



OWNER'S GUIDE

SMART ATTIC FAN CONTROL



IT-AF-SMT

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U.S. PATENT
PENDING





1. SYSTEM OVERVIEW

1.1 INTRODUCTION

CONGRATULATIONS

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

The QuietCool Smart Attic Fan Control is the smartest way to control your QuietCool Advanced Attic Fans!

The QuietCool Smart Attic Fan Control allows users to control their attic fan, activate smart mode, and adjust the settings of their attic fan from our innovative phone app.

1.2 FEATURES

Smart Mode with temperature and humidity settings to keep your attic at the optimum temperature and humidity level

Set countdown time for your QuietCool attic fan (up to 12 hours)

Adjust speed setting for your QuietCool attic fan

Integrated fire fuse that automatically shuts off fan at over 182°F

1.3 KEY SPECIFICATIONS

IT-AF-SMT Hub

Voltage: 120V

Frequency: 60Hz

Motor load: 1HP, 735W (Max)

UL Rated Operating Temp: 14°F - 149°F

The listing of this product allows it to be installed in confined spaces with temperatures that exceed 120°F.

1.4 WARNINGS

- ⓘ **CAUTION:** Automatically started device. To reduce the risk of injury, disconnect from power supply before servicing. For residential use only.

2. INSTALLATION

2.1 INSTALLING THE HUB

ⓘ IMPORTANT: If you are installing the Hub onto an existing fan, be sure to shut off the power before attempting installation. If you are installing the Hub onto a new fan, perform all installation steps before plugging in the fan.

1. Open up the thermostat on your attic fan. Unwire the power cord and remove the plastic connector. Unwire the motor wires and remove the metal connector and flex from the thermostat.
2. Attach the metal connector and flex to one of the knockouts on the IT-AF-SMT hub. Attach the plastic power cord bushing in another knockout on the hub.

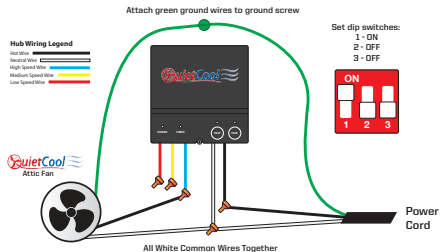
3. WIRING

ⓘ NOTE: Wiring Diagrams are for examples ONLY. Wiring should be done by an experienced electrician.

3.1 ONE SPEED WIRING

1. Using a wire nut, connect the black wire from the power cord 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 black wire from the fan to the blue wire on the Hub.
4. Cap the red wire on the Hub. Cap the yellow wire from the Hub.
5. Ground the green wire from the fan and the green wire from the power cord to the ground screw in the Hub.

Figure 3.1A

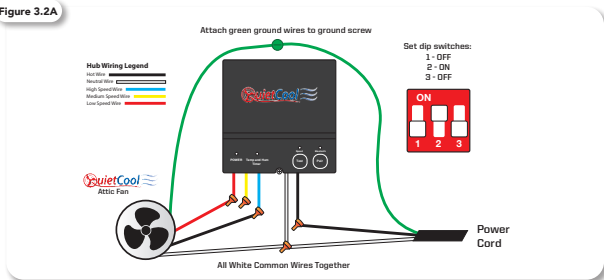


- Set the dip switch positions inside the Hub as shown in the Figure 3.1A.
- Power-on the Hub. The Power LED indicator will be lit.
- Press the Test button to make sure the fan works. The Test LED indicator will blink three times every two seconds indicating 1-speed and the fan will be on. Press the Test button again and the fan should shut off and the LED will be off.
- If the fan doesn't operate as described in step 9, please check the dip switch position.

3.2 TWO SPEED WIRING

- Using a wire nut, connect the black wire from the power source to the black wire from the Hub.
- Connect the white wire from the power source and the white wire on the fan to the white wire from the Hub.
- Connect the black wire from the fan to the blue wire on the Hub.
- Connect the red wire from the fan to the red wire on the Hub.
- Cap the yellow wire from the Hub.
- Ground the green wire from the fan and the green wire from the power cord to the ground screw in the Hub.
- Set the dip switch positions inside the Hub as shown in the Figure 3.2A.
- Power-on the Hub. The Power LED indicator will be lit.
- 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.
- If the fan doesn't operate as described in step 9, please check the dip switch position/wiring.

