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Evergreen 1178979

Tempstar 1178979 Genteq Evergreen 1/3 HP 230 Volt Blower Motor Instruction Manual

Model: 1178979 | Brand: Evergreen

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Tempstar 1178979 Genteq Evergreen 1/3 HP 230 Volt Replacement X-13 ECM Constant Torque Blower Motor. This motor is designed for use in HVAC systems to circulate air efficiently. Please read this manual thoroughly before attempting any installation or operation.



Image 1.1: The Tempstar 1178979 Genteq Evergreen 1/3 HP 230 Volt Replacement X-13 ECM Constant Torque Blower Motor. This image shows the motor's main body, shaft, and electrical connections.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power before servicing. Failure to do so can result in serious injury or death.

- Always ensure the main power supply to the HVAC unit is disconnected before installation, maintenance, or troubleshooting.
- Installation and servicing should only be performed by qualified and experienced HVAC technicians.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify that the motor's voltage and horsepower ratings match the system requirements before installation.
- Do not operate the motor if it is damaged or if any electrical connections are loose.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The package should contain:

- 1 x Tempstar 1178979 Genteq Evergreen 1/3 HP 230 Volt Blower Motor
- 1 x Instruction Manual (this document)

If any items are missing or damaged, contact your supplier immediately.

4. SETUP AND INSTALLATION

Important: Installation must be performed by a certified HVAC technician.

4.1 Pre-Installation Checks

1. Ensure the power supply to the HVAC system is completely disconnected at the circuit breaker.
2. Confirm the new motor's specifications (voltage, horsepower) match the existing system requirements.
3. Inspect the motor for any visible damage from shipping.

4.2 Removal of Old Motor

1. Carefully disconnect all wiring from the old motor, noting the connections for reference.
2. Remove any mounting bolts or clamps securing the old motor.
3. Gently slide the old motor out of its housing.

4.3 Installation of New Motor

1. Mount the new Tempstar 1178979 motor securely into the blower housing using the appropriate bolts and brackets. Ensure the motor is stable and aligned correctly with the blower wheel.
2. Connect the electrical wiring according to the HVAC system's wiring diagram and the motor's specific terminal markings. Pay close attention to line voltage, ground, and control wiring.
3. Verify all connections are tight and secure.
4. Ensure the blower wheel spins freely without obstruction after the motor is installed.

4.4 Post-Installation Checks

1. Double-check all wiring connections for correctness and security.
2. Confirm that the motor is properly grounded.
3. Restore power to the HVAC system.
4. Test the system to ensure the motor operates smoothly and quietly.

5. OPERATING INSTRUCTIONS

The Tempstar 1178979 Genteq Evergreen ECM blower motor is designed to operate as an integral part of your HVAC system. Its operation is controlled by the system's thermostat and control board.

- Once installed and powered, the motor will receive signals from the HVAC control board to start, stop, and adjust its speed based on heating, cooling, or fan-only demands.
- ECM motors are known for their energy efficiency and ability to maintain constant airflow across a range of static pressures.
- No direct user interaction with the motor itself is required for operation. All operational control is managed through the HVAC system's thermostat.

6. MAINTENANCE

The Tempstar 1178979 Genteq Evergreen ECM blower motor is designed for minimal maintenance. However, regular inspection of the overall HVAC system is recommended.

6.1 General Inspection

- Annually, or as recommended by your HVAC technician, inspect the motor and blower assembly for dust and debris accumulation.
- Ensure all electrical connections remain secure and free from corrosion.
- Check for any unusual noises or vibrations during operation, which could indicate a problem.

6.2 Cleaning

- **WARNING:** Disconnect power before cleaning.
- If dust or debris has accumulated on the motor or blower wheel, carefully clean it using a soft brush or vacuum cleaner. Avoid using water or liquid cleaners directly on the motor.
- Ensure the blower wheel is balanced and free of obstructions.

6.3 Lubrication

This Genteq Evergreen ECM motor features permanently lubricated bearings and does not require additional lubrication.

7. TROUBLESHOOTING

If you experience issues with your blower motor, consult the following troubleshooting guide. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power supply Faulty wiring connection Control board issue Motor failure	Check circuit breaker and power supply. Verify all wiring connections are secure. Consult HVAC technician to diagnose control board. Motor may require replacement.
Unusual noise or vibration	Loose mounting Blower wheel imbalance Debris in blower Bearing wear	Tighten mounting bolts. Inspect blower wheel for damage or debris. Clean blower housing. Contact technician for bearing inspection/motor replacement.
Motor overheats	Restricted airflow Overload Internal motor fault	Check air filters and ductwork for obstructions. Ensure motor is correctly sized for application. Motor may require replacement.

8. SPECIFICATIONS

Key technical specifications for the Tempstar 1178979 Genteq Evergreen Blower Motor:

- **Model:** 1178979
- **Brand:** Evergreen (Genteq)
- **Type:** X-13 ECM Constant Torque Blower Motor
- **Horsepower (HP):** 1/3 HP (0.33 HP)
- **Voltage:** 230 Volts
- **Material:** Copper (windings)
- **ASIN:** B00SROLPH8
- **First Available:** March 16, 2015

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided by your seller or the manufacturer, Genteq/Evergreen. Warranty terms typically cover defects in materials and workmanship for a specified period from the date of purchase.

If you require technical support or have questions regarding the installation or operation of your motor, please contact your authorized HVAC dealer or the manufacturer's customer service department. Provide your model number (1178979) and purchase details when seeking assistance.