# QuietCool

## ADVANCED WHOLE HOUSE FANS

# OWNER'S GUIDE
## Wireless RF Control Kit
### IT-36003

## GENERAL SAFETY INSTRUCTIONS

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. If you live in a very humid climate, be sure to cover your damper box with insulation to reduce condensation.
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.

## CONTENTS

### INCLUDED IN THE BOX

- IT-AC-HUB-01 Control Hub

- IT-RFGLSSWITCH-01 RF Switch

- QuietCool Owner's Guide

- (2) AAA batteries

- Mounting screws and drywall anchors

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

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1-888-QUIETCOOL

**EMAIL**
info@quietcoolsystems.com

**WEBSITE**
www.QuietCoolSystems.com

ⓘ **STOP! READ ALL INSTRUCTIONS IN THIS GUIDE BEFORE INSTALLING YOUR QUIETCOOL SYSTEM**
**Read this guide before proceeding! The manufacturer is NOT responsible for faulty installation or product damages caused through failure to fully read this guide BEFORE attempting installation.**

# 1. SYSTEM OVERVIEW

## 1.1 Introduction

**Congratulations on the purchase of your new QuietCool RF Wireless Control!**

The QuietCool Whole House Fan RF Wireless Control is the simplest way to control your QuietCool Advanced Whole House Fan from anywhere in your home!

The QuietCool RF Wireless Control allows users to set the length of time that the fan will run and set the desired speed level.

## 1.2 Features

- Control your QuietCool from anywhere in your home
- Set countdown time for each QuietCool in your home (up to 12 hours)
- Adjust speed setting for each multi-speed QuietCool
- Pair up to 20 switches to each Hub
- Surface mount wall switch that can be removed and used from anywhere in the home

## 1.3 Key Specifications



**IT-AC-HUB-01 (Hub)**
Voltage: 120V
Frequency: 60Hz
Motor load: 1HP, 735W (Max)
UL Rated Operating Temp 14°F - 149°F

**IT-RFGLSSWITCH-01 (Switch):**
Voltage: 3VDC (2 AAA batteries)
Battery Standby Current: ≤10uA
RF working distance: 100ft (no obstructions)

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

# 2. INSTALLATION

## 2.1 Installing the Hub

**⓵ IMPORTANT:** If you are installing the Hub onto an existing QuietCool 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.

**Install the Hub directly to the motorhead:**

1. Remove the handy box cover on your QuietCool fan. Remove the wire nuts from the power cord and motor wires inside the handy box. Remove the ground screw.

2. Remove the power cord bushing and power cord. Keep both the bushing and power cord as you will be using it for the installation of the hub.

3. Remove the four screws that are used to mount the handy box to the QuietCool motorhead. Retain the four screws as you will be using them to attach the Hub to the QuietCool motorhead.

4. Using your philips screwdriver, open up the Hub and install the powercord bushing through the hole at the back of the hub.

5. Run the motor wire leads through the large knockout in the bottom of the hub.

6. Using the four screws from the handybox, mount the Hub to your QuietCool motorhead.
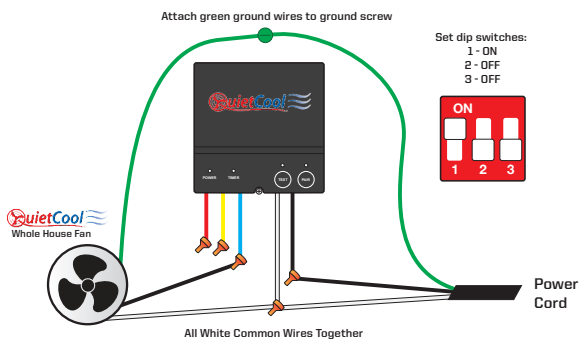
## 2.2  Wiring the Hub

**⓵ NOTE:** Wiring Diagrams are for examples only. Wiring should be done by a licensed electrician following local building and electrical codes and/or NEC guidelines. 12 or 14-gauge romex is common. Check your  local building code before choosing the wire type.

**⓵ NOTE:**  Ensure the power is disconnected before performing any wiring connections.

**⓵ NOTE:** The wiring diagrams and instructions are shown using the power cord included with your QuietCool. The installation can also be performed with 2-wire romex and hard wired.

**⓵ NOTE:** If you are retrofitting the RF Control, you will have to un-wire the existing wall switch. You will reuse the power that was run to the switch to go directly into the RF Control Hub.

### Single Speed Wiring (for all 1500/1.5 models) (see Figure A)

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. Cap the yellow and red wires from the Hub.

3. **FOR TRIDENT AND CLASSIC MODELS:** Connect the red wire from the fan to the blue wire on the Hub
**FOR STEALTH AND ENERGY SAVER MODELS:** Connect the black wire from the fan to the blue wire on the Hub

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

5. Set the dip switch positions inside the Hub as shown in the diagram below.

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

7. Press the Test button to make sure the fan works. The Test LED indicator will blink once 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 6, please check the dip switch postion.

