QuietCool

OWNER'S GUIDE
GARAGE FANS

GA ES-1500

GX ES-1100

CONTENTS

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.

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

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

15 YEAR WARRANTY

BUILT IN USA

1. SYSTEM OVERVIEW

1.1   INTRODUCTION

CONGRATULATIONS

on the purchase of your new QuietCool Garage Fan!

The QuietCool Garage Fans offer great ventilation options for your garage, man cave, or workshop.

We offer the GA ES-1500 Garage Whole House Fan to ventilate both your garage and attic.

We also offer the GX ES-1100 to ventilate your garage only, with a wall mount design.

1.2   FEATURES

+ Ultra-Energy Efficient Electronically Commutated Motor (ECM)
+ Built in USA
+ 15-Year Warranty
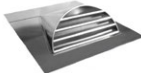+ Included RF WIreless Control Kit (GA)
+ Included Adjustable Thermostat (GX)

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

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

Vent Type	Model Type	Average Size	Venting Sq. Ft.
Gable vent		12" x 19.5"	1.20
Dormer Vent		14" x 8"	0.70
Eave Vent		4" 5" 6"	0.03 0.04 0.07
Ridge Vent		4' - 12'	0.125 per ft
Soffit Vent		16" x 4" 16" x 6" 16" x 8"	0.19 0.29 0.39
O'Hagin Vent		Low/Medium Profile Tapered Low Profile Low Profile Flat High Profile	0.5 0.6 0.68 0.68
Turbine Vent		8" 12" 14"	.35 .79 1.1

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

2. INSTALLATION

2.1 INSTALLING THE GA ES-1500

⊙ **VERY IMPORTANT:** MINIMUM OF 26" CLEARANCE REQUIRED ABOVE CEILING FOR INSTALLATION OF GA MODEL FANS. ALWAYS FOLLOW LOCAL BUILDING CODES.

1. Determine in which area you would like to install your QuietCool Garage Attic Fan.

2. Now it's time to find the exact location using a stud finder or by going up into the attic and finding the location. Locate the ceiling studs and mark the location for the fan to be installed.

3. One side of the cut out should be directly next to a wood member for proper fan mounting and support.

⊙ **NOTE: The QuietCool Garage Whole House Fan includes removable flanges in the case that you are installing the fan between studs that are exactly 16" on center. To remove the flanges, simply take a screwdriver and pry between the flange surface and the fan. Do this along the entire edge of the flange and it will pop off.**

4. When you find the location, from down below mark a square using the template. Make sure you have 2" of clearance all the way around it so the grille fits with no obstructions. **(see Figure 2.1A)**

5. Starting at one corner of the square using a drywall saw, cut out the opening. Remove the drywall cutout and clear away insulation (if applicable). **(see Figure 2.1B)**

6. Take the GA fan model into the attic and place it over the ceiling cut out. **(see Figure 2.1C).** If needed, you can remove the ceiling flanges and pass the fan directly through the ceiling cut-out.

7. Attach the fan using screws into the ceiling joists. **(see Figure 2.1D)**.

8. Install the ceiling grille. **(see Figure 2.1E)**

⊙ **VERY IMPORTANT: Check to make sure fan blade spins freely and the fire damper closes easily. Make sure to secure the clip in the open position. See page 6 for more information**
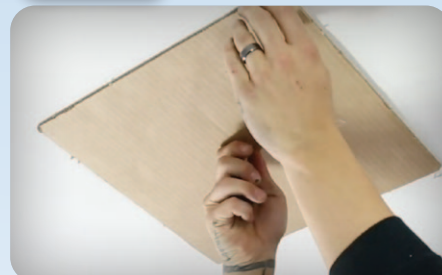
Figure 2.1A

Figure 2.1B

Figure 2.1C

Figure 2.1D

Figure 2.1E

2.2   SETTING THE GA ES-1500 FIRE DAMPER

The GA ES-1500 includes an integrated fire damper that will automatically close if a fire starts inside your attic.

Here are the steps to set the fire damper.

1.   The GA ES-1500 ships with the fire damper in the closed position.

2.   Using your hands, open the fire damper.

3.   Pull the clip from one fire damper to the other and make sure it is secured in the open position.

Figure 2.2A

Figure 2.2B

Figure 2.2C

2.3   INSTALLING THE GX ES-1100

1.   Determine in which area you would like to install your QuietCool Garage Exterior Mount Fan.

2.   Now it's time to find the exact location using a stud finder. Locate the wall studs and mark the location for the fan to be installed **(see Figure 2.3A)**. One side of the cut out should be directly next to a wood member for proper fan mounting and support.

3.   When you find the location, mark a 14 1/4" square using a framing square or template. Make sure you have 2" of clearance all the way around it. The grille that will be installed later is a 16" square **(see Figure 2.3B)**.

4.   Starting at one corner of the square using a drywall saw, cut out the opening. Remove the drywall cutout and clear away insulation (if applicable).

