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> [ClimaTek ECM Furnace Blower Motor & Module Combo 1 HP \(28M30\) Instruction Manual](#)

ClimaTek 28M30

ClimaTek ECM Furnace Blower Motor & Module Combo 1 HP (28M30) Instruction Manual

Model: 28M30 | Brand: ClimaTek

INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your ClimaTek ECM Furnace Blower Motor & Module Combo, 1 HP, model 28M30. This unit is designed as a direct replacement for part #28M30 and is compatible with various furnace brands including Lennox, Ducane, and Armstrong. Please read this manual thoroughly before proceeding with any installation or operation.



Figure 1: ClimaTek ECM Furnace Blower Motor and Module Combo. This image displays the main components: the cylindrical blower motor with a shaft extending upwards, and a separate black control module with wiring harnesses attached. The motor features a label with product information, and the wiring harnesses are neatly bundled.

SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- Disconnect all power to the furnace before installing or servicing the blower motor.
- Installation should be performed by a qualified HVAC technician.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the motor if any components are damaged.

SETUP AND INSTALLATION

1. **Power Disconnection:** Turn off the main power supply to the furnace at the circuit breaker. Verify power is off using a voltage tester.
2. **Access Old Motor:** Open the furnace access panel and locate the existing blower motor and module.
3. **Disconnect Wiring:** Carefully disconnect all electrical wiring from the old motor and module. Note the position of each wire for correct reinstallation.
4. **Remove Old Motor:** Unmount and remove the old blower motor and module from the furnace housing.
5. **Install New Motor:** Mount the new ClimaTek ECM blower motor into the furnace housing, ensuring it is securely fastened.
6. **Install New Module:** Mount the new control module in an appropriate location, ensuring it is protected and accessible.
7. **Connect Wiring:** Connect the wiring harnesses from the new motor to the new module, and then connect the module to the furnace's electrical system. Refer to the furnace manufacturer's wiring diagram for specific connections. This ClimaTek unit is a 16-pin configuration.
8. **Secure Components:** Ensure all components are securely mounted and all wiring is properly routed and secured to prevent interference or damage.
9. **Close Access Panel:** Close and secure the furnace access panel.

OPERATING INSTRUCTIONS

After successful installation, follow these steps to operate the furnace with the new blower motor:

1. **Restore Power:** Turn on the main power supply to the furnace at the circuit breaker.
2. **Thermostat Settings:** Set your thermostat to a fan-on or heat/cool mode to initiate blower operation.
3. **Observe Operation:** Listen for smooth operation of the blower motor. Check for proper airflow from the vents.
4. **Initial Cycle:** Allow the furnace to complete a full heating or cooling cycle to ensure all components are functioning correctly.

The ECM motor is designed for energy efficiency and variable speed operation, which is typically controlled by the furnace's main board based on demand.

MAINTENANCE

The ClimaTek ECM blower motor is designed for durability and requires minimal maintenance. However, regular furnace maintenance is crucial for optimal performance and longevity.

- **Annual Inspection:** Have a qualified HVAC technician inspect your furnace system annually, including the blower motor and module.
- **Filter Replacement:** Regularly replace or clean your furnace air filter as recommended by your furnace manufacturer. A dirty filter can restrict airflow and put strain on the blower motor.
- **Clean Blower Wheel:** Periodically inspect the blower wheel for dust and debris accumulation. If necessary, clean the blower wheel to maintain efficient airflow. Ensure power is disconnected before cleaning.
- **Wiring Check:** During annual inspections, ensure all electrical connections remain secure and free from corrosion.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Blower motor does not start.	No power to furnace. Faulty thermostat setting. Loose wiring connection. Module failure.	Check circuit breaker. Verify thermostat is set to fan ON or heat/cool. Inspect and secure all wiring connections (power off). Consult HVAC technician for module diagnosis.
Blower motor runs continuously.	Thermostat fan setting is "ON". Stuck relay on control board. Module malfunction.	Set thermostat fan to "AUTO". Consult HVAC technician.
Weak airflow.	Dirty air filter. Obstructed ducts. Dirty blower wheel.	Replace or clean air filter. Check ducts for blockages. Clean blower wheel (power off).
Unusual noises from blower.	Loose mounting. Debris in blower wheel. Motor bearing issue.	Ensure motor is securely mounted. Inspect and clean blower wheel (power off). Consult HVAC technician for motor inspection.

SPECIFICATIONS

Feature	Detail
Model Number	28M30
Brand	ClimaTek
Horsepower (HP)	1 HP
Motor Type	ECM (Electronically Commutated Motor)
Pin Configuration	16 PIN
Compatibility	Direct replacement for Part #28M30. Compatible with Lennox, Ducane, Armstrong furnaces.
Product Dimensions	7 x 15 x 7 inches

Feature	Detail
Item Weight	18 Pounds (288 Ounces)
Manufacturer	ClimaTek

WARRANTY AND SUPPORT

For warranty information or technical support regarding your ClimaTek ECM Furnace Blower Motor & Module Combo, please refer to the documentation provided with your purchase or contact ClimaTek customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the [ClimaTek Store on Amazon](#).



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This manual is for informational purposes only. ClimaTek is not responsible for any damages or injuries resulting from improper installation or use of this product.