QuietCool®
ADVANCED ROOF MOUNT FANS

OWNER'S GUIDE

ROOF MOUNT WHOLE HOUSE FAN

RM WHF-4.0

! DO NOT THROW AWAY!

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

LEAVE WITH HOMEOWNER

CONTENTS

15 YEAR WARRANTY | US PATENT 10,830,464 OTHER PATENTS PENDING | MADE IN USA WITH DOMESTIC & FOREIGN PARTS

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

PHONE 1-888-QUIETCOOL
WEBSITE WWW.QUIETCOOLSYSTEMS.COM

1. SYSTEM OVERVIEW

1.1 INTRODUCTION

CONGRATULATIONS

on the purchase of your new QuietCool Roof Mount Whole House Fan!

The QuietCool Roof Mount Fans offer great versatility for any system you are looking to put in. QuietCool Roof Mount Fans can be used in many applications such as a whole house fan with a duct, or as a whole house fan that pulls air through air intake grilles in multiple rooms.

These are typically used in applications where a standard QuietCool whole house fan would not work, such as manufactured homes, homes with a flat roof, or homes with a sealed attic.

1.2 FEATURES

+ Ultra-Energy Efficient Electronically Commutated Motor (ECM)
+ Patent Pending
+ Built in USA
+ 15-Year Warranty
+ Included RF Wireless Control Kit

1.3 WARNINGS

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

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

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

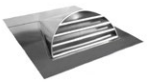
1.3 SYSTEM VENTING REQUIREMENTS

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

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

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

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

Vent Type	Model Type	Average Size	Venting Sq. Ft.
Gable vent		12" x 19.5"	1.20
Dormer Vent		14" x 8"	0.70
Ridge Vent		4' - 12'	0.125 per ft
Soffit Vent		16" x 4" 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

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

INCLUDED

- QuietCool RM Whole House Fan
- RM Hardware Kit
- Cut-out Template
- (2) Window Locks
- PL Accessory Kit (if purchased)
- DB Accessory Kit (if purchased)
- DG1/2 Accessory Kit (if purchased)

RM HARDWARE KIT CONTENTS

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

PL HARDWARE KIT CONTENTS

D. (9) Hex Head Self Drilling Screws with Rubber Bonded Washers
(8 for fan to plenum, 1 extra)

DB HARDWARE KIT CONTENTS

A. (9) All-Purpose Screws
4 for damper box, 5 extra

B. (6) Pan Head Screws
4 for duct strap, 2 extra

C. Duct Strap

TOOLS YOU WILL NEED

+ Cordless Drill with Nut Driver
+ Roofing Nails
+ Reciprocating Saw
+ Measuring Tape
+ Weatherproof Roofing Grade Sealant
+ Roofing Knife
+ Peel-and-stick or similar roofing material
+ Weatherproof roofing paper
+ Shingle material (for shingle roofs)
+ Aluminum Secondary Flashing Material (for tile roof)
+ Angle Grinder (for tile roof)
+ Ladder Marker or Carpenter Pencil

READ BEFORE ATTEMPTING TO INSTALL AN RM FAN

GETTING STARTED

NOTE: Always follow local building codes because the fan may require specific fasteners or anchoring systems not discussed in this installation guide. Installation should be done by a licensed roofing contractor.

GENERAL SAFETY INFORMATION

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

CHOOSING THE RIGHT LOCATION

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

ROOF PITCH REQUIREMENTS (MAX ROOF PITCH 8/12)

For roofs with less than a 3/12 roof pitch, the fan should be curb mounted

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

2. INSTALLATION

2.1 INSTALLING THE RM WHF-4.0

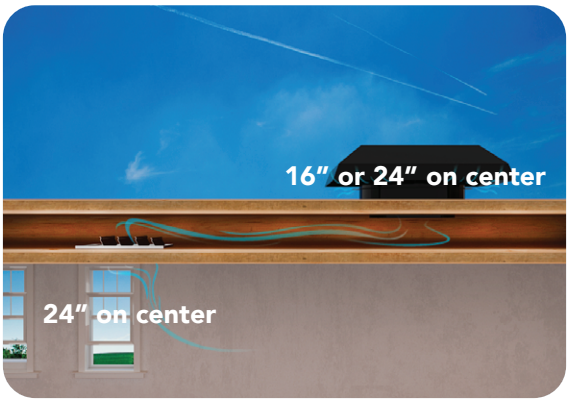
Installation Video:
Watch the video by scanning the QR code or visit
www.QuietCoolSystems.com/support