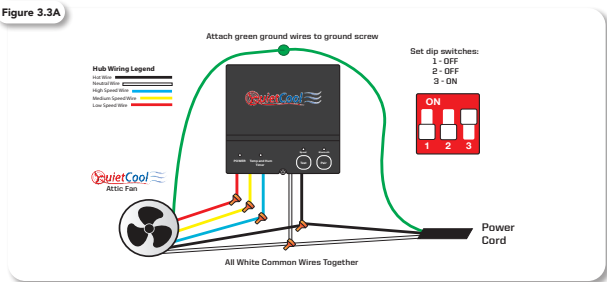
Figure 3.2A



3.3 THREE SPEED WIRING

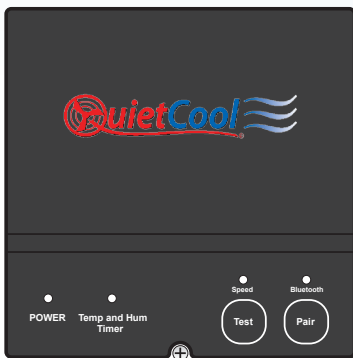
1. Using a wire nut, connect the black wire from the power cord and the black wire from the fan to the black wire from the Hub.
2. Connect the white wire from the power cord and the white wire on the fan to the white wire from the Hub.
3. Connect the red wire from the fan to the red wire on the Hub.
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 3.3A.
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 3.3A



3.4 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 12** 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



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.



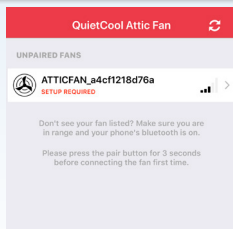
4.2 OPERATING THE QUIETCOOL SMART CONTROL APP

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.

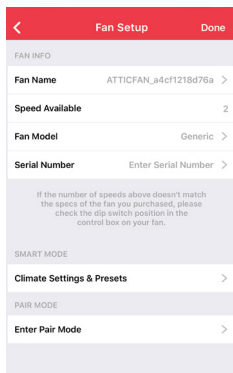


FAN SETUP PAGE

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.

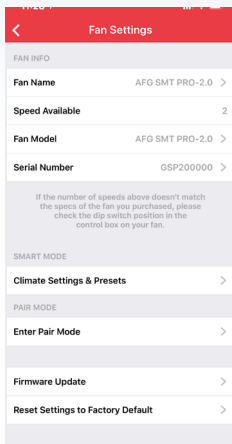




FAN CONTROL PAGE

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

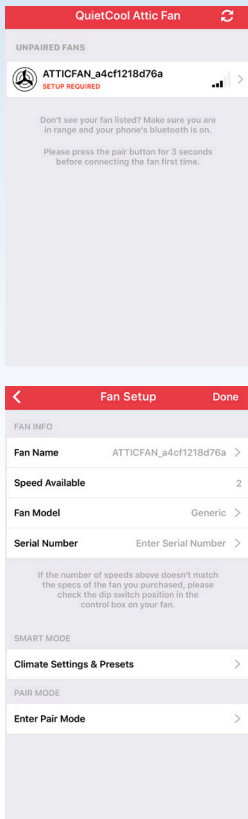
The Speeds Available section will tell you if you have connected the fan and set your dip switch properly.

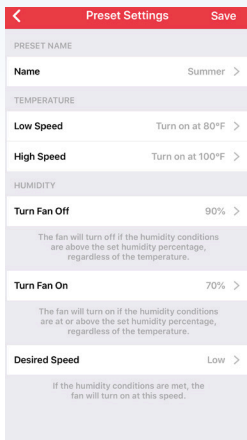
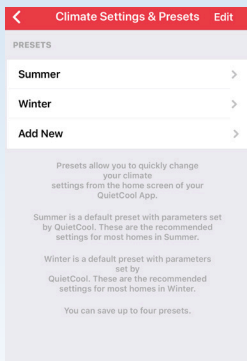
Make sure that this number matches the specification of the fan you purchased.

In this example, we are setting up an AFG SMT PRO-2.0 which is a 2-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.

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.