**Figure A**



Attach green ground wires to ground screw

Set dip switches:
1 - ON
2 - OFF
3 - OFF

ON
1 2 3

QuietCool
Whole House Fan

POWER   TIMER   TEST   HIGH

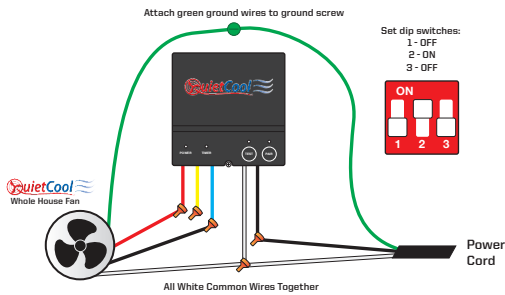Power Cord

All White Common Wires Together

## Two Speed Wiring (for CL-2250 to 7000 and TRI PRO-2.5 to 7.0) (see Figure B)

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. Connect the red wire from the fan to the red wire on the Hub. Cap the yellow wire from the Hub.

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

5. Set the dip switch positions inside the Hub as shown in the diagram below.

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

7. Press the Test button to make sure the fan works. The Test LED indicator will blink twice 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. Press the Test button again and the fan should shut off and the LED will be off.

8. If the fan doesn't operate as described in step 8, please check the dip switch postion.



Figure B

Attach green ground wires to ground screw

Set dip switches:
1 - OFF
2 - ON
3 - OFF

QuietCool
Whole House Fan

Power Cord

All White Common Wires Together

## Two Speed Wiring (for ES-2250 and STL PRO-2.5) (see Figure C)

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. Connect the yellow wire from the fan to the blue wire on the Hub. Cap the yellow wire from the Hub.

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

5. Set the dip switch positions inside the Hub as shown in the diagram.

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

7. Press the Test button to make sure the fan works. The Test LED indicator will blink twice 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. Press the Test button again and the fan should shut off and the LED will be off.

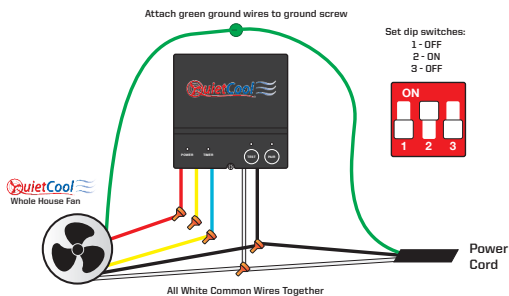8. If the fan doesn't operate as described in step 7, please check the dip switch postion.

1-888-QUIETCOOL

**Figure C**



Attach green ground wires to ground screw

Set dip switches:
1 - OFF
2 - ON
3 - OFF

ON

1  2  3

QuietCool
Whole House Fan

Power
Cord

All White Common Wires Together

## Two Speed Wiring (for ES-3100, 4700, 5400, 6000, 7000, and STL PRO-3.3) (see Figure D)

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. Connect the blue wire from the fan to the blue wire on the Hub. Cap the yellow wire from the Hub.

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

5. Set the dip switch positions inside the Hub as shown in the diagram below.

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

7. Press the Test button to make sure the fan works. The Test LED indicator will blink twice 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. Press the Test button again and the fan should shut off and the LED will be off.

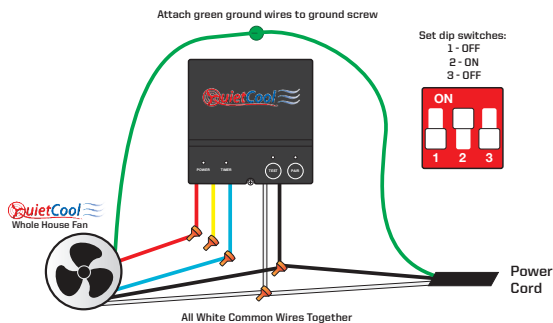8. If the fan doesn't operate as described in step 7, please check the dip switch postion

**Figure D**



Attach green ground wires to ground screw

Set dip switches:
1 - OFF
2 - ON
3 - OFF

ON

1  2  3

QuietCool
Whole House Fan

Power
Cord

All White Common Wires Together

## Three Speed Wiring (for STL PRO-4.8, 5.5, 6.0, & 7.0) (see Figure E)

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 the diagram below.

