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› User Manual for 35/5 MFD 440 Volt Dual Round Run Capacitor

UpStart Components CAP-97F9848-DL424

User Manual

Product: 35/5 MFD 440 Volt Dual Round Run Capacitor

Model: CAP-97F9848-DL424

Brand: UpStart Components

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the UpStart Components 35/5 MFD 440 Volt Dual Round Run Capacitor, model CAP-97F9848-DL424. This component is designed as a replacement part for various HVAC systems, including Rheem/Ruud RAMA-030JAS units, ensuring optimal motor performance.

2. SAFETY INFORMATION

WARNING: Working on the motor with power connected may result in electrical shock or other conditions that may cause personal injury, death or property damage. Always disconnect power before servicing.

- Always disconnect power to the appliance before attempting any installation, maintenance, or troubleshooting.
- Capacitors can store an electrical charge even after power is disconnected. Always discharge the capacitor safely before handling. Consult a qualified technician if unsure.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure the replacement capacitor's voltage rating is equal to or higher than the original.
- Ensure the capacitance (MFD/uF) matches the original capacitor.
- If you are not confident in performing the replacement, seek assistance from a certified HVAC technician.

3. PRODUCT OVERVIEW

The UpStart Components CAP-97F9848-DL424 is a 35/5 MFD 440 Volt dual round run capacitor. It is a critical electrical component used in various applications, primarily HVAC systems, to help motors start and run efficiently. This dual-value capacitor provides two capacitance ratings (35 microfarads and 5 microfarads) within a single unit, typically for the compressor and fan motor in an air conditioning or heat pump unit.



Figure 1: UpStart Components Dual Round Run Capacitor (CAP-97F9848) with its retail packaging.





Figure 2: Front view of the capacitor, showing brand and specifications label.

Key Characteristics:

- **Dual Capacitance:** Provides two distinct capacitance values (35 MFD and 5 MFD) for multi-motor applications.
- **Voltage Rating:** Rated for 440 Volts, suitable for a wide range of electrical systems.
- **Round Design:** Standard round shape for compatibility with many existing installations.
- **Application:** Commonly used in air conditioners, heat pumps, and other HVAC equipment.

4. SETUP AND INSTALLATION

This section outlines the general procedure for replacing a dual run capacitor. Always refer to the specific service manual for your appliance for detailed instructions.

1. **Disconnect Power:** Locate the circuit breaker or disconnect switch for the HVAC unit and turn off all power to the unit. Verify power is off using a voltage tester.
2. **Access Capacitor:** Open the service panel of your HVAC unit to access the capacitor.
3. **Discharge Capacitor:** **CRITICAL SAFETY STEP:** Using a screwdriver with an insulated handle, short the terminals of the old capacitor to discharge any stored electrical energy. Be cautious, as a spark may occur.
4. **Note Wiring:** Carefully observe and note the wiring connections to the old capacitor. Take a photo or draw a diagram if necessary. Dual run capacitors typically have three terminals: 'HERM' (for compressor), 'FAN' (for fan motor), and 'COMMON'.
5. **Remove Old Capacitor:** Disconnect the wires from the old capacitor and remove it from its mounting bracket.
6. **Verify New Capacitor:** Ensure the new UpStart Components capacitor matches the required specifications (35/5 MFD, 440 Volt) for your unit. The voltage should be higher or equal, and the capacitance (uF, MFD) should match.
7. **Install New Capacitor:** Mount the new capacitor securely in the bracket.
8. **Connect Wiring:** Reconnect the wires to the corresponding terminals on the new capacitor. Ensure connections are secure.



Figure 3: Angled view of the capacitor, highlighting the three terminal connections.



Figure 4: Top-down view of the capacitor terminals, typically labeled HERM, FAN, and COMMON.

9. **Close Panel:** Securely close the service panel.
10. **Restore Power:** Turn the power back on at the circuit breaker or disconnect switch.
11. **Test Unit:** Test the HVAC unit to ensure proper operation.

5. OPERATION

The 35/5 MFD 440 Volt Dual Round Run Capacitor functions continuously while the motor it serves is operating. It provides a phase shift to the motor windings, creating a rotating magnetic field necessary for efficient motor startup and continuous running. The capacitor helps maintain the motor's efficiency and reduces energy consumption by ensuring the motor runs at its optimal performance level.

6. MAINTENANCE

Capacitors are generally sealed units and do not require routine maintenance. However, periodic visual inspection can help identify potential issues before they lead to complete failure.

- **Visual Inspection:** Regularly check the capacitor for signs of bulging, swelling, or leaking fluid. These are clear

indicators of a failing capacitor.

- **Continuity Check:** If the motor is not starting or running correctly, a qualified technician can perform a continuity test across the capacitor terminals to check for internal failure.
- **Replacement:** Replace the capacitor immediately if it shows signs of bulging, leaking, or if diagnostic tests indicate no continuity across its terminals.

7. TROUBLESHOOTING

If your HVAC unit or motor is experiencing issues, a failing capacitor could be a cause.

Symptom	Possible Cause (Capacitor Related)	Solution
Motor hums but does not start (e.g., outdoor fan, compressor).	Failed start or run winding of the capacitor.	Replace the capacitor.
Motor starts slowly or runs inefficiently.	Weak or degraded capacitor.	Replace the capacitor.
Visible bulging or leaking from the capacitor.	Internal failure of the capacitor.	Replace the capacitor immediately.
Unit trips circuit breaker frequently.	Short-circuited capacitor (less common, but possible).	Replace the capacitor.

Note: Always ensure power is disconnected and the capacitor is discharged before inspecting or replacing.

8. SPECIFICATIONS

The following table lists the technical specifications for the UpStart Components 35/5 MFD 440 Volt Dual Round Run Capacitor, model CAP-97F9848-DL424.

Specification	Value
Brand	UpStart Components
Model Number	CAP-97F9848-DL424
Capacitance	35/5 Microfarad (MFD)
Maximum Voltage	440 Volts AC
Operating Voltage	440 Volts
Product Dimensions	2 x 2 x 4.68 inches
Material	Plastic (housing/seal)
Shape	Round
Manufacturer	UpStart Components
Date First Available	October 26, 2016

9. WARRANTY AND SUPPORT

For warranty information and technical support regarding your UpStart Components 35/5 MFD 440 Volt Dual Round Run

Capacitor, please contact the seller or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: UpStart Components
Website: UpStartComponents.com (as indicated on product label)

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