5.   From the interior, drill a hole through the exterior at the four corners of the cut out **(see Figure 2.3C)**.

6.   Go to the exterior and place the square wall mounting bracket aligned to the 4 drilled holes.

7.   Using a level, mark the inside of the bracket with a pencil **(see Figure 2.3D)**.

8. Using a saw or angle grinder, cut out the marked area of stucco or siding **(see Figure 2.3E)**.

9. Remove cut out of exterior stucco or siding. Then cut out any applicable sheathing.

10. Now install the exterior cover frame. Make sure the frame is level and then attach the four corners with long enough screws to penetrate the wood studs. Note: Predrilling may be required **(see Figure 2.3F)**.

11. Place fan into the cut out area. Fasten the fan in each 4 corners to the vertical wood studs **(see Figure 2.3G)**.

12. Caulk exterior around frame **(see Figure 2.3H)**.

13. Attach the exterior cover to mounting frame using 4 sheet metal screws **(see Figure 2.3I)**.

14. Mount inside wall grille **(see Figure 2.3J).**

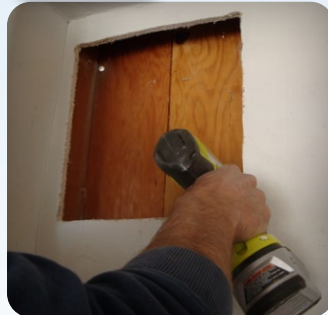Figure 2.2A

Figure 2.2B

Figure 2.2C

Figure 2.2D

Figure 2.2E
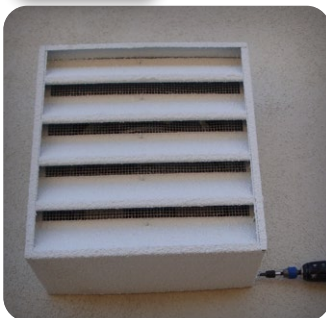
Figure 2.2F

Figure 2.2G

Figure 2.2H

Figure 2.2I

Figure 2.2J

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: Your fan may have come with the RF Hub or Thermostat 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.

3.1 GX ES-1100 WIRING WITH THERMOSTAT

1. Mount a junction box for your thermostat in the best location for thermostat readings which is usually on the wall next to the light switch or garage door opener in the garage. Begin wiring the thermostat.

2. With a 3 wire Romex, tie the black wire to the black wire from the thermostat.

3. Mark the white common wire on both sides of the 2 wire Romex because we will be using this as our switch leg.

4. Tie the red wire and the taped white wire together.

5. Attach the ground wire to the ground screw on the timer.

6. In the fan's junction box, tie the black wire from the fan to the taped white wire.

7. Tie the two remaining black wires together. Then, tie the remaining copper wires together.

Figure 3.1A

Ground the fan to the junction box using the green ground screw

QuietCool

Junction Box

2 Wire Romex

Power Source

2 Wire Romex

50 60 70 80 90
65   75
55   85
OFF
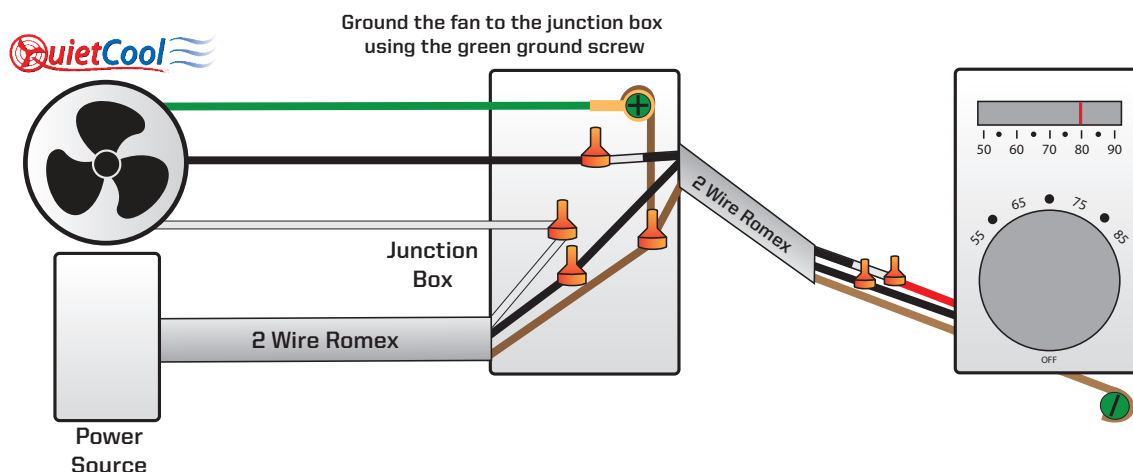
3.2 GA ES-1500 WIRING WITH RF CONTROL

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. Cap the red wire on the Hub.