1. Determine in which area you would like to install your QuietCool Roof Mount Fan (see diagrams below)

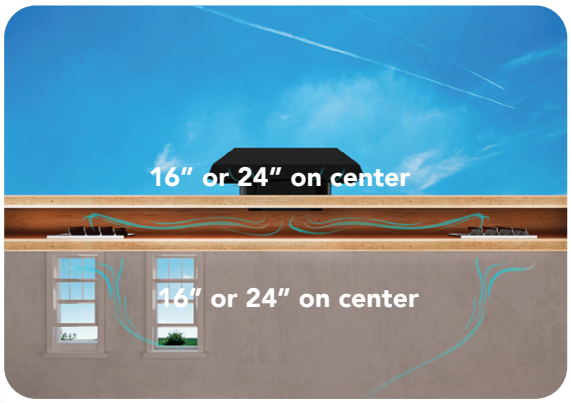
RM WHF Installation Diagrams

RM WHF-4.0-DB Installed

RM WHF-4.0-DG1 Installed



RM WHF-4.0-DG2 Installed



RM WHF-4.0-PL Installed

2. After choosing the location where your roof mount fan will be installed, find the closest rafter to that location and determine if your roof has either 16" on center or 24" on center rafter spacing. The above diagrams show what rafter spacing and roof joist spacing is required for each installation type.

IMPORTANT: If you are installing the RM WHF-4.0-PL, skip to section 2.5 on pg. 10.

IMPORTANT: Before installing the RM WHF-4.0-DB, you will need to find the exact location for your damper box and grille to ensure the duct will fit between the fan location and the damper box location. Locate the ceiling studs and mark the location for the box to be installed. Minimum of 36" clearance required. Make sure the duct will fit between the fan location and the damper box location. The duct is 9' long.

IMPORTANT: The RM WHF is designed for roof rafters that have spacing of 24" or greater on center. For DG1 and DG2 installation, you may install the fan on roofs with rafters spaced at 16" on center, however, you will want to center the fan unit over the bay in which you are installing the damper grilles. In this scenario, a few inches of the fan hole will overhang into another bay on either side. As long as the other bays are sealed, this should not be an issue as the air will only pull from the damper grilles within the center bay.

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

NOTE: If you have a tile roof, you will need to move tiles out of the way before tracing and cutting.

4. Go to the roof. Using the screw as a reference point and the provided template, trace out the 22" diameter circle.

5. Use a reciprocating saw to cut out the traced hole pattern from the roof decking. Remove the cut out decking material from around the hole as needed. **(See Figure 2.1B)**

Figure 2.1A

Figure 2.1B

Figure 2.1C

If installing on a tile roof, continue to step 6. If installing on a shingle roof, skip to step 12.

6. Apply weatherproof barrier to the roof. **(See Figure 2.1C)**

7. Position the fan so that it is centered with the vent hole.

8. Lifting the fan unit up at an angle, apply weatherproof sealant to the bottom side of the fan unit. This will help keep the fan in place and will seal nice and tight.

9. Using a minimum of 8 roofing nails, nail the fan to the roof through the primary flashing. To prevent leaking, be sure to apply weatherproof sealant on the nail heads. Once complete, apply more weatherproof barrier to the top of the flashing.

10. Using sheets of aluminum, construct a secondary flashing out of two pieces of material by cutting out a semi-circle shape on either side while flaring up the edges that will stick up above the tile, creating a "bib" that will go around the fan. Once constructed, install the flashing material on top of the primary flashing and attach using weatherproof sealant.

11. Apply weatherproof sealant all around the fan housing and secondary flashing, closing the gap between the flashing, the fan unit, and the tile. Using an angle grinder, cut the removed tiles as needed. Re-install the tile around the fan unit.

