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Genteq HQ1013341EM / 1013341

Instruction Manual

For the **OEM ICP Heil Tempstar Emerson Blower Motor**

Model: **HQ1013341EM / 1013341 (K55HXJEW-9056)**

Brand: **Genteq**

PRODUCT OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of the OEM ICP Heil Tempstar Emerson Blower Motor, model HQ1013341EM / 1013341 (K55HXJEW-9056). This motor is a critical component for various HVAC systems, designed for reliable performance.

Key features include:

- 1/2 Horsepower (HP)
- 115 Volts (V) operating voltage
- 1050 Revolutions Per Minute (RPM)
- Thermally Protected design for enhanced safety
- Compatible with a 7.5 MFD, 370 VAC capacitor
- Frame 48Y, 5 5/8" diameter

Always refer to the specific wiring diagrams and safety instructions provided with your HVAC unit and this motor.

SAFETY INFORMATION

WARNING: To reduce the potential for electrical shock, always disconnect power before servicing the motor or any associated equipment. Failure to do so can result in serious injury or death. Follow all national and local codes for grounding and ensure unused lead wires are insulated individually.

- Ensure proper grounding according to all applicable electrical codes.
- Only qualified personnel should perform installation and maintenance.
- Verify that the power supply matches the motor's voltage requirements (115V).
- Do not operate the motor if it appears damaged.
- Keep hands and tools clear of moving parts during operation.

SETUP AND INSTALLATION

Proper installation is crucial for the longevity and safe operation of the blower motor. Refer to your HVAC system's specific service manual for detailed instructions on removing the old motor and installing the new one.

1. **Power Disconnection:** Before beginning any work, ensure the main power supply to the HVAC unit is completely

disconnected and locked out to prevent accidental energization.

2. **Access:** Open the access panels of your HVAC unit to reach the blower motor assembly.
3. **Wiring Disconnection:** Carefully disconnect the existing wiring from the old motor. Note the position and color of each wire for correct re-connection. This motor is a 4-speed motor.
4. **Capacitor:** This motor requires a 7.5 MFD, 370 VAC capacitor. Ensure the correct capacitor is installed and properly wired.
5. **Motor Removal:** Unmount the old motor from its housing or cradle. The shaft extends 4 inches out of the motor.
6. **New Motor Installation:** Mount the new Genteq blower motor (model K55HXJEW-9056 / HQ1013341EM) securely in place. Ensure it is properly aligned with the blower wheel.
7. **Wiring Connection:** Connect the new motor's wires according to the wiring diagram below and your HVAC unit's specifications. Insulate any unused lead wires individually.



Image: OEM ICP Heil Tempstar Emerson Blower Motor (Model K55HXJEW-9056 / HQ1013341EM). This image displays the motor with its various colored wires and a label detailing its specifications and a wiring diagram. The motor is dark gray with a silver top grille, and the shaft extends vertically from the center. The wiring harness includes brown, white, black, orange, blue, and red wires, each with a spade connector. The label clearly shows the model number, electrical ratings, and a schematic for connecting the motor to a capacitor and line voltage.

Wiring Diagram Reference

The motor features a clear wiring diagram on its label. Ensure connections are made precisely as indicated:

Motor Wiring Connections

Wire Color	Function
Brown	Capacitor Connection
White (COM)	Common Line Connection
Black (HI)	High Speed Connection
Orange (MED-HI)	Medium-High Speed Connection
Blue (MED-LOW)	Medium-Low Speed Connection
Red (LOW)	Low Speed Connection

The green wire with a ring terminal is for grounding the motor to the system chassis.

OPERATING INSTRUCTIONS

Once installed and wired correctly, the blower motor operates in conjunction with your HVAC system's control board. The motor is designed for continuous air over operation, meaning it relies on airflow for cooling.

- The motor will activate when the HVAC system calls for heating or cooling, or for continuous fan operation.
- Speed selection (High, Medium-High, Medium-Low, Low) is determined by the HVAC system's control board based on the connected wiring.
- Ensure that the blower wheel is clean and free of obstructions to allow for proper airflow and efficient motor operation.

