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## Genteq 6010

# Genteq 6010 Evergreen IM Blower Motor Instruction Manual

Model: 6010

## INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Genteq 6010 Evergreen IM Blower Motor. Please read these instructions thoroughly before proceeding with installation or use. Retain this manual for future reference.

## PRODUCT OVERVIEW

The Genteq 6010 is a 1 horsepower Evergreen IM blower motor utilizing ECM (Electronically Commutated Motor) technology, designed for various HVAC applications. It features a 5-speed operation and is reversible.



Figure 1: Genteq 6010 Evergreen IM Blower Motor. The motor is green with a gray end cap and a shaft extending from one end, indicating its design for blower applications.

## Key Features:

- 1 horsepower (hp)
- 11.0/6.7 amps, 115/230V 50/60 Hz
- Reversible rotation
- Evergreen IM - Utilizing ECM Technology
- 5.6" Diameter - 48 Frame
- Service Factor = 1.0
- Shaft: 1/2" x 4.92"
- Class F Insulation
- 1100 RPM (Revolutions Per Minute)
- 5-Speed operation
- Overload Protection

## Important Compatibility Notes:

- **Not approved** to replace existing ECM Variable Speed or X13 motors.
- **Should not be used** on twinned systems.
- **Should not be used** on belt drive systems.
- **Will not replace** existing OEM ECM motors such as Carrier or Trane.
- **Not intended** to replace premium ECM constant airflow products (e.g., Eon 2.3, 3.0, 2.5).

## SETUP AND INSTALLATION

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Installation of the Genteq 6010 motor should be performed by a qualified HVAC technician. Improper installation can lead to equipment damage, personal injury, or void the warranty. Always disconnect power before beginning any installation or service work.

### General Installation Guidelines:

1. **Safety First:** Ensure all power to the HVAC unit is disconnected at the circuit breaker before starting.
2. **Verify Compatibility:** Double-check that this motor is suitable for your specific application, considering the compatibility notes in the Product Overview section.
3. **Mounting:** Flex mounting is not recommended for this motor. Ensure a secure and stable mounting method is used.
4. **Wiring:** Follow the wiring diagram provided with the motor or the HVAC unit. Ensure all electrical connections are secure and correctly insulated.
5. **Shaft Alignment:** Ensure the blower wheel is properly secured to the motor shaft and is correctly aligned to prevent vibration and premature wear.
6. **Initial Start-up:** Upon initial installation, the motor may wait a few moments before it starts to spin. This is normal behavior for ECM technology.

For detailed wiring and mounting instructions, refer to the specific documentation provided with your HVAC system and any supplemental instructions included with the motor packaging.

## OPERATING INSTRUCTIONS

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The Genteq 6010 motor operates as part of your HVAC system, controlled by the system's thermostat and control board.

It is designed for continuous duty within its specified parameters.

### Normal Operation:

- The motor will engage and disengage based on the demands of your HVAC system (heating, cooling, or continuous fan operation).
- The 5-speed capability allows the HVAC system to select the optimal airflow for different operating conditions.
- During initial startup or after a power cycle, the motor may have a brief delay before beginning rotation. This is a normal function of the ECM technology.

Ensure that the air filters in your HVAC system are clean to allow for optimal airflow and prevent strain on the motor.

## MAINTENANCE

The Genteq 6010 Evergreen IM motor is designed for minimal maintenance. However, regular inspection of the overall HVAC system is recommended to ensure optimal performance and longevity of all components, including the motor.

### Recommended Maintenance Practices:

- **Annual Inspection:** Have a qualified technician inspect the motor and blower assembly annually.
- **Cleanliness:** Ensure the motor and surrounding area are free from excessive dust, dirt, and debris, which can impede cooling and affect performance.
- **Blower Wheel:** Periodically check the blower wheel for dirt buildup. A dirty blower wheel can cause imbalance, vibration, and increased load on the motor. Clean as necessary.
- **Air Filters:** Regularly replace or clean your HVAC system's air filters according to the manufacturer's recommendations. Clogged filters restrict airflow and can overwork the motor.
- **Wiring:** Inspect wiring connections for any signs of wear, corrosion, or looseness.

Always disconnect power to the unit before performing any maintenance or inspection.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Motor does not start immediately after power-up.	Normal ECM motor behavior.	Allow a few moments for the motor to initiate. This is expected.
Motor does not run at all.	No power; tripped circuit breaker; faulty wiring; motor overload protection activated; control board issue.	Check circuit breaker. Verify power supply. Inspect wiring for loose connections. Allow motor to cool if overload protection tripped. Consult HVAC technician for control board diagnosis.
Motor runs but airflow is low.	Clogged air filter; dirty blower wheel; ductwork obstruction.	Replace or clean air filter. Clean blower wheel. Check ductwork for blockages.
Unusual noise or vibration.	Loose mounting; unbalanced blower wheel; worn bearings (less common for new ECM motors).	Ensure motor is securely mounted. Clean and balance blower wheel. If noise persists, contact a technician.

Always disconnect power before attempting any inspection or repair.

## SPECIFICATIONS

Attribute	Detail
Brand	Genteq
Model Number	6010
Horsepower (HP)	1 HP
Voltage	115/230 Volts
Amperage	11.0/6.7 Amps
Frequency	50/60 Hz
Speed	1100 RPM (5-Speed)
Diameter	5.6 inches
Frame Size	48 Frame
Shaft Dimensions	1/2" x 4.92"
Insulation Class	Class F
Service Factor	1.0
Material	Copper
Item Weight	20.1 Pounds
Product Dimensions	16.5 x 8.25 x 8.25 inches
UPC	663001094623

## WARRANTY INFORMATION

The Genteq 6010 Evergreen IM Blower Motor comes with a **One Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation provided with your product or contact Genteq customer support.

## SUPPORT AND CONTACT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Genteq customer support or your authorized Genteq dealer. Ensure you have your motor model number (6010) and proof of purchase available when contacting support.

*Please note: Specific contact details are not provided in this manual. Refer to the product packaging or the official Genteq website for the most current support information.*



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