Figure 2.1D

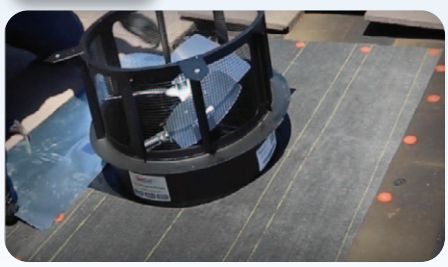


Figure 2.1F

Figure 2.1E

Shingle Roofs:

12. If you have a shingle roof, insert the reciprocating saw sideways between the shingles and roof decking. Starting at the 3 o'clock position of the vent hole, begin cutting in a sweeping motion under the shingles, cutting through any roofing nails or staples. Continue cutting counter-clockwise around the vent hole until reaching the 9 o'clock position. Using a roofing knife, cut a 4 inch horizontal slit in the shingles at the 9 o'clock and 3 o'clock positions of the hole, allowing the fan's flashing to slide underneath the shingles.

13. Slide the fan unit underneath the shingles until the fan reaches the top of the hole. (See Figure 2.3G)

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

15. Secure the fan flashing to the roof using a minimum of 8 roofing nails. Finish applying weatherproof sealant around the fan and nails and secure the shingles by re-nailing them into the roof. (See Figure 2.3I)

Figure 2.3G

Figure 2.3H

Figure 2.3I

Now that you have completed the installation of the RM WHF-4.0 fan unit, it is now time to install your chosen accessories.

Continue below for RM WHF-4.0-DB damper box, duct, and grille accessory installation instructions.

Continue to page 9 for RM WHF-4.0-DG1 damper grille accessory installation instructions.

Continue to page 10 for RM WHF-4.0-DG2 damper grille accessory installation instructions.

2.2 INSTALLING THE RM WHF-4.0-DB

Use the following instructions to finish the installation of your accessory kit.

These instructions are for installing the RM WHF-4.0 with damper box, duct, and grille

1. Using the duct clasp, connect the duct to your fan unit.

2. Determine the location for your damper box. Ensure that the duct will fit with an adequate bend.

3. Go up into the attic to mark the exact location for the damper box. Take the cardboard cutout template and a small screwdriver with you. Make sure the template fits between the framing.

4. When you have chosen your exact spot, place the provided template on the spot and mark it at each corner by pushing the screwdriver through at each corner to make a hole so that you can find it from below. **(See Figure 2.2B)**

5. From below, place the cutout template on the ceiling, making sure that you have at least 2 inches of clearance all around it. While holding the template in place, mark its outline with a pencil. **(See Figure 2.2C)**

6. Using a drywall saw or similar device, cut out the hole in the ceiling. **(See Figure 2.2D)**

NOTE: The QuietCool Damper Box includes removable flanges in the case that you are installing the damper box between studs that are exactly 16" on center. To remove the flanges, simply take a screwdriver and pry between the flange surface and the damper box. Do this along the entire edge of the flange and it will pop off.

NOTE: If installing 24" on center, remove one of the longer side flanges and position that side of the damper box against one of the joists.

IMPORTANT: The damper box flange is designed to sit on the backside of the drywall, inside the attic. Do not attempt to install the damper box with the flanges on the outer side of the drywall in the home.

7. Go back into the attic and set the damper box over the hole in the ceiling. Using the duct clasp, connect the duct to the damper box. **(See Figure 2.2E)**

8. Wrap the duct strap around the duct and attach to the attic rafter. Make sure there are no kinks in the ducting. **(See Figure 2.2F)**

9. From inside the home, fasten the damper box to the drywall and the joist in the attic using drywall screws. **(See Figure 2.2G and 2.2H)**

Figure 2.2B

Figure 2.2C

Figure 2.2D

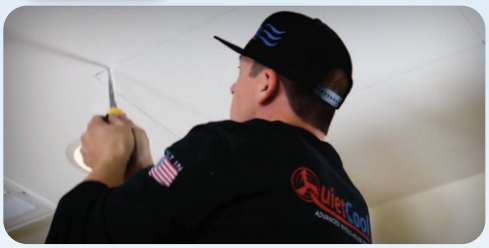


Figure 2.2E

Figure 2.2F

Figure 2.2G

IMPORTANT: You must fasten the damper box to the ceiling joists AND drywall. The purpose of this is to make sure the damper box stays in place when you are screwing in the grille. If you do not fasten the damper box to the drywall, the damper box will not stay in place when attempting to screw in the grille.

