



THE NATURAL CHOICE FOR ENERGY SAVINGS!

# OWNER'S GUIDE

## SMART ATTIC FAN GABLE

MODELS:

AFG Models



AFG SMT ES-3.0



AFG SMT PRO-3.0



AFG SMT PRO-2.0



**DO NOT THROW AWAY! SERIAL NUMBER FOR FAN IS LOCATED ON BACK COVER OF OWNER'S GUIDE. RETAIN IN A SAFE PLACE.**

SEE // HEAR // FEEL  
THE QUIETCOOL DIFFERENCE

## GENERAL SAFETY INSTRUCTIONS

- 1. Read Instructions** - All safety and operation instructions must be read. Failure to read and follow instructions as stated in this guide may void applicable warranty.
- 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. Heat** - The QuietCool system should be situated away from heat sources.
- 6. Damage Requiring Service** - Only qualified service personnel should service the QuietCool system. The user should not attempt to service the product.
- 7. Building Codes** - Always follow Local Building Codes when installing appliances

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QC Manufacturing, Inc.  
26040 Ynez Rd.  
Temecula, CA 92591

PH 951.325.6340  
FX 951.325.6351

[QuietCoolSystems.com](http://QuietCoolSystems.com)

# 1. SYSTEM OVERVIEW

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## 1.1 INTRODUCTION

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

The **QuietCool** Specialty Series was designed for every application imaginable. QuietCool Specialty Series fans dominate the market in energy efficiency. Our Specialty Series works great in practically all climate zones and most homes, mobile homes, and even warehouse buildings!

The QuietCool Attic Fans are the best in the business. New for 2020, our Smart Line of attic fans have gotten even smarter! Now through the use of a smartphone app, you can control all the settings of your Smart Attic Fan right from your couch!

With the QuietCool Smart Control App, you can see your current attic temperature, 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 Series Features

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- High Efficiency Multi-speed Motors
- App Based Smart Control
- Integrated Mounting Tabs with Anti-Vibration Pads
- Designed and Built in California
- 15 Year Warranty



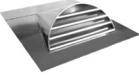
## 14 System Venting Requirements



**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
Eave Vent		4" 5" 6"	0.03 0.04 0.07
Ridge Vent		4' - 12'	0.125 per ft
Soffit Vent		16" x 4" 16" x 6" 16" x 8"	0.19 0.29 0.39
O'Hagin Vent		Low/Medium Profile Tapered Low Profile Low Profile Flat High Profile	0.5 0.6 0.68 0.68
Turbine Vent		8" 12" 14"	.35 .79 1.1

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

## 2. INSTALLATION

### 2.1 Installing AFG (Attic Fan Gable) model fans



**NOTE:** The AFG model fans are designed to mount behind existing vents. If no vent exists, one must be installed. Vent should be installed in the upper center section of the gable.

#### Installation Video:

Watch the video by scanning the QR code or visit [www.QuietCoolSystems.com/support](http://www.QuietCoolSystems.com/support)



Installing the **QuietCool AFG** is very easy. To install the AFG, simply mount the gable fan to your gable vents as shown in the following steps:

**Flush Mount:** The AFG can be mounted flush to a rectangular type louver by fastening through the mounting brackets to the frame of the louver (as shown in **Figure 2.1A**).

As stated in the note above, any area of the louver that is not covered by the AFG must be sealed off in order to prevent air leakage, which may hinder performance.

This is the most conventional method of mounting the AFG. We recommend using the Flush Mount option if possible for all applications.

Figure 2.1A

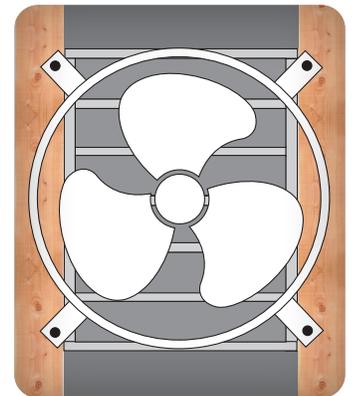
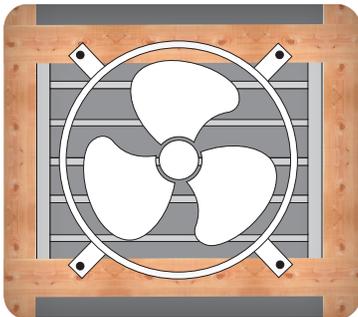


Figure 2.1B



**Wide Mount:** The AFG can be mounted on a wide louver, but additional mounting steps must be taken in order for the fan to work properly. As shown in Figure 2.1B, two additional boards must be fastened to the boards framing the gable vent so the AFG can be mounted securely.

