



# OWNER'S GUIDE

## RF WIRELESS CONTROL

MODEL:

IT-36002



SEE // HEAR // FEEL  
THE QUIETCOOL DIFFERENCE

## 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.

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## INCLUDED IN THE BOX

- IT-RFHUB-01 RF Control Hub
- IT-RFSWITCH-01 RF Switch
- QuietCool Owner's Guide
- (2) AAA batteries
- Mounting screws and drywall anchors



## **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.**



### **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**

Changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

## **1. SYSTEM OVERVIEW**

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### **1-1 INTRODUCTION**

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#### **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**

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- 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**

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#### **IT-RFHUB-01 (Hub):**

Voltage: 120V

Frequency: 60Hz

Motor load: 1HP, 735W (Max)

UL Rated Operating Temp 14°F - 149°F

#### **IT-RFSWITCH-01 (Switch):**

Voltage: 3VDC (2 AAA batteries)

Battery Standby Current:  $\leq 10\mu\text{A}$

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

### TOOLS YOU WILL NEED

- Phillips screwdriver
- Power-drill
- Philips bit

#### 2-1 Installing the Hub



**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



**NOTE:** Wiring Diagrams are for examples only and wiring should be done by an experienced electrician. 12 or 14-gauge romex is common. Check your local building code before choosing the wire type.



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



**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.

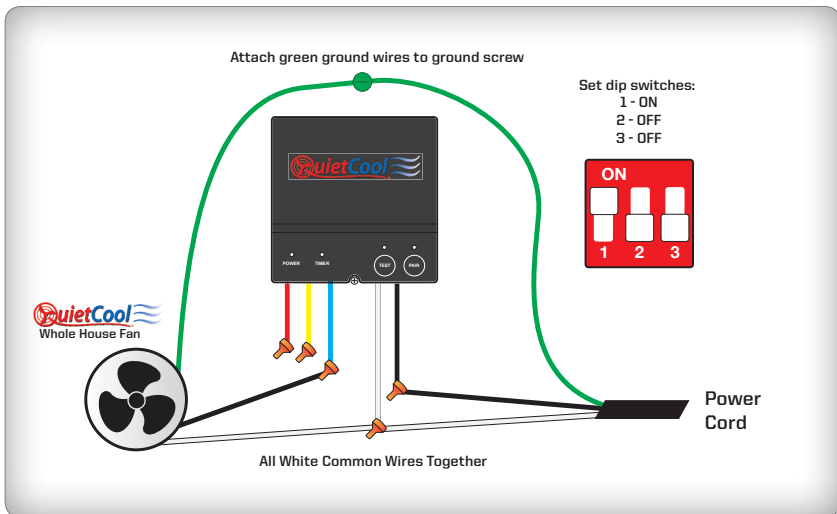


**NOTE:** If you are retrofitting the RF Control, you will have to un-wire the existing wall switch. You will reuse the power that was run to the switch to go directly into the RF Control Hub.

## 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.
3. FOR TRIDENT AND CLASSIC MODELS: Connect the red wire from the fan to the blue wire on the Hub
4. FOR STEALTH AND ENERGY SAVER MODELS: Connect the black wire from the fan to the blue wire on the Hub
5. Cap the yellow and red wires from the Hub.

Figure A

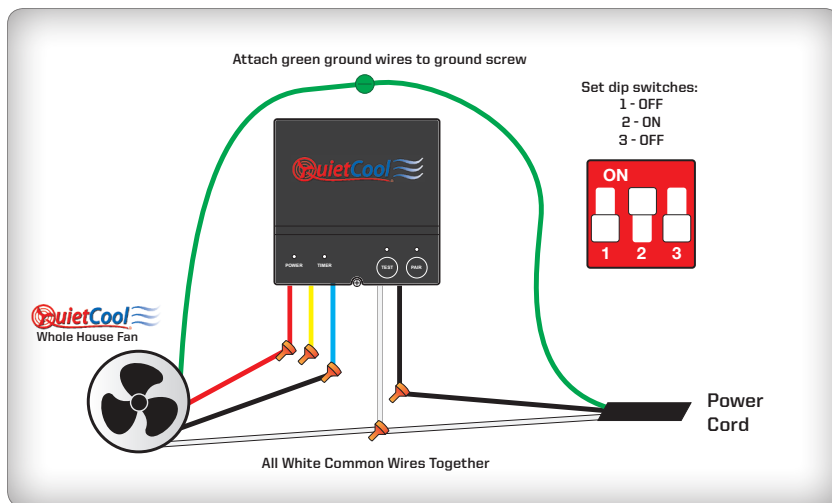


6. Ground the green wire from the fan and the green wire from the power cord to the ground screw in the Hub.
7. Set the dip switch positions inside the Hub as shown in the diagram below.
8. Power-on the Hub. The Power LED indicator will be lit.
9. Press the Test button to make sure the fan works. The Test LED indicator will blink 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 8, please check the dip switch position.