10. Center the grille over the damper box. Install the grille with the white screws provided by screwing through the drywall into the flange of the damper box. **(See Figure 2.2I)**

NOTE: To remove grille core for cleaning, use the provided grille removal tool in the corners of the grille core. When removing the grille, make sure to hold the core in place so it does not fall. When ready to put your grille core back in place, simply push it right into place.

Figure 2.2H

Figure 2.2I

2.3 INSTALLING THE RM WHF-4.0-DG1

Use the following instructions to finish the installation of your accessory kit.

These instructions are for installing the RM WHF-4.0 with 22" x 22"damper grille.

IMPORTANT: The RM WHF-4.0-DG1 will only fit 24" on center ceiling joists.

1. Using a stud finder, find and measure your ceiling joists and determine the location for your damper grille. Make sure the damper grille is installed in the same joist bay as the fan.

2. When you have chosen your exact spot, place the provided template on the spot and make sure that you have at least 2 inches of clearance all around it. While holding the template in place, mark its outline with a pencil. **(See Figure 2.3A)**

3. Using a drywall saw or similar device, cut out the hole in the ceiling. **(See Figure 2.3B)**

IMPORTANT: If there is venting in the cavity that the fan and grilles are being installed in, you will need to seal off the sides next to the damper grille and fan hole creating an air tight cavity. If installing on a sloped ceiling, be sure the dampers are installed so they open from the bottom side of the slope so gravity will close the dampers when the fan is turned off. If installed incorrectly, the dampers will not properly close.

4. Place the grille in the ceiling cutout. Install the grille with the white screws provided by screwing through the drywall. **(See Figure 2.3C)**

Figure 2.3A

Figure 2.3B

Figure 2.3C

2.4 INSTALLING THE RM WHF-4.0-DG2

Use the following instructions to finish the installation of your accessory kit.

These instructions are for installing the RM WHF-4.0 with (2) 16" x 16" damper grilles.

1. Using a stud finder, find and measure your ceiling joists and determine the location for your damper grilles. Make sure the fan is equally centered between the two damper grille locations. Make sure the damper grilles are installed in the same joist bay as the fan.

2. When you have chosen your exact spot, place the provided template on the spot and make sure that you have at least 2 inches of clearance all around it. While holding the template in place, mark its outline with a pencil. **(See Figure 2.4A)**

3. Using a drywall saw or similar device, cut out the hole in the ceiling. **(See Figure 2.4B)**

IMPORTANT: If there is venting in the cavity that the fan and grilles are being installed in, you will need to seal off the side next to the damper grilles creating an air tight cavity. If installing on a sloped ceiling, be sure the dampers are installed so they open from the bottom side of the slope so gravity will close the dampers when the fan is turned off. If installed incorrectly, the dampers will not properly close.

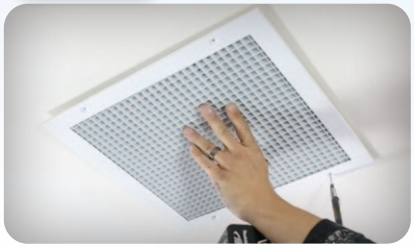
4. Remove the damper grille and screws from its packaging. Place the grille in the ceiling cutout. Install the grille with the white screws provided by screwing through the drywall. **(See Figure 2.4C)**

5. Repeat steps 2 through 4 for the second damper grille.

Figure 2.4A

Figure 2.4B

Figure 2.4C



2.5 INSTALLING THE RM WHF-4.0-PL

Use the following instructions to finish the installation of your accessory kit.

These instructions are for installing the RM WHF-4.0 with Plenum Box and 22" x 22" damper grille.

IMPORTANT: This installation requires roof rafters that are 24" on center.

