

Genteq 1172248 / HQ1172248EM

Genteq Condenser Fan Motor User Manual

Model: 1172248 / HQ1172248EM

Brand: [Genteq](#)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Genteq Condenser Fan Motor, model 1172248 / HQ1172248EM. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

WARNING: This product operates with high voltage. Improper installation or maintenance can result in electric shock, serious injury, or death. Always disconnect power before working on the motor or associated equipment.

- Installation and servicing should only be performed by qualified and licensed HVAC technicians.
- Ensure all local and national electrical codes are followed.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify the motor's voltage and current ratings match the system's requirements before installation.
- This motor is thermally protected, which means it has an internal device that will shut off the motor if it overheats to prevent damage.

3. PRODUCT OVERVIEW

The Genteq 1172248 / HQ1172248EM is a high-quality condenser fan motor designed for various HVAC applications, including ICP, Heil, Tempstar, and Comfort Maker units. It is a 2-speed motor, built for reliable performance in demanding environments.

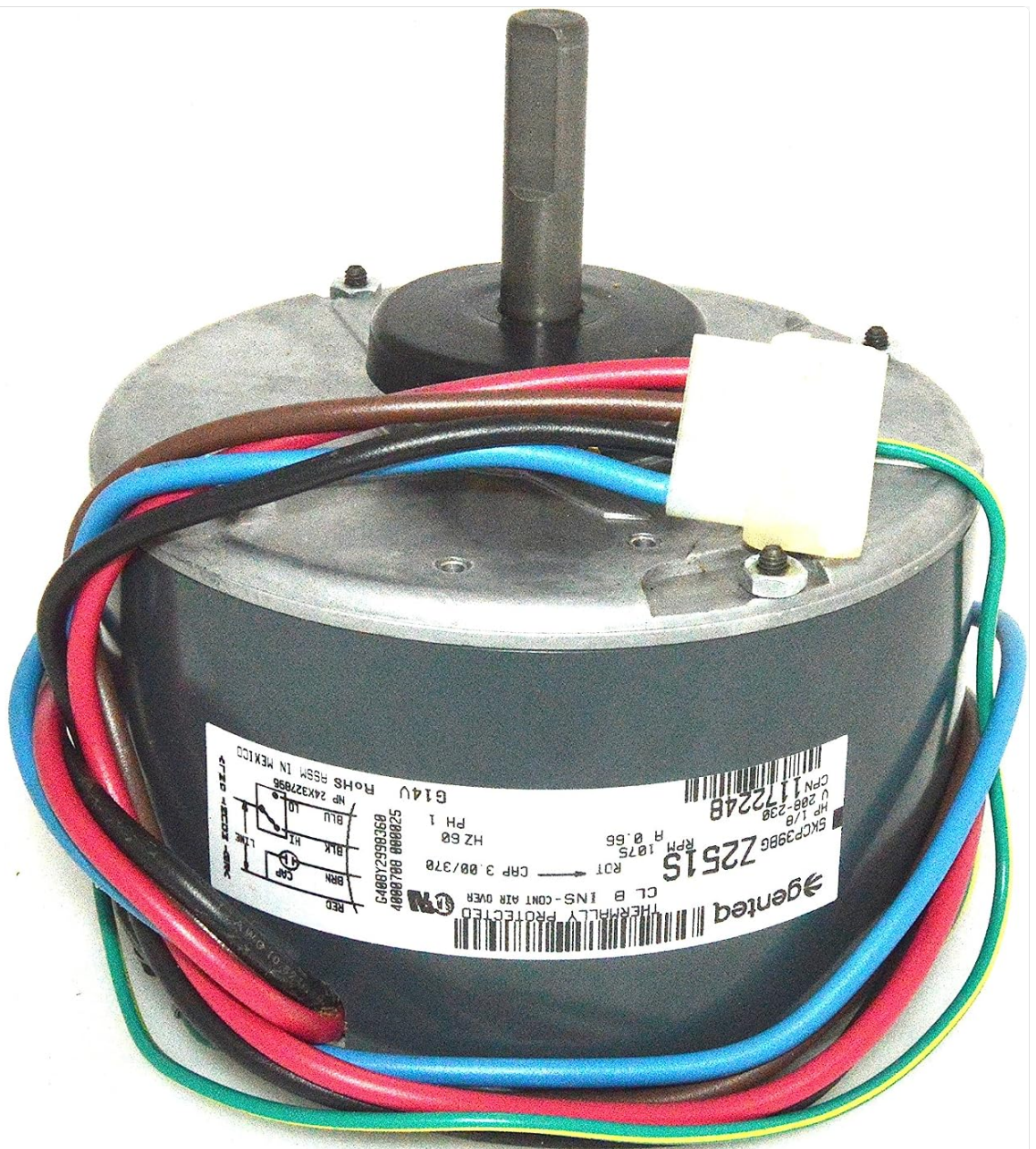


Image: Genteq Condenser Fan Motor. This image displays the Genteq condenser fan motor, showing its cylindrical body, the central shaft, and the multi-colored wiring harness. A white plastic connector is visible, along with a product label on the side of the motor detailing specifications such as model number, voltage, RPM, and thermal protection.