MAINTENANCE

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

- **Cleaning:** Periodically inspect the motor and blower wheel for dust and debris accumulation. Clean with a soft brush or vacuum cleaner. Do not use liquids directly on the motor.
- **Inspection:** Check wiring connections for tightness and signs of wear or damage. Inspect the motor for any unusual noises or vibrations during operation.
- **Bearings:** This motor typically features sealed bearings that do not require lubrication. Refer to the manufacturer's specifications if unsure.
- **Capacitor Check:** If the motor is not starting or running correctly, the capacitor may need to be tested or replaced by a qualified technician.

TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a qualified HVAC technician.

Troubleshooting Guide

Problem	Possible Cause	Solution
Motor does not start	No power, faulty capacitor, wiring error, motor overload/thermal trip.	Check power supply and circuit breaker. Inspect capacitor for bulging or leaks; test with a multimeter. Verify all wiring connections. Allow motor to cool if thermally tripped.
Motor runs but no airflow	Blower wheel detached or obstructed.	Inspect blower wheel for secure attachment to the motor shaft. Clear any obstructions from the blower housing.
Motor makes unusual noise	Worn bearings, foreign object in blower, unbalanced blower wheel.	Inspect for foreign objects. Check blower wheel for balance and damage. If bearings are worn, motor replacement may be necessary.
Motor overheats and shuts off	Restricted airflow, incorrect voltage, motor overload.	Ensure air filters are clean and ducts are unobstructed. Verify correct voltage supply. Check for excessive load on the motor.

SPECIFICATIONS

Attribute	Value
Model Number	HQ1013341EM / 1013341 (K55HXJEW-9056)
Manufacturer	ICP / Heil / Tempstar (Emerson/Genteq)
Horsepower (HP)	1/2 HP (0.5 hp)
Voltage	115 Volts
Amperage (AMP)	8.0 A
Revolutions Per Minute (RPM)	1050 RPM (4-speed)
Frequency (HZ)	60 HZ
Phase (PH)	1 Phase
Frame Size	48Y (5 5/8" diameter)
Shaft Extension	4 inches
Capacitor Requirement	7.5 MFD, 370 VAC
Thermal Protection	Thermally Protected (PROT.CODE 7A010)
Insulation Class (INS CL)	B
Ambient Temperature (AIR OVER CONT)	40°C
UPC	751109532007

Attribute	Value
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WARRANTY INFORMATION

This product is manufactured by ICP / Heil / Tempstar, with the motor component often supplied by Emerson/Genteq. For specific warranty terms and conditions, please refer to the documentation provided with your original HVAC unit or contact the manufacturer directly. Extended protection plans may be available from your retailer at the time of purchase.

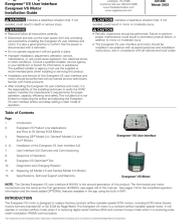
SUPPORT AND CONTACT

For technical assistance, parts inquiries, or further information regarding your blower motor, please contact the manufacturer or a certified HVAC technician.

- Manufacturer Website: www.usmotors.com (NIDEC Motor Corporation)
- For ICP/Heil/Tempstar specific support, refer to their official websites or customer service channels.

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Related Documents

	<p>Genteq Evergreen EM Indoor Blower Motor Installation Guide</p> <p>Comprehensive installation guide for Genteq Evergreen EM Indoor Blower Motors (models 6103E, 6203E, 6105E, 6205E, 6107E, 6207E, 6110E, 6210E), covering wiring, startup, diagnostics, mechanical installation, and specifications.</p>
	<p>Genteq Evergreen VS Motor and User Interface Installation Guide</p> <p>Comprehensive installation guide for the Genteq Evergreen VS motor and user interface, covering replacement of older ECM motors, wiring diagrams, setup, commissioning, diagnostics, and specifications for HVAC systems. Features advanced capabilities via the Evergreen VS Optimizer tool.</p>