1. Once you have determined the location for both the fan and damper grille, use the supplied square template to cut out your roofing and ceiling material for the supplied Plenum Flash Mount and damper grille. **(See Figure 2.5A)**

Figure 2.5A

2. Secure the Flash Mount to the roof. Finish sealing around the Flash Mount and flash it into the roof to make a nice seal. If using peel and stick to flash the flash mount, be sure to not apply too high on the flash mount so it does not interfere with the plenum box when sliding the box over the flash mount. **(See Figure 2.5C)** Take the plenum box and slide the Flash Mount lip into the plenum box. **(See Figure 2.5D)**

3. Adjust the plenum box legs to position the plenum box properly on the roof. Using roofing fasteners, fasten the plenum box to the roof. **(See Figure 2.5E)**

4. Apply weatherproof sealant to the plenum box legs. **(See Figure 2.5F)**

5. Remove the duct collar from the fan unit. **(See Figure 2.5G)**

Figure 2.5B

Figure 2.5C

Figure 2.5D

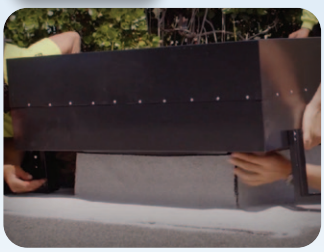


Figure 2.5E

Figure 2.5F

Figure 2.5G

6. Position the fan on it's side. Remove the power cord from the RF Control Hub and remove the flex connector from the RF Control Hub **(see Figure 2.5H)**. Using tin snips, cut the metal out from around the fan flex **(See Figure 2.5I)**. Using the flex connector, run the fan flex into the junction box on the bottom floor of the plenum box. Remove junction box plate cover and tie wires together by matching the colors **(See Figure 2.5J)**. Re-install the plate cover.

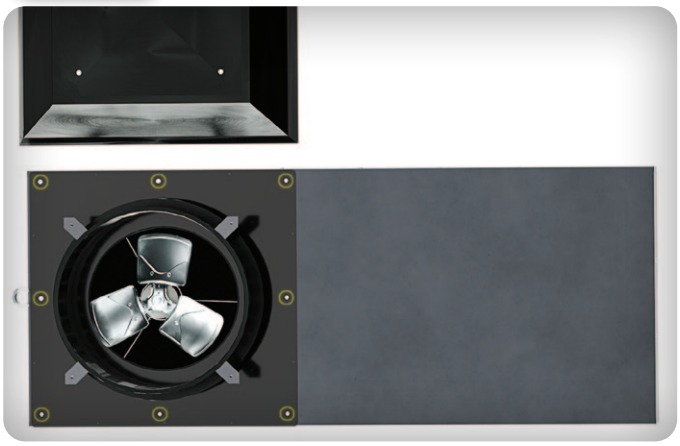
Figure 2.5H

Figure 2.5I

Figure 2.5J

Figure 2.5K

Figure 2.5L



7. Lifting the fan unit up at an angle, apply weatherproof sealant to the bottom side of the fan unit. This will ensure nice and tight seal. **(See Figure 2.5K)**

8. Position the fan over the circle fan hole in the plenum box. Remove the roof cap. Using the 8 supplied hex-head screws with rubber-bonded washers, attach the fan unit to the plenum box. Be sure to seal around the screw head. These screws should be installed as shown in **Figure 2.5L** so that 6 of the screws are installed into the bracing of the plenum box.

NOTE: The Plenum Box includes a weatherproof EMT compression connector. The connector is installed to the plenum box in the proper orientation to run electrical piping directly into the plenum box, however, you can also swap the connector around if you want to install a weatherproof junction box. If you are installing a weatherproof junction box on the outside of the plenum, be sure to move the weatherproof seal so the seal is on the threads that are on the outside of the plenum box after swapping the connector around. These threads will screw directly into the junction box. (See Figure 2.5M for the proper orientation of the connector when using a weatherproof junction box).