Key Features:

- 1/8 HP (0.2 hp)
- 230V operating voltage
- 1075 RPM speed
- Part Number: 1172248 (also known as HC35GZ005A & GE # 5KCP39BGY148S)
- 5 5/8" diameter (Frame 48Y)
- Shaft extends 2.25" from the motor
- Counter-clockwise rotation when shaft is facing up
- Equipped with a 4-wire plastic plug (can be used or cut off)
- Thermally Protected for enhanced safety
- Insulation Class B (CL B INS-CONT AIR OVER)
- Capacitor Rating: 3.00/378 (as indicated on motor label)

4. SETUP AND INSTALLATION

Installation of the condenser fan motor requires specialized knowledge and tools. It is strongly recommended that installation be performed by a certified HVAC professional.

General Installation Steps (for qualified personnel):

1. **Power Disconnection:** Ensure all power to the HVAC unit is completely disconnected at the circuit breaker or fuse box before beginning any work. Verify with a voltage meter.
2. **Access:** Safely access the condenser fan motor compartment, typically by removing the top grille or side panels of the outdoor unit.
3. **Old Motor Removal:** Disconnect the wiring from the old motor, noting the connections. Remove any mounting bolts or clamps securing the old motor. Carefully remove the fan blade from the old motor shaft.
4. **Fan Blade Transfer:** Securely attach the existing fan blade to the shaft of the new Genteq motor. Ensure the blade is balanced and tightened properly.
5. **New Motor Mounting:** Mount the new motor in the same position as the old one, ensuring it is securely fastened.
6. **Wiring Connections:** Connect the new motor's wiring according to the unit's wiring diagram and the motor's label. The motor features a 4-wire plastic plug, which can be used directly if compatible, or the wires can be cut and spliced as needed. Refer to the motor's label for specific wire color functions (e.g., RED, CAP, BRN, LINE, BLK HI, BLU LO).
7. **Capacitor Connection:** Ensure the correct capacitor (3.00/378 as indicated on the motor label) is properly connected to the motor.
8. **Reassembly:** Reassemble the unit's panels and grille.
9. **Testing:** Restore power to the unit and test the fan motor's operation. Observe for proper rotation (counter-clockwise when shaft is facing up) and smooth, quiet operation.

For detailed wiring instructions, always refer to the specific wiring diagram provided with your HVAC unit and the motor's product label.

5. OPERATING INSTRUCTIONS

Once properly installed, the Genteq condenser fan motor operates automatically as part of your HVAC system's cooling cycle. It is designed for continuous operation during cooling demands.

- Ensure the area around the outdoor unit is clear of obstructions to allow for proper airflow.
- Listen for any unusual noises during operation, which may indicate a problem.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your condenser fan motor. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the motor and fan blade annually for wear, damage, or imbalance.
- **Cleaning:** Periodically clean any debris (leaves, dirt, etc.) from the fan blades and the motor housing. Use a soft brush or cloth. Do not use water directly on the motor.
- **Wiring Check:** Inspect wiring connections for tightness and signs of corrosion or damage.
- **Shaft Lubrication:** This motor is typically sealed and does not require lubrication. Refer to the motor's specific instructions if unsure.

7. TROUBLESHOOTING

If you experience issues with your condenser fan motor, consider the following common problems. For complex issues, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power, faulty capacitor, motor overload (thermal protection tripped), seized bearings.	Check power supply. Inspect/replace capacitor. Allow motor to cool if thermal protection tripped. Consult technician for seized bearings.
Motor runs hot	Insufficient airflow, incorrect voltage, motor overload, worn bearings.	Clear obstructions around unit. Verify correct voltage. Check for fan blade obstruction. Consult technician.
Unusual noise (humming, grinding)	Loose fan blade, worn bearings, foreign object in fan.	Secure fan blade. Remove foreign objects. Consult technician for worn bearings.
Fan blade not spinning freely	Obstruction, seized motor shaft.	Remove obstruction. Consult technician for seized shaft.

8. SPECIFICATIONS

Attribute	Value
Brand	Genteq
Model Number	1172248 / HQ1172248EM
Horsepower (HP)	1/8 HP (0.2 hp)
Voltage	230 Volts
Speed	1075 RPM
Material	Plastic
Manufacturer	iCP / Heil / Tempstar
UPC	751109532274
ASIN	B0157A8A68
Capacitor Rating	3.00/378 (as per motor label)
Frame Size	48Y (5 5/8" diameter)
Shaft Extension	2.25"
Rotation	Counter-Clockwise (CCW) when shaft is facing up
Thermal Protection	Yes (Thermally Protected)
Insulation Class	CL B INS-CONT AIR OVER
Assembly Location	ROHS ASSM IN MEXICO

Attribute	Value
Other Identifiers	SKCP39BG Z251S, G408Y2998360, 4080708 000025

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided with your purchase or contact Genteq customer support directly. For technical assistance or professional servicing, it is recommended to contact a certified HVAC technician.

