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› ClimaTek Y7S623C269L 1/5 HP Condenser Fan Motor Instruction Manual

## ClimaTek Y7S623C269L

# ClimaTek Y7S623C269L 1/5 HP Condenser Fan Motor Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the ClimaTek Y7S623C269L 1/5 HP Condenser Fan Motor. This motor is an OEM upgraded replacement part designed to meet specific performance requirements for HVAC systems. Please read this manual thoroughly before proceeding with any installation or service.

## 2. SAFETY INFORMATION

**WARNING: Electrical Shock Hazard. Installation and service should only be performed by qualified HVAC technicians. Failure to follow these instructions could result in serious injury or death.**

- Always disconnect power to the unit before installing, servicing, or removing the motor.
- Ensure proper grounding of the motor and associated electrical components.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify all wiring connections are secure and conform to local electrical codes and the motor's wiring diagram.
- Do not operate the motor if it is damaged or if any components are missing.

## 3. PRODUCT OVERVIEW

The ClimaTek Y7S623C269L is a 1/5 HP condenser fan motor, designed as a direct replacement for specific Zhongshan Broad-Ocean models. It features a durable construction suitable for outdoor HVAC condenser units.



**Figure 1:** ClimaTek Y7S623C269L 1/5 HP Condenser Fan Motor. This image displays a black cylindrical motor with a silver top plate and a central shaft extending upwards. Electrical wires are visible exiting the side of the motor. A product label on the side provides model number Y7S623C269L and electrical specifications.

Key features include:

- OEM Upgraded 1/5 HP Condenser Fan Motor.
- Directly replaces Part # Y7S623C269L.
- Thermally protected for enhanced safety and longevity.
- Designed for compatibility with Zhongshan Broad-Ocean units.

## 4. SETUP AND INSTALLATION

Professional installation by a certified HVAC technician is strongly recommended for this component.

1. **Power Disconnection:** Ensure all power to the HVAC unit is completely disconnected at the circuit breaker before beginning installation.
2. **Access:** Safely access the condenser fan motor compartment, typically by removing the top grille or access panel of the outdoor unit.
3. **Old Motor Removal:** Disconnect the wiring from the old motor, noting the connections. Remove any mounting bolts or clamps securing the old motor. Carefully remove the fan blade from the old motor shaft.
4. **Fan Blade Transfer:** Securely attach the existing fan blade to the shaft of the new ClimaTek Y7S623C269L motor. Ensure the blade is balanced and properly seated.
5. **New Motor Installation:** Mount the new motor in the same position as the old one, securing it with appropriate bolts or clamps.
6. **Wiring:** Connect the motor wiring according to the wiring diagram provided on the motor label and the original unit's specifications. Pay close attention to capacitor connections if applicable.
7. **Rotation Direction:** Before fully reassembling the unit, temporarily restore power and briefly observe the fan blade's rotation direction. If the rotation is incorrect, consult the wiring diagram or a qualified technician for

adjustment. Incorrect rotation can lead to inefficient cooling and system damage.

8. **Reassembly:** Once proper operation and rotation are confirmed, disconnect power again and reassemble all panels and grilles.
9. **Final Check:** Restore power and verify the HVAC system operates correctly, including proper fan operation and airflow.

## 5. OPERATING INSTRUCTIONS

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Once properly installed, the ClimaTek Y7S623C269L condenser fan motor operates automatically as part of your HVAC system. It is designed to run when the compressor is active, drawing air across the condenser coil to dissipate heat.

- Ensure the area around the outdoor unit is clear of obstructions to allow for proper airflow.
- Listen for any unusual noises during operation, which may indicate a problem.

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficiency of your condenser fan motor.

- **Annual Inspection:** Have a qualified technician inspect the motor and fan blade annually for wear, damage, or debris accumulation.
- **Cleanliness:** Keep the condenser unit and fan motor free from dirt, leaves, and other debris that can impede airflow or cause the motor to overheat.
- **Vibration Check:** Periodically check for excessive vibration, which could indicate a loose fan blade or motor mounting.
- **Lubrication:** This motor is typically sealed and does not require user lubrication. Refer to the motor label or manufacturer specifications if unsure.

## 7. TROUBLESHOOTING

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If you experience issues with your condenser fan motor, consider the following common troubleshooting steps. Always disconnect power before inspecting the unit.

- **Motor Not Starting:**
  - Check if power is supplied to the unit.
  - Verify all wiring connections are secure and correct according to the wiring diagram.
  - Inspect the capacitor (if external) for signs of damage or failure. A faulty capacitor can prevent the motor from starting.
  - Check for any obstructions preventing the fan blade from turning.
- **Unusual Noises (Grinding, Squealing):**
  - Indicates potential bearing wear or debris interfering with the fan blade. Disconnect power and inspect.
  - Ensure the fan blade is securely attached to the motor shaft and is not hitting any part of the unit.
- **Incorrect Rotation Direction:**
  - This can occur if wiring is incorrect. Refer to the motor's wiring diagram for proper connections. Incorrect rotation can significantly reduce cooling efficiency.
- **Motor Overheating/Shutting Off:**

- Ensure adequate airflow around the condenser unit. Clear any debris.
- The motor has thermal protection, which will shut it off if it overheats. Allow it to cool and check for causes of overheating.

If these steps do not resolve the issue, contact a qualified HVAC technician for further diagnosis and repair.

## 8. SPECIFICATIONS

| Specification      | Detail                   |
|--------------------|--------------------------|
| Model Number       | Y7S623C269L              |
| Horsepower (HP)    | 1/5 HP                   |
| Voltage            | 208-230V                 |
| RPM                | 1100 RPM                 |
| Capacitance        | 5µF / 370VAC             |
| Material           | Copper                   |
| Product Dimensions | 7 x 14 x 7 inches        |
| Item Weight        | 14 Pounds (224 Ounces)   |
| Manufacturer       | Zhongshan Broad-Ocean    |
| Thermal Protection | Yes, Thermally Protected |

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the terms provided by your seller or the manufacturer at the time of purchase. Keep your proof of purchase for any warranty claims.

If you require technical assistance or have questions regarding the ClimaTek Y7S623C269L motor, please contact your point of purchase or a qualified HVAC professional.

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