4. Cap the yellow wire on the Hub.

5. Connect the black wire from the fan to the blue wire on the Hub.

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

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

Figure 3.2A

Attach green ground wires to ground screw

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

All White Common Wires Together
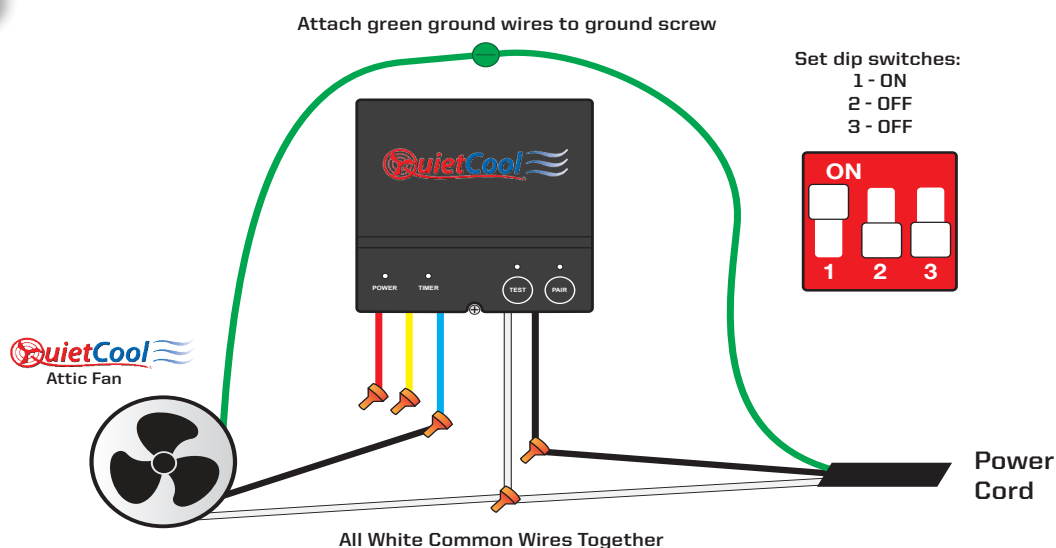
8. Power-on the Hub. The Power LED indicator will be lit.

9. Press the Test button to make sure the fan works. The Test LED indicator will blink three times every two seconds indicating 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.

10. If the fan doesn't operate as described in step 9, please check the dip switch postion.

11. You can connect up to 20 switches to a single hub.

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
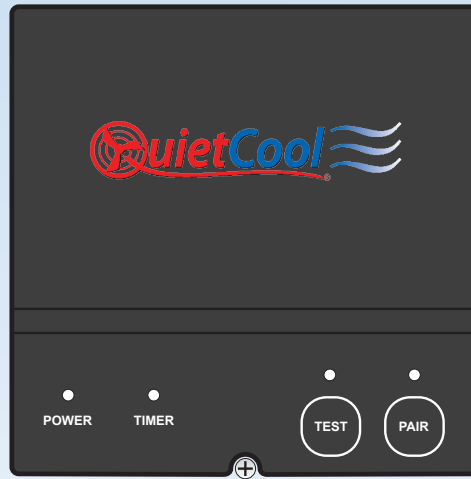
TEST INDICATOR
- The Test LED indicator will light up as shown below when the Test button is pressed and when the fan is turned on via the Wall Switch:
- High Speed: LED indicator will blink three times every two seconds.

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 3.2A on pg. 9.

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:** **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.
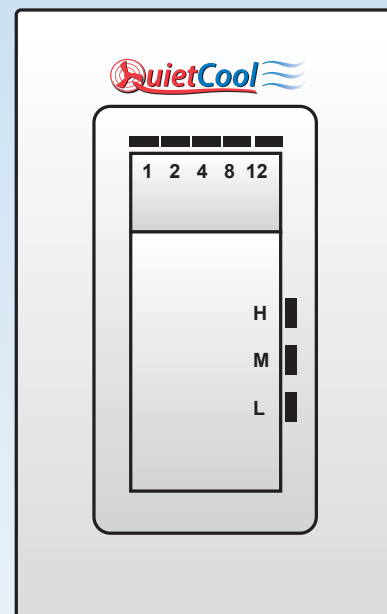
4.2 FREQUENTLY ASKED QUESTIONS

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 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.

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. Refer to page 9 for more information.

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.

QC Manufacturing Inc.
MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

GARAGE 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 from anything other than an inherent manufacturing defect in your Fan, such as:
   • Improper installation of you 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.
2. Damage to your Fan or leaking into your building resulting from factor beyond QC's control, including, but not limited to:
   • Improper storage or handling of your Fan.
   • Acts of God, such as hail, storms, or winds.
3. Damage resulting from the application of overlying or adjacent roofing materials.
4. Damage resulting from mold growth or condensation.
5. Chipping, fading, or peeling paint on your Fan.
6. Labor costs for removing or replacing your Fan except as specifically provided for above or for any other roofing or building materials.

Limited Warranty Protection
Garage 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.

QC Manufacturing Inc.

MAKERS OF THE QUIETCOOL ADVANCED WHOLE HOUSE FAN

GARAGE FANS LIMITED WARRANTY

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
Garage Fans	GA ES-1500, GX ES-1100	Fifteen (15) Year coverage applies to the QuietCool motor fan assembly. Which includes Motor and Fan Blade. 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. 9/26/22

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.