Figure 2.5M

9. Run your electrical piping/EMT into the half inch knockout in the plenum box. From inside the home, mount the RF Control Hub into the half inch knockout in the plenum box. Bring your electrical wires into the backside of the RF Control Hub. Slide your lock nut over the wires and thread it onto the 1/2" flex connector to secure the RF Control Hub to the plenum box. Bring the fan wires from the harness inside the plenum box into the RF Control Hub **(See Figure 2.5N).**

Figure 2.5N

10. Follow the wiring instructions on page 13 to wire your RF Control Hub to the power source.

Figure 2.5O

Figure 2.5P

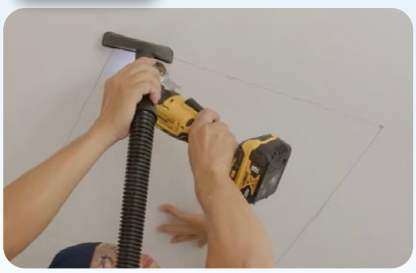


Figure 2.5Q

11. Use the supplied template to cut out your grille hole **(See Figure 2.5O and 2.5P).**

NOTE: If you have open wood ceilings with no drywall, you will need to frame in the grille to ensure there is enough wood for the grille screws to not pierce through the roof. We recommend using 1/2" to 1" wood framing. (See Figure 2.5Q)

IMPORTANT: If installing on a sloped ceiling, be sure the dampers are installed so they open from the bottom side of the slope so gravity will close the dampers when the fan is turned off. If installed incorrectly, the dampers will not properly close.

12. Place the grille in the cutout. Install the grille with the white screws provided. **(See Figure 2.5R for open wood ceiling installations or 2.5S for drywall installations)**

Figure 2.5R

Figure 2.5S

3. WIRING

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

NOTE FOR BUILDERS: Where use of arc-fault breakers are 100% implemented in the home, or if the whole house fan is installed in a wet area such as a bathroom, wiring a dedicated circuit may be required.

NOTE: Your fan came with the RF Hub pre-wired to a power cord for testing purposes before installation. The power cord can be used when installed inside of an attic. DO NOT USE THE POWER CORD OUTDOORS. If you would like to hard-wire the fan, or it is required by your local building codes, please follow the wiring instructions below.

1. Using a wire nut, connect the black wire from the power source to the black wire from the Hub.

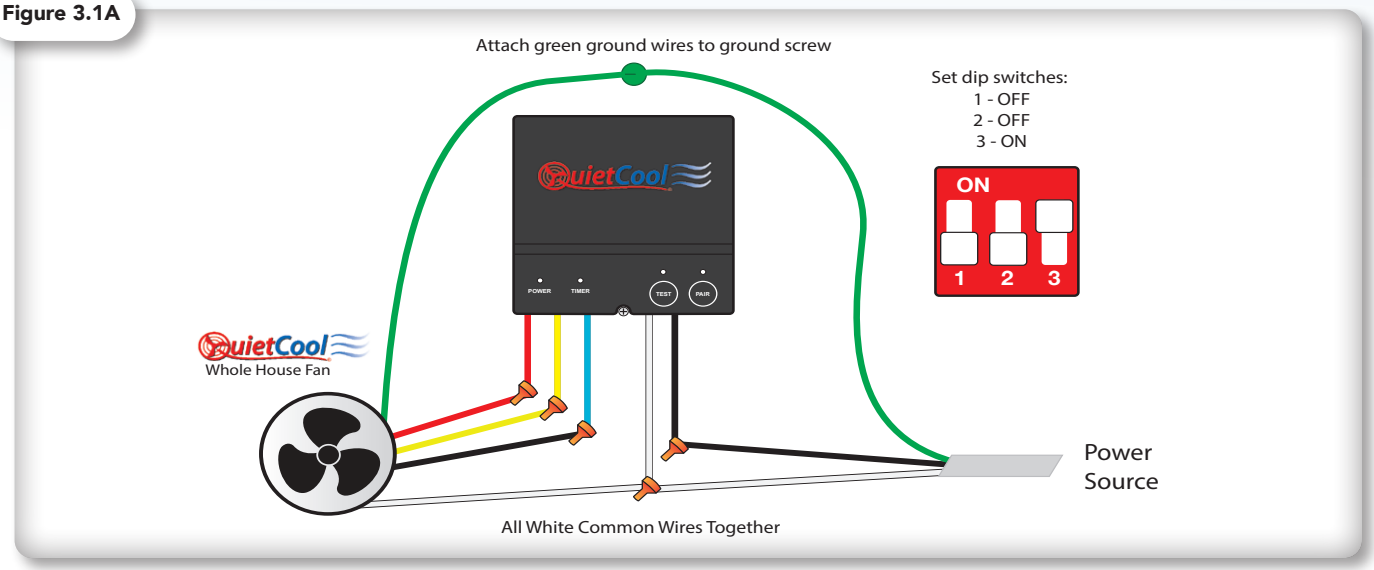
2. Connect the white wire from the power source and the white wire on the fan to the white wire from the Hub.