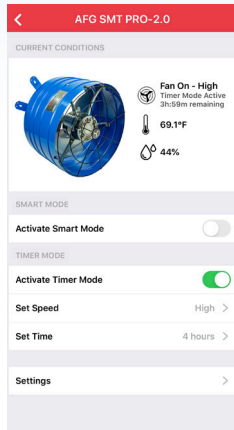
You also have the option to Activate Smart Mode or Activate Timer Mode. You can also go into the Fan Settings page and adjust the settings that you setup in the first step.

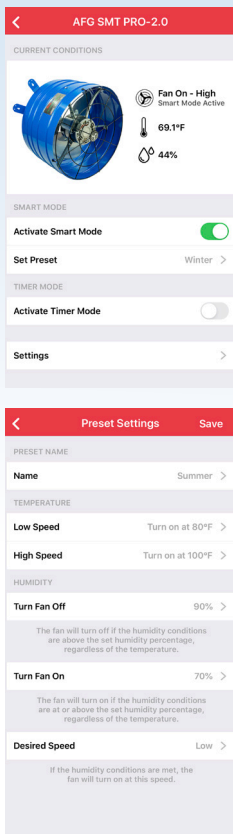
TIMER MODE

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.

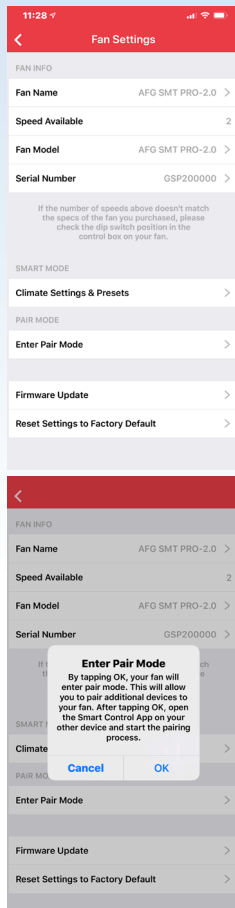
PAIR MODE

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.

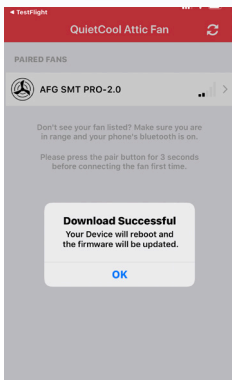
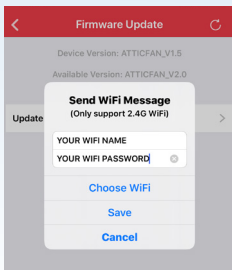
To check for an available firmware update, go into the Fan Settings page and tap Firmware Update.

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.



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

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.

WELCOME

INSTALLATION

WIRING

OPERATION

WARRANTY



CONTROLS LIMITED WARRANTY

QC Manufacturing Inc. extends this warranty to the original purchaser of the following QuietCool controls - IT-30001, IT-30002, IT-36002, and IT-AF-SMT - installed and used in a residence under normal conditions within the United States:

- A. One year coverage for control units furnished by QC Manufacturing, Inc. At our option we will repair or replace any part which fails as a result of defective material or workmanship during the first year from the original date of purchase.
- B. This warranty does not cover any of the following:
1. Accidental or consequential damage resulting from the operation of our equipment or any malfunction thereof.
 2. Cost of service calls to diagnose the cause of problems or the labor charge to un-install any components.
 3. Product failure or damage due to faulty installation, abuse, misuse, unauthorized alteration to factory specs, lack of maintenance, or transportation damage.
 4. Shipping or postage for warranty claims.
- C. To obtain service under this warranty, first contact the dealer where you purchased the equipment. If you are unable to find or reach your dealer, contact Customer Service at QC Manufacturing, Inc. at the number below.
- D. Registration is no longer required for QuietCool fans. If service is required under this warranty, you must retain your proof of purchase.

This warranty is the only warranty extended by QC Manufacturing, Inc. to purchasers or suppliers of our equipment. QC Manufacturing Inc. disclaims all other warranties, express or implied, that arise by operation of the law. Where consumer may have additional warranty rights in accordance with federal and state law, such rights shall supersede those stated herein.

QC Manufacturing, Inc. Customer Service

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