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. Press the Test button again and the fan will switch to low speed. 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 postion.
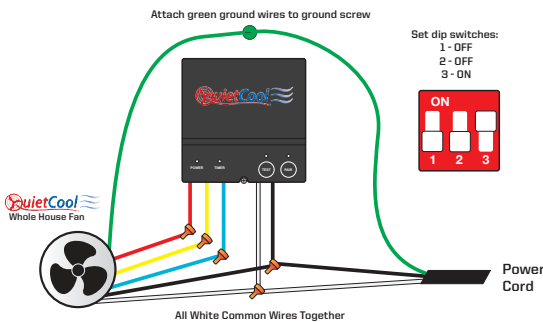
**Figure E**



Attach green ground wires to ground screw

Set dip switches:
1 - OFF
2 - OFF
3 - ON

ON
1  2  3

QuietCool
Whole House Fan

All White Common Wires Together

Power Cord

## 2.3    Fan 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

**Timer Indicator**

- The Timer LED indicator will light up as shown below:
    1. 1 Hour: 1 Blink
    2. 2 Hours: 2 Blinks
    3. 4 Hours: 4 Blinks
    4. 8 Hours:  8 Blinks
    5. 12 Hours: 12 Blinks
    6. Continuous On: Off

**Test Indicator**

- The Test LED indicator will light up as shown below when the Test button is pressed and when the fan is turned on via the Wall Switch:
    1. One Speed Fan: blink once every 2 seconds
    2. Two Speed Fan: blink twice every 2 seconds
    3. Three Speed Fan: blink three times every 2 seconds

**Pair Indicator**

- The Pair LED indicator will light up when making pair operations. Please see page 12 for details on pairing.

**Notes on Operation**

- If the Dip Switch is not configured correctly, all the indicators on the Hub will stay solid when the Hub is powered on. Please switch off power and re-configure the Dip Switch as shown in the wiring diagrams.

## 2.4 Pairing the Wall Switch

1. Remove the mounting plate from the back of the switch and install the included AAA batteries into the switch by removing the plastic covers. All the LED indicators will light up indicating that the switch has power. Replace the plastic covers.

3. Press and hold the Pair button on the Hub. The Pair LED indicator will be on for three seconds then turn off. This clears all previous pairings out of the Hub,

4. Press the Pair button on the Hub twice. The Pair LED indicator will blink once every second indicating the Hub is in pairing mode.

5. Press any of the buttons on the Wall Switch to wake it up. Now hold one of the buttons on the switch. The Pair LED indicator on the Hub will go out and the Wall Switch speed indicators will be blinking indicating successful pairing. Press one of the Wall Switch buttons again, the speed indicators will go out, and it will display the current fan status.

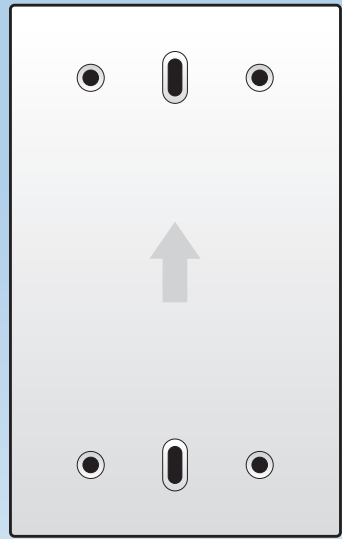6. Press the Timer button to test the Wall Switch to make sure it is communicating with the Hub.

**Ⓘ NOTE: If a button on the Wall Switch is not pressed within three minutes of pressing the Pair button on the Hub, the LED indicator on the Hub will go out, indicating unsuccessful pairing. You will need to go back and repeat steps 4 and 5.**

## 2.5 Finding a Location for the Wall Switch

1. It is very important to find the correct location to install the Wall Switch that will allow the Wall Switch to communicate with the Hub.

2. Find the location you would like to install the Wall Switch and test that it properly communicates with the fan to turn the fan on and off.

3. If the fan comes on, this is a good location.

4. If all the LED indicators turn on, the Wall Switch is not communicating with the Hub and you will need to find a location closer to the fan.

## 2.6    Installing the Wall Switch

1. Using your hands, slide the Wall Switch off the mounting plate.

2. If you have an existing Wall Switch with a junction box installed, install the mounting plate over the junction box using the oblong holes on the mounting plate. Make sure you install the mounting plate with the arrow facing upwards.

3. If you do not have an existing junction box, simply install the mounting plate to the drywall. Using the included drywall anchors and screws, mount the plate onto the drywall through the four mounting holes.

# 3. OPERATION

### 3.1    Operating the Wall Switch

**Timer Button**
- The top button on the switch controls the Timer functionality of the fan.
- This button must be pressed for the fan to turn on.
- Button Presses:

  **One Press:** 1 Hour        **Five Presses:** 12 Hours
  **Two Presses:** 2 Hour      **Six Presses:** Continuous On
  **Three Presses:** 4 Hours   **Seven Presses:** Off
  **Four Presses:** 8 Hours

**Speed Button**
- The bottom button on the switch controls the speed functionality of the fan.

  **One Speed Fan**          **Two Speed Fan**            **Three Speed Fan**
  - First press: ON          - First press: HIGH          - First press: HIGH
                             - Second press: LOW          - Second press: MED
                                                          - Third press: Low

**ON/OFF Button**
- The ON/OFF button on the switch turns the fan on or off.

**Wall Switch Sleep Mode**
- If no button press is detected for 10 seconds, the Wall Switch will enter sleep mode. Pressing either button will wake the switch and display the current status.
- In Sleep Mode, all LED indicators will be off.