## 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
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 diagram below.

Figure B

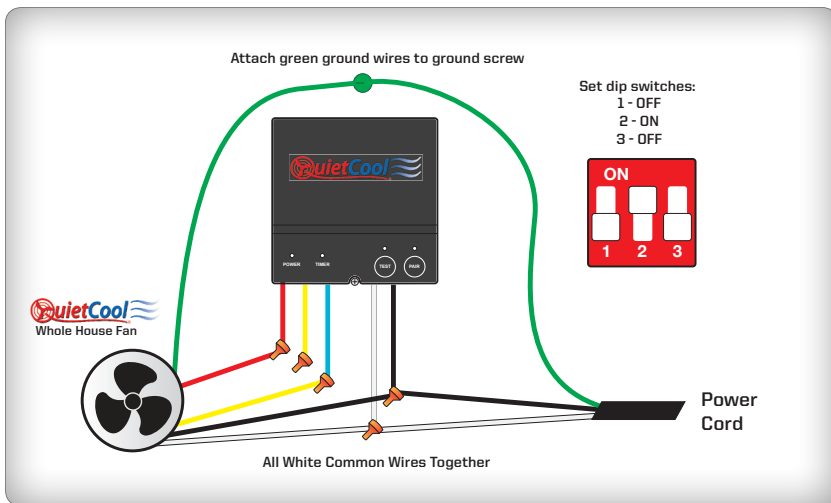


8. Power-on the Hub. The Power LED indicator will be lit.
9. Press the Test button to make sure the fan works. The Test LED indicator will blink twice every two seconds indicating 2-speed and the fan will be on high. Press the Test button again and the fan will switch to low speed. Press the Test button again and the fan should shut off and the LED will be off.
10. If the fan doesn't operate as described in step 9, please check the dip switch position.

## 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
4. Connect the yellow wire from the fan to the blue 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 diagram below.

Figure C

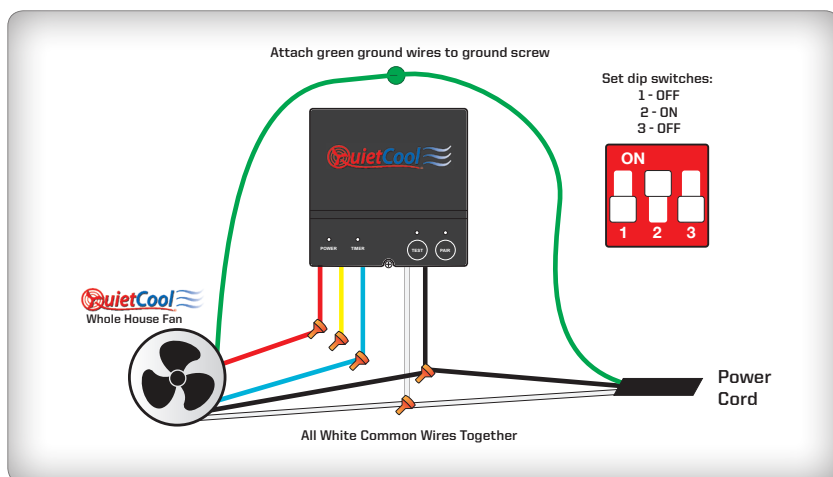


8. Power-on the Hub. The Power LED indicator will be lit.
9. Press the Test button to make sure the fan works. The Test LED indicator will blink twice every two seconds indicating 2-speed and the fan will be on high. Press the Test button again and the fan will switch to low speed. Press the Test button again and the fan should shut off and the LED will be off.
10. If the fan doesn't operate as described in step 9, please check the dip switch position.

## 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
4. Connect the blue wire from the fan to the blue wire on the 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 diagram below.

