UpStart Components CAP-97F9848

UpStart Components 35/5 MFD 440 Volt Dual Round Run Capacitor (CAP-97F9848) Instruction Manual

Model: CAP-97F9848

1. Introduction

This manual provides essential information for the safe and effective use of your UpStart Components 35/5 MFD 440 Volt Dual Round Run Capacitor, model CAP-97F9848. This capacitor is designed as a replacement for various applications, including York H1DA030S06A systems. Please read all instructions carefully before installation and operation.

2. Important Safety Information

WARNING: Working on electrical systems can result in electrical shock, serious injury, or death. Always disconnect power before servicing. Installation should only be performed by qualified personnel.

- Always disconnect all power to the appliance before attempting to install or replace the capacitor.
- Discharge the old capacitor completely before handling. Capacitors can store a dangerous electrical charge even after power is disconnected.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure the replacement capacitor's voltage rating is equal to or higher than the original.
- Ensure the capacitance (MFD) matches the original capacitor.
- Refer to the warning label on the product packaging for additional safety guidelines.

3. Product Overview and Features

The UpStart Components CAP-97F9848 is a dual-run capacitor designed to assist in the starting and running of electric motors in various applications, such as HVAC systems. It features two capacitance values (35 MFD and 5 MFD) within a single unit, typically for a compressor and a fan motor.

Key Features:

- Replacement Dual Round Run Capacitor for York H1DA030S06A.
- 35 / 5 MFD 440 Volt rating.
- Designed for optimum performance in a wide variety of applications.
- Constructed with durable copper material.

4. Product Specifications

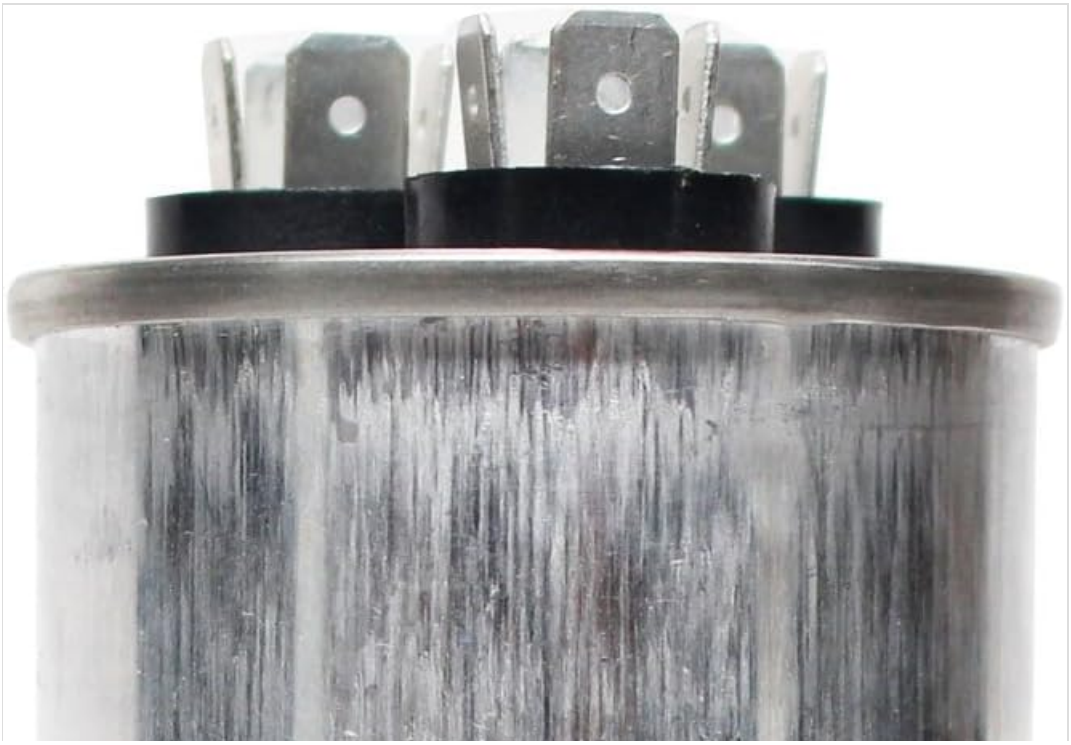
Specification	Value
Brand	UpStart Components
Model Number	CAP-97F9848
Capacitance	35 / 5 Microfarad (MFD)
Operating Voltage	440 Volts AC
Frequency	50/60 Hz
Material	Copper
Shape	Round