3. Connect the red wire from the fan to the red wire on the Hub Connect the yellow wire from the fan to the yellow wire on the Hub. Connect the black wire from the fan to the blue wire on the Hub.

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

5. Set the dip switch positions inside the Hub as shown in the diagram. Power-on the Hub. The Power LED indicator will be lit.

Figure 3.1A

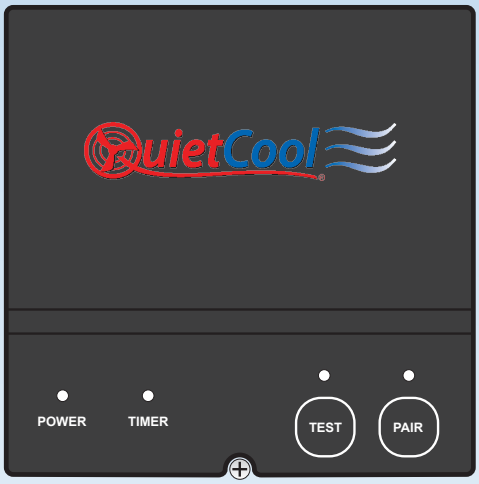


6. Press the Test button to make sure the fan works. The Test LED indicator will blink three times every two seconds indicating 3-speed and the fan will be on high. Press the Test button again and the fan will switch to medium speed. Press the Test button again and the fan will switch to low speed. Press the Test button again and the fan should shut off and the LED will be off. If the fan doesn't operate as described, please check the dip switch position.

3.2 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 Hour: 1 Blink
  - 2 Hours: 2 Blinks
  - 4 Hours: 4 Blinks
  - 8 Hours: 8 Blinks
  - 12 Hours: 12 Blinks
  - 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:
- High Speed: LED indicator will blink three times every two seconds
- Medium Speed: LED indicator will blink twice every two seconds
- Low Speed: LED indicator will blink once every two seconds

PAIR INDICATOR

- The Pair LED indicator will light up when making pair operations. Please see below 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 Figure 3.1A on pg. 11.

3.3 PAIRING THE WALL SWITCH

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.

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

ⓘ **NOTE: You can connect up to 20 switches to a single 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.**

3.4 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.

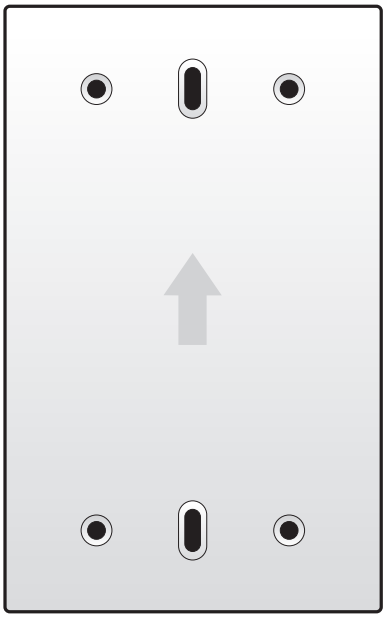
4. If all the LED indicators turn on, the Wall Switch is not communicating with the Hub and you will need to find a location closer to the fan.

3.5 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.

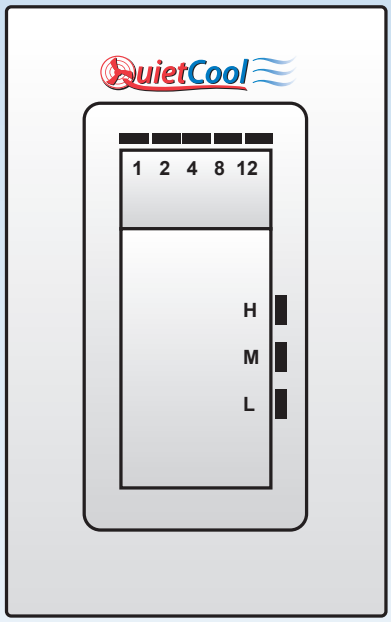


4. SYSTEM OPERATING INSTRUCTIONS

4.1 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.
- To turn the fan off, you must cycle through the time settings until the lights turn off.



