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- › [Genteq](#) /
- › [Genteq GE Oval Dual Run Capacitor Upgrade 97F9685-35 + 5 uf MFD 370 Volt VAC Instruction Manual](#)

Genteq C3355L_CAPCOM_ver7

Genteq GE Oval Dual Run Capacitor Instruction Manual

Model: C3355L_CAPCOM_ver7 (97F9685-35 + 5 uf MFD 370 Volt VAC)

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Genteq GE Oval Dual Run Capacitor, model C3355L_CAPCOM_ver7. This component is designed for use in HVAC systems, specifically for starting and running electric motors in applications such as air conditioners and heat pumps. The capacitor is an upgraded replacement for various GE Industrial Capacitors, offering reliable performance with a proven EIA-456 Compliant 60,000 Hour Reliability rating.



Image 1.1: The Genteq GE Oval Dual Run Capacitor shown with its product packaging.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and servicing should only be performed by qualified personnel. Disconnect all power before installing or servicing this component.

- Always discharge the capacitor before handling. Capacitors can store a dangerous electrical charge even after power is disconnected.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure the replacement capacitor matches the original unit's specifications (microfarad rating, voltage, and physical dimensions).
- Verify correct wiring connections to prevent damage to equipment or personal injury.

3. PRODUCT FEATURES

- **EIA-456 Compliant Reliability:** Engineered for 60,000 hours of reliable operation.
- **High-Grade Construction:** Utilizes metallized polypropylene film (5 to 12 microns thick) for durability and performance.
- **Certifications:** UL Approved and ROHS Compliant, ensuring adherence to safety and environmental standards.
- **Origin:** Not Made In China.
- **Compatibility:** Designed as a compatible replacement for Genteq GE Industrial Capacitors.



Image 3.1: A detailed view of the Genteq GE Oval Dual Run Capacitor, highlighting its label and terminals.

4. SETUP AND INSTALLATION

This capacitor is a critical electrical component. Professional installation is strongly recommended.

1. **Power Disconnection:** Turn off all power to the HVAC unit at the circuit breaker or fuse box. Verify power is off using a voltage meter.
2. **Capacitor Discharge:** Carefully discharge the old capacitor using a properly insulated screwdriver or a resistor. Touch the insulated screwdriver across the terminals to ensure no residual charge remains.
3. **Wiring Identification:** Note the wiring connections to the old capacitor. Dual run capacitors typically have three terminals: 'HERM' (compressor), 'FAN' (fan motor), and 'C' (common). Take a photograph for reference if necessary.
4. **Removal:** Disconnect the wires from the old capacitor and remove it from its mounting bracket.
5. **Installation of New Capacitor:** Place the new Genteq capacitor into the mounting bracket. Connect the wires to the corresponding terminals:
 - Common (C)
 - Herm (Hermetic Compressor)
 - Fan (Fan Motor)
6. **Secure Connections:** Ensure all connections are tight and secure.
7. **Power Restoration:** Restore power to the HVAC unit and test its operation.



Image 4.1: Top view of the capacitor terminals, clearly labeled 'FAN', 'C' (Common), and 'HERM' (Hermetic Compressor).

5. OPERATION

A dual run capacitor, such as this Genteq model, serves two primary functions in an HVAC system:

- **Start Function:** Provides a temporary boost of power to help the compressor and fan motors overcome initial inertia and begin rotating.
- **Run Function:** Maintains a continuous phase shift in the motor windings, ensuring efficient and continuous operation of both the compressor and the fan motor.

The capacitor operates continuously when the HVAC unit is running, contributing to the overall efficiency and longevity of the motors.

6. MAINTENANCE

Capacitors are generally sealed units and require minimal direct maintenance. However, regular inspection of the HVAC system can help identify potential issues early:

- **Visual Inspection:** Periodically check the capacitor for signs of swelling, leaks, or corrosion, which indicate failure.
- **Cleanliness:** Ensure the area around the capacitor is free from dust and debris to prevent overheating.
- **Professional Check-ups:** Include capacitor inspection as part of routine professional HVAC system maintenance.

7. TROUBLESHOOTING

A failing capacitor can lead to various HVAC system malfunctions. Common symptoms include:

- **Motor Not Starting:** If the compressor or fan motor hums but does not start, the run capacitor may be weak or failed.
- **Reduced Efficiency:** A weak capacitor can cause motors to run inefficiently, leading to higher energy consumption.
- **Overheating:** Motors struggling due to a faulty capacitor can overheat, potentially leading to further damage.
- **Physical Damage:** A swollen or leaking capacitor is a clear sign of failure and requires immediate replacement.

If you suspect a capacitor failure, it is recommended to have a qualified technician diagnose and replace the component.

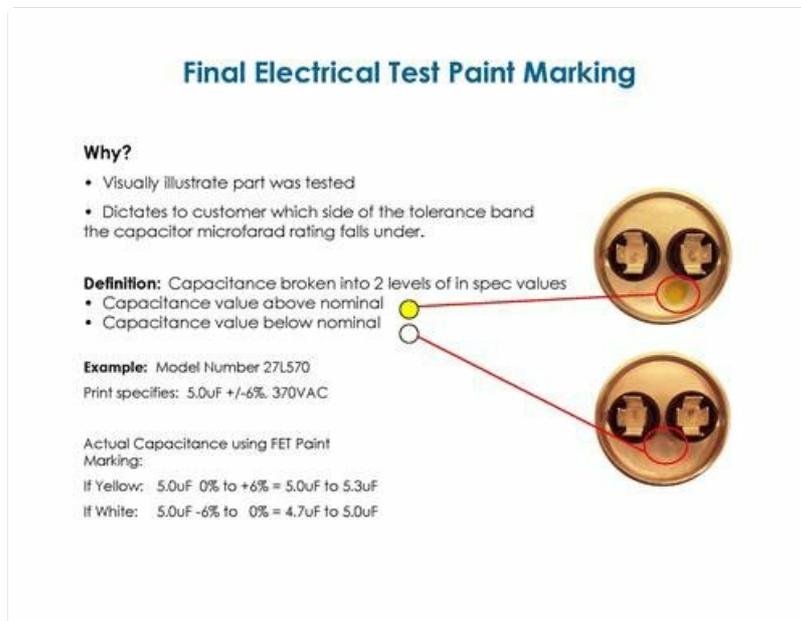


Image 7.1: Explanation of the Final Electrical Test Paint Marking, indicating capacitance value relative to nominal specifications.

8. SPECIFICATIONS

Specification	Detail
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Specification	Detail
Brand	Genteq
Model Number	C3355L_CAPCOM_ver7
Capacitance	35 + 5 uf MFD
Operating Voltage	370 Volts AC
Shape	Oval
Material	Polypropylene
Item Weight	14 ounces
Manufacturer	GE Genteq
Date First Available	August 28, 2013



Image 8.1: Dimensional drawing of the Genteq GE Oval Dual Run Capacitor, showing height and width measurements.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Genteq GE Oval Dual Run Capacitor, please refer to the documentation provided at the point of purchase or contact your authorized Genteq distributor. General product support and technical assistance can be obtained through authorized service centers or by consulting a qualified HVAC technician.



Image 9.1: The Genteq CapCom brand logo, indicating product authenticity.