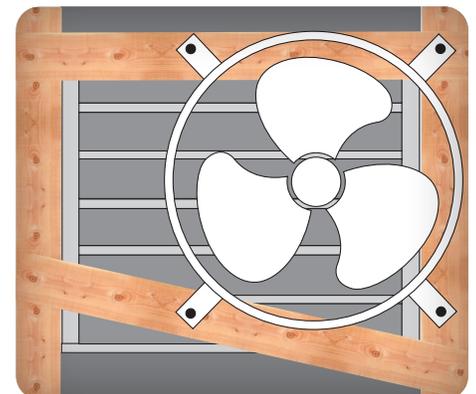
As stated in the note above, any area of the louver that is not covered by the AFG must be sealed off in order to prevent air leakage, which may hinder performance.

**Odd Mount:** The AFG can also be mounted off center for an odd shaped louver (as shown in **Figure 2.1C**).

As stated in the note above, any area of the louver that is not covered by the AFG must be sealed off in order to prevent air leakage, which may hinder performance.

While this is not the most ideal way to mount the gable fan, it is possible. However, since the fan is not completely covering the vent, maximum airflow will not be achieved.

Figure 2.1C





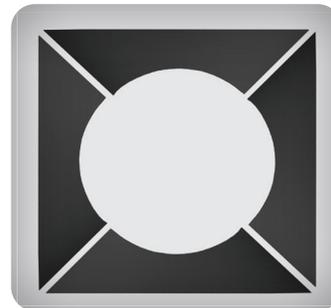
**NOTE:** The AFG can be mounted on many other types of louvers, including triangle vents, round vents, half-round vents, etc. If the vent is smaller than the area of the fan, we recommend constructing a chamber that surrounds the vent, and then mount the AFG to the chamber to ensure maximum airflow and performance.

## 2.2 Installing AFG (Attic Fan Gable) Vent Covers

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Included with your QuietCool Attic Gable Fan are four vent covers that are designed to be installed around the attic fan housing to block any air backdrafting into the attic through a gable vent that is larger than the attic fan cylinder, causing air to cycle in and out around the vent.

1. Take the vent cover and match it to one of the sides around the attic fan housing.
2. Using the two provided wood screws, attach each corner to the wood framing around your gable vent. (See picture for screw locations)
3. Repeat step 1 and 2 for the three additional covers.



### How-to Video:

Watch the video by scanning the QR code or visit [www.QuietCoolSystems.com/support](http://www.QuietCoolSystems.com/support)



## 3. WIRING



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



**NOTE:** Your fan came with the Smart Control Hub pre-wired to a power cord. Simply mount the Smart Control Hub, find a power source in your attic, and plug the fan in. If you would like to hard-wire the fan, or it is required by your local building codes, please follow the wiring instructions below.

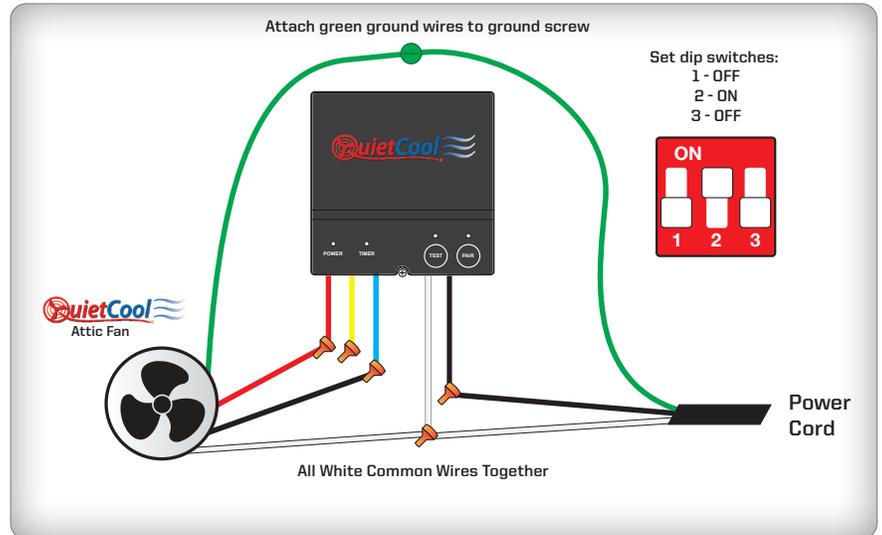
### 3.1. Two Speed Wiring - (AFG SMT PRO-2.0 & AFG SMT PRO-3.0)

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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 B.
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.