Figure D



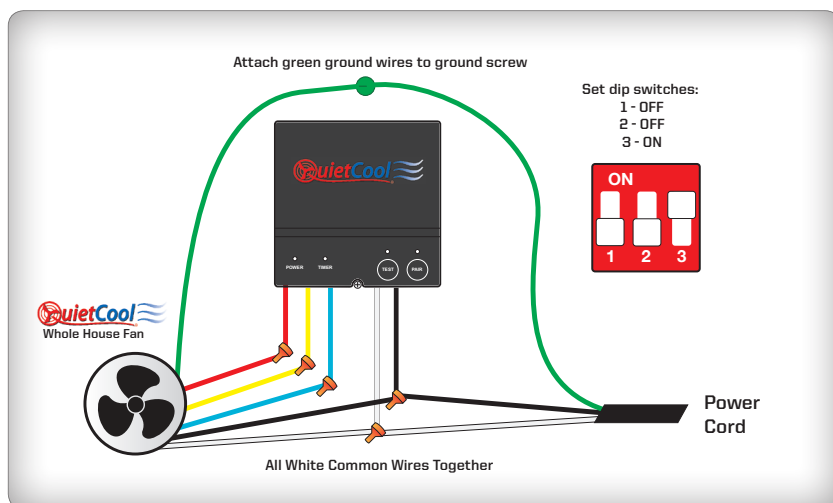
8. Power-on the Hub. The Power LED indicator will be lit.
9. Press the Test button to make sure the fan works. The Test LED indicator will blink twice every two seconds indicating 2-speed and the fan will be on high. Press the Test button again and the fan will switch to low speed. Press the Test button again and the fan should shut off and the LED will be off.
10. If the fan doesn't operate as described in step 9, please check the dip switch position.



## 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.

Figure E



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 position.

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## 2-3 Fan Hub LED Indicators

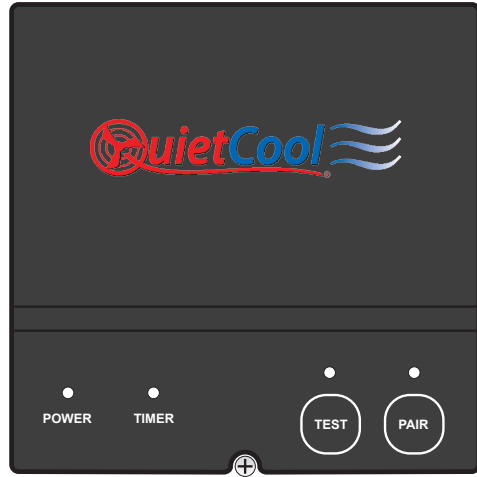
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### Power Indicator

- 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. 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.

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## 2-4 Pairing the Wall Switch

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1. Using a flat-head screwdriver, remove the front cover off the wall switch.
2. Install the included AAA batteries into the switch. All the LED indicators will light up indicating that the switch has power. Replace the front cover.
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 either one 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 the Wall Switch button 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.**

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## 2-5 Finding a Location for the Wall Switch

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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

**Two Presses:** 2 Hour

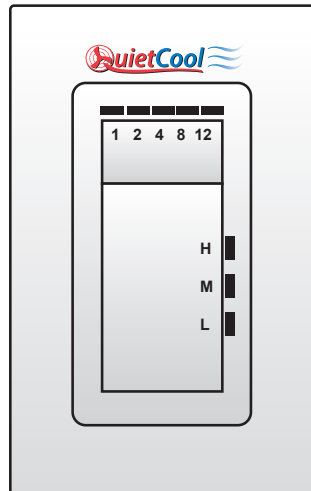
**Three Presses:** 4 Hours

**Four Presses:** 8 Hours

**Five Presses:** 12 Hours

**Six Presses:** Continuous On

**Seven Presses:** Off



#### Speed Button

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

#### One Speed Fan

- First press: ON

#### Two Speed Fan

- First press: HIGH
- Second press: LOW

#### Three Speed Fan

- First press: HIGH
- Second press: MED
- Third press: Low

## 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.

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## 3-2 Frequently Asked Questions

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### 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.



## RF WIRELESS CONTROL LIMITED WARRANTY

QC Manufacturing Inc. extends this warranty to the original purchaser of the following - IT-RFHUB-01 and IT-RFSWITCH-01 - installed and used in a residence under normal conditions within the United States:

**A.** One year coverage applies to the product. At our option we will repair or replace any part of the assembly should it fail to operate during the first year from the date of original 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. 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

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Rev. 6-26-19

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