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## Genteq C430R

# Genteq 30 uF MFD 440 VAC Round Replacement Capacitor User Manual

Model: C430R / 97F9635

## 1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Genteq 30 microfarad (uF) 440 VAC Round Replacement Capacitor, model C430R / 97F9635. This capacitor is designed for various electrical applications requiring a 30 uF capacitance at 440 Volts AC. It is a direct replacement component, ensuring compatibility with systems designed for similar specifications.



Image 1.1: The Genteq 30 uF 440 VAC Round Capacitor shown with its product packaging. This image illustrates the capacitor's physical appearance and branding.

## 2. SAFETY INFORMATION

**WARNING:** Electrical components can store dangerous charges even when power is disconnected. Improper handling can result in severe injury or death. Installation should only be performed by qualified personnel.

- Always disconnect power to the equipment before attempting any installation or maintenance.
- Discharge any existing capacitors in the system using a properly insulated tool before handling.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure the replacement capacitor's specifications (uF and VAC) match or exceed the original component's requirements.
- Do not touch the terminals of the capacitor with bare hands, especially after power has been applied.

### 3. INSTALLATION (SETUP)

This capacitor is designed as a direct replacement. Follow these general steps for installation:

1. **Power Disconnection:** Turn off all power to the equipment where the capacitor will be installed. Verify power is off using a voltage meter.
2. **Discharge Old Capacitor:** Carefully discharge the old capacitor using a resistor or an insulated screwdriver with an insulated handle across its terminals. Listen for a pop or spark, indicating discharge.
3. **Remove Old Capacitor:** Disconnect the wires from the old capacitor. Note the wiring configuration if multiple terminals are present.
4. **Install New Capacitor:** Connect the wires to the new Genteq capacitor, ensuring correct terminal connections. This capacitor features two terminals.
5. **Secure Capacitor:** Ensure the capacitor is securely mounted in its designated location.
6. **Restore Power:** Once installation is complete and all connections are secure, restore power to the equipment.



Image 3.1: The Genteq 30 uF 440 VAC Round Capacitor with its physical dimensions indicated. The capacitor measures approximately 3 7/8 inches in height and 1 7/8 inches in diameter.

### 4. OPERATING PRINCIPLES

This capacitor functions as a motor run capacitor, providing a phase shift to the auxiliary winding of an AC motor, such as those found in HVAC systems. It helps the motor start and run efficiently by maintaining a consistent

electrical field. Once installed, the capacitor operates continuously as part of the electrical circuit, requiring no user interaction.

## 5. MAINTENANCE

The Genteq 30 uF 440 VAC Round Replacement Capacitor is a sealed, maintenance-free component. No routine maintenance is required. Periodically inspect the capacitor for any signs of physical damage, bulging, or leakage. If any damage is observed, the capacitor should be replaced immediately by a qualified technician following the safety guidelines outlined in Section 2.

## 6. TROUBLESHOOTING

If the equipment connected to the capacitor is not functioning correctly, consider the following:

- **Motor Not Starting:** A common symptom of a failing run capacitor is a motor that hums but does not start, or starts slowly.
- **Reduced Efficiency:** The motor may run but with reduced power or increased energy consumption.
- **Physical Damage:** Visually inspect the capacitor for signs of swelling, leaks, or burn marks.
- **Capacitance Measurement:** A qualified technician can test the capacitor's actual capacitance using a multimeter with a capacitance function. The measured value should be close to 30 uF (within specified tolerance).

If troubleshooting indicates a faulty capacitor, replace it with a new Genteq capacitor of the correct specifications.

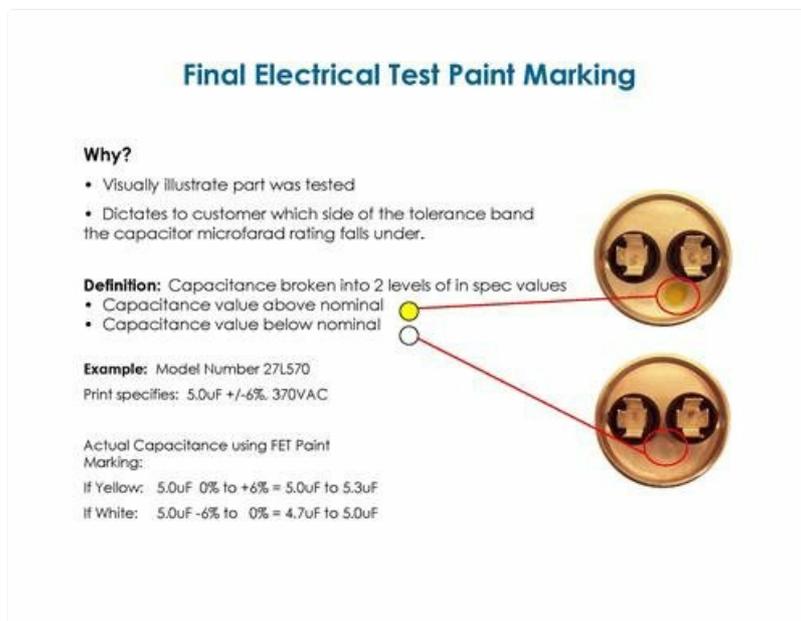


Image 6.1: This diagram illustrates the final electrical test paint marking on capacitors. A yellow mark indicates the capacitance value is above nominal, while a white mark indicates it is below nominal, within the specified tolerance range.

## 7. SPECIFICATIONS

Specification	Value
Capacitance	30 uF (Microfarads)
Operating Voltage	440 VAC (Volts Alternating Current)
Maximum Voltage	440 Volts

Specification	Value
Shape	Round
Material	Polypropylene
Manufacturer	Genteq
Model Number	C430R / 97F9635

## 8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Genteq capacitor, please refer to the documentation provided with your original equipment or contact Genteq directly through their official website. Keep your purchase receipt as proof of purchase.



Image 8.1: A stamp indicating "Genuine Genteq Capacitor." This signifies the authenticity of the product.

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## Related Documents - C430R

	<p><a href="#">Genteq Evergreen VS Motor and User Interface Installation Guide</a></p> <p>Comprehensive installation guide for the Genteq Evergreen VS motor and user interface, covering replacement of older ECM motors, wiring diagrams, setup, commissioning, diagnostics, and specifications for HVAC systems. Features advanced capabilities via the Evergreen VS Optimizer tool.</p>
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[Genteq Evergreen EM Indoor Blower Motor Installation Guide](#)

Comprehensive installation guide for Genteq Evergreen EM Indoor Blower Motors (models 6103E, 6203E, 6105E, 6205E, 6107E, 6207E, 6110E, 6210E), covering wiring, startup, diagnostics, mechanical installation, and specifications.



[Genteq Evergreen VS Motor and User Interface Installation Guide](#)

Comprehensive installation guide for the Genteq Evergreen VS motor and user interface, covering replacement of older ECM motors, wiring diagrams, setup, commissioning, diagnostics, and specifications for HVAC systems. Features advanced capabilities via the Evergreen VS Optimizer tool.



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[RTC FSC-1 Digital EC Motor Control Manual](#)

This manual provides detailed information on the RTC FSC-1 Digital EC Motor Control, including its features, operation, programming, installation, and wiring diagrams for various motor types.



[Nailor EPIC Fan Card Volume Controller Operation Manual with Genteq EON ECM Motor](#)

Comprehensive operation manual for the Nailor EPIC Fan Card Volume Controller, featuring Genteq EON ECM Motor. Includes setup, troubleshooting, and indicator explanations for models H1-2272, H1-2272A1, and H1-2273A1.