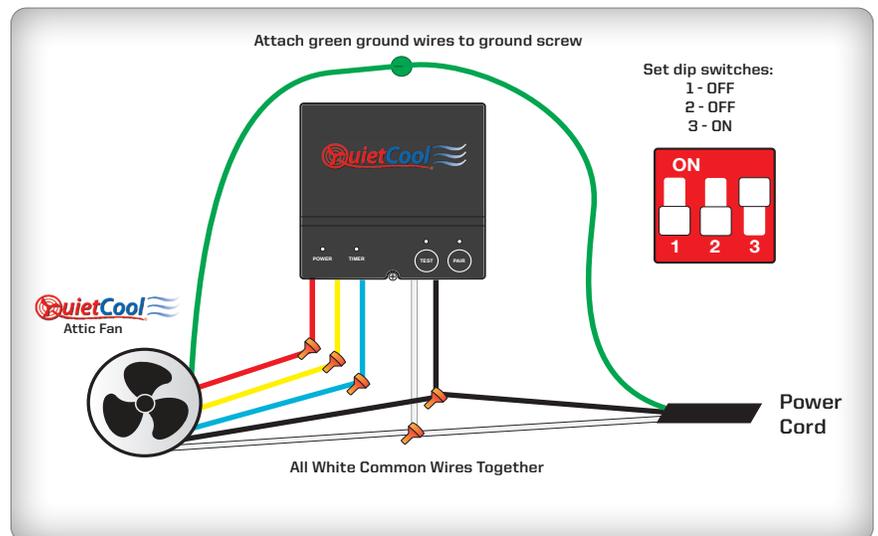
**Figure B**



### 3.2 Three Speed Wiring - (AFG SMT ES-3.0)

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 C.
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 C**



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### 3.3 Smart Control Hub - LED Indicators

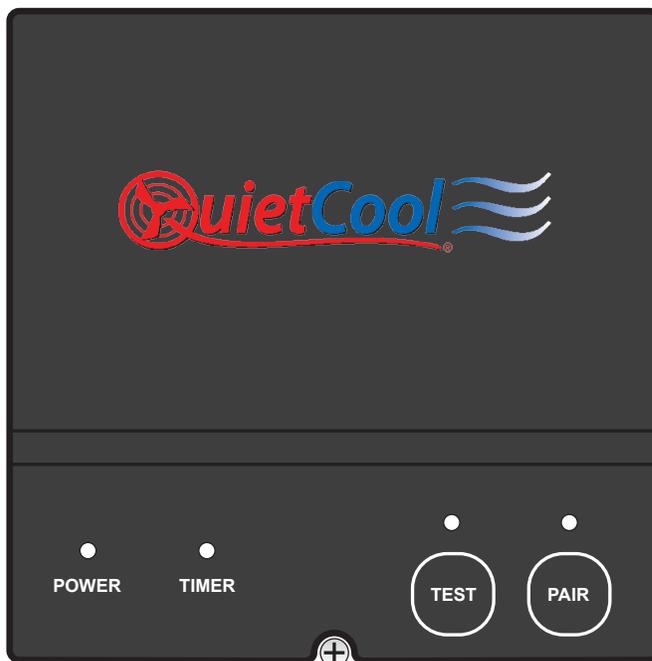
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#### Power Indicator

- 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

#### Timer Indicator

- The Timer LED indicator will light up as shown below:
  - 1 Hour: 1 Blink
  - 2 Hours: 2 Blinks
  - 4 Hours: 4 Blinks
  - 8 Hours: 8 Blinks
  - 12 Hours: 12 Blinks



#### 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 light up when making pair operations. Please see section 4.2 on page 7 for details on pairing.

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## 4. SYSTEM OPERATING INSTRUCTIONS

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### 4.1 Downloading the QuietCool Smart Control App

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

Visit [QuietCoolSystems.com/smart-control/](http://QuietCoolSystems.com/smart-control/) and click the link to download the app to your device.



Scan this QR code to download  
the QuietCool Smart Control App

## 4.2 Operating the QuietCool Smart Control

When you first connect to your QuietCool Smart Attic Fan Control, your attic fan will show up in the list of available fans in the app.

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.**

Tap on the fan to start the setup process. Once you tap on the fan, you will go 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.