**LED Status Indicators of Wall Switch**

- If all LED indicators on the Wall Switch come on after three seconds of pressing one of the buttons, this means the Wall Switch is failing to connect to the Hub. You will need to move the switch closer to the Hub to ensure proper communication.
- If all the Timer LED indicators are off and one of the Speed LED indicators are on, this means you have not set the time for the fan to run and the fan will not operate. Simply press the Timer button to turn the fan on and set the fan runtime.
- If only one of the Timer LED indicators is on and only one of the Speed LED indicators is on, the fan is running at the indicated speed and timer level.
- If all the Timer LED indicators are on and only one of the Speed LED indicators are on, the fan is running in Continuous On mode at the indicated speed level. The fan will continue to run until you press the Timer button to turn it off.

**Notes on Operation**

- In order for the fan to run, a Timer selection MUST be made. When the Timer status is off (no LED indicators lit), you can still change the Speed setting. The Speed setting will take effect once the Timer selection is made.

### 3.2 Frequently Asked Questions

**What does RF Mean?**
"RF" Stands for Radio Frequency.

**How does RF Work?**
A small electronic device is used to transmit and/or receive radio signals between two devices. In an embedded system, it often communicates with another device wirelessly. This wireless communication may be accomplished through optical communication or through radio frequency (RF) communication.

**Will RF Interfere with other devices in my home?**
The RF will not interfere with other wireless or RF devices in your house. It produces its own unique RF signal that can only communicate with our RF Switch.

**How many switches can you connect to a single hub?**
You can connect up to 20 switches to a single hub.

**Will my neighbor be able to control my fan if they have the same set up as me?**
They will not because you need to physically activate the pairing process between the RF Switch and the RF Hub.

**What is the range?**
The RF Switch and RF Hub have a range restriction of 100ft.

**What happens if I lose the RF Switch?**
If you lose or damage an RF Switch you will need to purchase another and re-pair the new one to the RF Hub.

**Can you control multiple fans with a single switch?**
No. You can only control one RF Hub per switch.

**How long do the batteries last?**
One year.

**Why are all my lights solid on the hub and nothing is working?**
If you're experiencing solid lights on the hub then it is an indication that your DIP switches are not in the correct position. Disconnect power, adjust your DIP switches, and the only light that should be lit is your RED power light.

**Why is there a medium speed if my fan is only a two speed?**
The RF Hub and RF Switch are universal to all QuietCool models. There are some units that feature three speeds which use the medium on the switch. As long as your DIP switch is set correctly in the hub, the switch will automatically skip over medium speed.

**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 RF Control to a smart home system like Alexa, Google Home, or Apple HomeKit?**
No, in the current configuration the RF Control cannot connect to a smart home system. There are systems on the market that take RF signal and translate them to a smart home system, but they have not been tested and may not work reliably.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

## CONTROLS 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.

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

However, QC will NOT compensate you for:
1. Damage from anything other than an inherent manufacturing defect in your product, such as:
   • Improper installation of your product, faulty application, or application not in strict accordance with QC's published application instructions.
   • Improper storage or handling of your product.
2. Damage resulting from mold growth or condensation.
3. Chipping, fading, or peeling paint on your product.
4. Labor costs for removing or replacing your product except as specifically provided for above or for any other roofing or building materials.

### Limited Warranty Protection
*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.

| Accessories | Model Numbers | Warranty |
|---|---|---|
| Controls | IT-AF-SMT, IT-AF-SMT-NR, IT-30001, IT-30002, IT-30003, IT-36002-A, IT-36003, IT-AC-HUB, IT-RFHUB-01, IT-RFSWITCH-01, IT-RFGLSSWITCH-01 | One (1) Year coverage applies to the models indicated. |

*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.

**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. 6/12/23

**FCC SUPPLIER'S DECLARATION OF CONFORMITY**

PRODUCT NAME: RF Glass Switch
MODEL NUMBER: IT-RFGLSSWITCH-01

**QC MANUFACTURING, INC.**
26040 Ynez Road
Temecula, CA 92591

**WEBSITE**
www.quietcoolsystems.com

**PHONE**
1-888-QUIETCOOL

**EMAIL**
info@quietcoolsystems.com

**FCC Regulations**
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution**
The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Notes**
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

**ISED Statement**
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en com promettre le fonctionnement.

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN