incidental damages of any kind, including any damage to the building, its contents or any persons therein, resulting from the breach of any warranty set forth herein, unless exclusion of these types of damages are specifically prohibited by state law. No field representative of QC Manufacturing, Inc. or any distributor or dealer is authorized to make any change or modifications to this warranty.

| Products | Model Numbers | Warranty |
|---|---|---|
| Roof Mount Attic Fans | AFR PRO-1.3<br>AFR SMT PRO-1.3<br>AFR SMT PRO-1.7-AU<br>AFR SMT PRO-2.0<br>AFR SMT ES-2.0 | Fifteen (15) Year coverage applies to the QuietCool motor fan assembly which includes Motor, Fan Blade, Fan Housing and cover.<br><br>Five (5) Year coverage applies to paint coating of fan housing and cover. |
| **Accessories** | **Model Numbers** | **Warranty** |
| Controls | IT-AF-SMT, IT-AF-SMT-50, IT-AF-SMT-NR, IT-30001, IT-30002 | One (1) Year coverage applies to the models indicated. |
| Flashings/Adapters | FLA-SEC-3743, FLA-CRB-2222, CYL-AFR-SLPADPTR | Fifteen (15) Year coverage applies to the models indicated.<br><br>Five (5) Year coverage applies to paint coating of the models indicated. |

**How to Start the Warranty Process**

To obtain service under this warranty, first contact your dealer where you purchased the equipment. If you are unable to find or reach your dealer, contact Customer Service at QC Manufacturing, Inc. by phone, email or visiting our website at https://quietcoolsystems.com/support/return-merchandise-authorization/ to start the RMA process.

An RMA (Return Merchandise Authorization) form is required for returns to the factory to ensure your return can be processed efficiently and quickly. There is no informal dispute settling mechanism available in the event of a controversy involving this warranty.

**QC Manufacturing, Inc. Customer Service**
26040 Ynez Rd.
Temecula, CA 92591
www.QuietCoolSystems.com
951-325-6340

Rev. 8/29/24

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

# FAN SERIAL NUMBER INFORMATION

**RETAIN FOR YOUR RECORDS.**

SERIAL NUMBER IS REQUIRED FOR WARRANTY PURPOSES.