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 Settings > Climate Settings & Presets to adjust these settings.

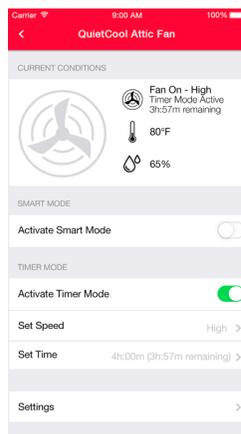
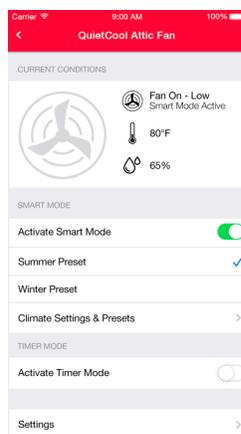
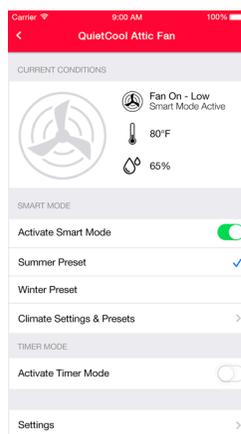
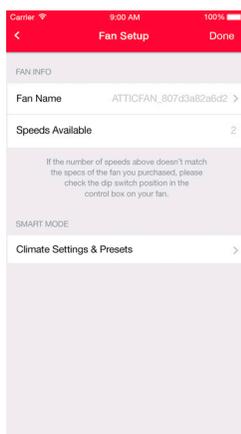
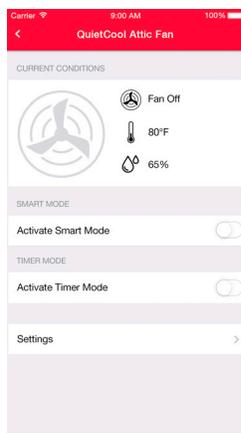
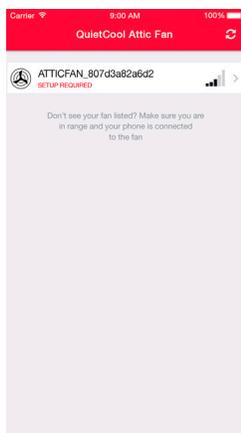
Within this mode there are two standard presets, Summer and Winter. You can modify these presets and add your own custom presets to allow quick setting changes on the fly.

### 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, if it is set at 90%, the fan will turn off if the humidity in the attic is 90% or higher.
- **Turn Fan On:** This is the humidity percentage that will cause the fan to turn on. For example, if it is set at 70%, the fan will turn on if the humidity in the attic is higher than 70% regardless of the temperature in the attic.
- **Desired Speed:** This is the speed the fan will use if the humidity causes the fan to turn on.



Once setup is complete, tap Done in the Fan Setup page.

Now you can tap the fan on the home page. You will be taken to the 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 settings of the fan and adjust the settings that you setup in the first step.

### 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.

Regardless of the attic temperature, if the current attic humidity percentage is over the Turn Fan Off Humidity setting, the fan will shut off. Once the humidity in the attic is back under that setting, the temperature sensor will become active again to control the fan.

### 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.

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## 4.3 Frequently Asked Questions

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### **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. 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.



## SPECIALTY SERIES FANS LIMITED WARRANTY

QC Manufacturing Inc. extends this warranty to the original purchaser of the following QuietCool Specialty Series Fans - AFG SMT ES-3.0, AFG SMT PRO-3.0, AFG SMT PRO-2.0, AFG PRO-2.0, AFR SMT-2.0, GA ES-1500, GX ES-1100, RM ES-1100, and RM ES-2200 - installed and used in a residence under normal conditions within the United States:

- A.** Fifteen year coverage applies to the QuietCool motor fan assembly. At our option we will repair or replace any part of the assembly should it fail to operate during the first fifteen years from the date of original purchase.
- B.** One year coverage for all other components including grilles, housings, controls and accessories 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.
- C.** 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.
- D.** 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.
- E.** 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.

### QC Manufacturing, Inc. Customer Service

26040 Ynez Rd.  
Temecula, CA 92591  
[www.QuietCoolSystems.com](http://www.QuietCoolSystems.com)  
951-325-6340

Rev. 6-6-18

QuietCool is Proudly Designed and Built in California

## Fan Serial Number Information



Retain for your records. Serial number is required for warranty purposes.

