

**Genteq 1085926**

# Instruction Manual

## OEM ICP HEIL TEMPSTAR EMERSON CONDENSER FAN MOTOR

Model: 1085926 (HQ1085926EM)

Brand: Genteq

### 1. Product Overview

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This manual provides essential information for the safe and efficient operation of your Genteq OEM ICP Heil Tempstar Emerson Condenser Fan Motor. This motor is a direct replacement part for various HVAC units, ensuring proper air circulation for optimal cooling performance.



A detailed view of the Genteq condenser fan motor, showing its cylindrical body, shaft, wiring, and product label. The label indicates model number, electrical specifications, and safety warnings.

## 2. Important Safety Instructions

Read all safety information thoroughly before attempting any installation or servicing. Failure to follow these instructions may result in electrical shock, injury, or damage to the product.

- **WARNING:** Disconnect all power to the HVAC unit at the circuit breaker before servicing the motor. Verify power is off

with a voltage tester.

- Follow all national and local electrical codes for proper grounding and insulation of unused lead wires individually.
- This motor is **thermally protected** to prevent overheating.
- To reduce potential electrical shock, always follow all safety information provided on the motor label and in this manual.

For additional safety information and product details, please visit the manufacturer's website: [www.usmotors.com](http://www.usmotors.com).

### 3. Technical Specifications

Key technical specifications for the Genteq Condenser Fan Motor:

Property	Value
Manufacturer	ICP / Heil / Tempstar
Part Number	1085926 (HQ1085926EM)
Item Model Number	1085926
Size / Frame	48Y Frame (5 5/8" diameter)
Material	Plastic
Voltage	208-230 Volts
Horsepower (HP)	0.33 hp (1/3 HP)
Amperage (A)	1.9 A
Speed (RPM)	1075 RPM
Capacitor Requirement	5 MFD, 370 VAC
Shaft Extension	2 inches
Item Package Quantity	1

### 4. Setup and Installation

This section outlines the general steps for installing the condenser fan motor. Professional installation by a qualified HVAC technician is highly recommended to ensure safety and proper function.

1. **Safety First:** Before beginning any work, ensure all power to the HVAC unit is completely disconnected at the main circuit breaker. Use a voltage tester to confirm that no power is present at the unit.
2. **Access the Motor:** Locate and carefully access the existing condenser fan motor within your HVAC unit. This may involve removing protective grilles or panels.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Note the connections (e.g., 3 wires into a plastic plug) and take photos if necessary for reference during re-connection.
4. **Remove Old Motor:** Unmount and remove the old motor from its bracket. Be aware that mounting nuts are typically not included with the new motor. The mounting bolts are commonly #10-32.
5. **Install New Motor:** Mount the new Genteq motor securely into the bracket. Ensure proper alignment of the motor shaft with the fan blade hub.
6. **Connect Wiring:** Connect the new motor's wires according to the previous configuration. The motor has 3 wires that may go into a plastic plug; this plug can be used as is or cut off if direct wiring is preferred. Ensure all connections are

secure and properly insulated.

- 7. Reassemble and Test:** Reassemble any removed panels or grilles. Restore power to the unit at the circuit breaker. Test the motor's operation, observing for smooth rotation, proper fan blade movement, and absence of unusual noises.

## 5. Operating Principles

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The Genteq condenser fan motor is an integral component of your HVAC system's cooling cycle. Understanding its function is key to recognizing proper operation.

- **Function:** This motor drives the condenser fan blade, which is responsible for pulling ambient air through the outdoor condenser coil. This airflow facilitates the dissipation of heat from the refrigerant, allowing it to condense from a gas to a liquid.
- **Voltage:** The motor is designed to operate on a 208-230V AC power supply, which is standard for many residential and light commercial HVAC systems.
- **Rotation:** The motor is designed for a specific direction of rotation, which is typically indicated by an arrow on the motor label. Ensure the fan blade is installed to match this rotation for optimal airflow and system efficiency. Incorrect rotation can lead to poor cooling performance and motor strain.

## 6. Maintenance and Care

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Regular, simple maintenance can significantly extend the lifespan and ensure the efficient operation of your condenser fan motor.

- **Cleaning:** Periodically inspect the motor and fan blades for accumulation of dirt, dust, leaves, and other debris. Ensure power is disconnected before cleaning. Gently clean the motor housing and fan blades with a soft brush or cloth. Excessive debris can impede airflow and cause the motor to overheat.
- **Wiring Inspection:** Annually, or during routine HVAC maintenance, inspect all wiring connections for any signs of wear, fraying, corrosion, or loose terminals. Secure any loose connections.
- **Lubrication:** This motor is typically a sealed unit and does not require user lubrication. Attempting to lubricate sealed bearings can cause damage. Refer to the manufacturer's specific guidelines if unsure.
- **Vibration and Noise:** During operation, listen for any unusual noises (e.g., grinding, squealing) or observe excessive vibration. These can indicate issues such as worn bearings, an unbalanced fan blade, or loose mounting. Address these promptly to prevent further damage.

## 7. Troubleshooting Common Issues

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This section provides guidance for common issues you might encounter with your condenser fan motor. For complex problems or if you are unsure, consult a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power to the unit; Faulty wiring connection; Seized motor shaft; Faulty run capacitor.	Check circuit breaker and power supply; Inspect all wiring connections; Manually check if motor shaft turns freely; Test and replace capacitor if faulty.
Motor runs hot / Overheats	Restricted airflow around condenser coil; Incorrect voltage supply; Failing motor bearings.	Clear any obstructions (debris, foliage) from around the condenser unit; Verify voltage supply matches motor requirements; Professional inspection for bearing issues.
Excessive noise or vibration	Loose mounting bolts; Unbalanced or damaged fan blade; Worn motor bearings.	Tighten all mounting bolts; Inspect fan blade for damage and balance; Professional inspection for bearing replacement.

Problem	Possible Cause	Solution
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Motor hums but doesn't turn	Faulty run capacitor; Seized motor shaft.	Test and replace the run capacitor; Check if the motor shaft can be turned manually.
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## 8. Warranty Information and Customer Support

This Genteq product is covered by the manufacturer's standard warranty against defects in materials and workmanship. Please retain your proof of purchase for any warranty claims.

For technical assistance, warranty inquiries, or further support, please contact your original point of purchase or refer to the manufacturer's official website:

[www.usmotors.com](http://www.usmotors.com)

**Model Number:** 1085926

**Part Number:** HQ1085926EM

Documents - Genteq – 1085926

no relevant documents