SPEED BUTTON

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

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.

NOTE 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.

4.2 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?

Up-to one year.

WHY ARE ALL THE 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.

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.

4.3 WHEN TO RUN A QUIETCOOL WHOLE HOUSE FAN

Anytime it is cooler outside than the inside of your home, the system will work effectively. In the summer this normally happens in the late afternoon to early evening, through to the next morning. We recommend running your fan through the evening. If you have a multi-speed fan, you will get the best cooling effect when you turn the fan on low after desired cooling occurs and let it run throughout the night.

QuietCool can also be used in the winter to heat your home during the day and exhaust the pollutants inside your home.

4.4 WHERE TO START COOLING THE HOME

We recommend cooling the area where you are going to be spending the most time for the next few hours. For example, in most family situations, the early evening is spent in the kitchen or family room area. Assuming this to be true, this is where you would want to start the cooling process.

Begin by opening a **few windows** in the area you are going to be spending your time and turn on all of your QuietCool fans at once, for maximum cooling. The cooler air outside will immediately begin to create a breeze in the home making you feel up to 10 degrees cooler, instantly. Opening windows too wide or opening too many windows will lessen the cooling breeze you feel.

The breeze will flow through your home and make its way to each QuietCool you have in operation.

As it gets later in the evening, and even cooler outside, you can begin to open windows in other rooms of your home, to prepare for bedtime. Then when it's time for bed, you should close all the windows in your main living space, but leave the windows in your occupied bedrooms open. This will provide each room with a cool breeze as long as desired. If you are using an 8 hour timer, you can automate your fan and have it turn off when you anticipate it being comfortable for sleeping. If you have a QuietCool installed in each bedroom as we recommend, you can enjoy the breeze and your privacy with your door closed.

4.5 INDOOR AIR QUALITY

You will want to ventilate your home on a very regular basis. Many studies such as one from the Environmental Protection Agency show that the air inside homes can be 2-5 times more polluted than the air outside, even in the smoggiest of cities. Your QuietCool system can greatly reduce this problem by bringing in fresh air and exhausting stale polluted air all year round.

If you have any trouble installing or operating your new QuietCool Whole House Fan, or for more tips on running the QuietCool, please visit our website at **www.QuietCoolSystems.com** or call us at **(951) 325-6340** for support.

QUIETCOOL IS PROUDLY DESIGNED AND BUILT IN CALIFORNIA.

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

RM WHOLE HOUSE FANS LIMITED WARRANTY

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

Limitations

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

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

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

However, QC will NOT compensate you for:

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

Paint Coating Warranty Coverage

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

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

RM WHOLE HOUSE FANS LIMITED WARRANTY

Limited Warranty Protection

RM Whole House Fan - Controls

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

Motor Replacements

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

Other Conditions

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

Products	Model Numbers	Warranty
Roof Mount Whole House Fans	RM WHF-4.0, RM WHF-4.0-DB, RM WHF-4.0-DG1, RM WHF-4.0DG2, RM WHF-4.0-PL	Fifteen (15) Year coverage applies to the QuietCool motor fan assembly which includes Motor, Fan Blade, Fan Housing and Cover. Five (5) Year coverage applies to paint coating of fan housing and cover. One (1) Year coverage for all other components including grilles, housings, damper boxes, ducts, controls and accessories furnished by QC Manufacturing, Inc.
Accessories	**Model Numbers**	**Warranty**
Controls	IT-RFHUB-01, IT-RFSWITCH-01	One (1) Year coverage applies to the models indicated.

How to Start the Warranty Process

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

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

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

Rev. 3/14/23

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

FAN SERIAL NUMBER INFORMATION

RETAIN FOR YOUR RECORDS.

SERIAL NUMBER IS REQUIRED FOR WARRANTY PURPOSES.