5. Visual Guide

The following images provide a visual reference for the UpStart Components Dual Round Run Capacitor.
Image 1: Product and Packaging with Warning Label

This image displays the UpStart Components CAP-97F9848 dual round run capacitor alongside its retail packaging. The packaging clearly shows the product specifications and an important safety warning regarding electrical work.

Image 2: Front View of Capacitor with Label



A close-up view of the capacitor, highlighting the product label. The label details the model number (CAP-97F9848), capacitance (35/5 MFD), voltage (440VAC), and frequency (50/60HZ).

Image 3: Top View of Capacitor Terminals

This image shows the top of the capacitor, revealing the multiple terminals used for electrical connections. Dual run capacitors typically have three terminals: Herm (compressor), Fan (fan motor), and Common.

6. Installation Guide

Before You Begin:

- Ensure you have the correct replacement capacitor with matching voltage and capacitance (MFD) ratings.
- Gather necessary tools: insulated screwdriver, needle-nose pliers, multimeter with capacitance testing function.
- Always turn off the power to the unit at the circuit breaker before starting any work.

Installation Steps (Professional Installation Recommended):

1. **Disconnect Power:** Turn off the main power supply to the HVAC unit or appliance at the circuit breaker. Verify power is off using a voltage tester.
2. **Locate Capacitor:** Open the access panel of the unit and locate the existing capacitor.
3. **Discharge Old Capacitor:** Using an insulated screwdriver with an insulated handle, carefully short the terminals of the old capacitor to discharge any stored electrical energy. Be cautious, as a spark may occur.
4. **Note Wiring:** Take a clear photograph or draw a diagram of the existing wiring connections to the capacitor terminals (Common, Herm, Fan).
5. **Remove Old Capacitor:** Disconnect the wires from the old capacitor and remove it from its mounting

bracket.

6. **Install New Capacitor:** Place the new UpStart Components capacitor into the mounting bracket.
7. **Connect Wiring:** Reconnect the wires to the corresponding terminals on the new capacitor, following your diagram or photograph. Ensure connections are secure.
8. **Secure Access Panel:** Close and secure the access panel.
9. **Restore Power:** Turn the power back on at the circuit breaker.
10. **Test Unit:** Test the appliance to ensure proper operation.

If you are unsure about any step, it is highly recommended to consult a qualified HVAC technician or electrician.

7. Operation

Once correctly installed, the dual run capacitor operates automatically as part of the motor's electrical circuit. It provides the necessary phase shift and starting torque for the compressor and fan motors, allowing them to start and run efficiently. No user intervention is required for its operation.

8. Maintenance

Capacitors are generally maintenance-free components. However, periodic visual inspection during routine appliance servicing can help identify potential issues before they lead to complete failure.

Signs of Capacitor Failure:

- **Bulging or Swelling:** The top or sides of the capacitor appear swollen or rounded.
- **Leaking:** Oily residue or fluid visible on or around the capacitor.
- **No Continuity:** A multimeter test shows no continuity across the terminals (requires professional testing).
- **Burn Marks:** Discoloration or burn marks on the capacitor casing or terminals.

If any of these signs are observed, the capacitor should be replaced immediately by a qualified technician.

9. Troubleshooting

A faulty capacitor is a common cause of HVAC system malfunctions. If your appliance (e.g., air conditioner, heat pump) is exhibiting the following symptoms, the capacitor may need replacement:

- Motor hums but does not start.
- Fan motor runs, but the compressor does not, or vice versa.
- Unit struggles to start or cycles on and off frequently.
- Reduced cooling or heating performance.

Solution: If a capacitor is suspected to be faulty, it should be tested and replaced by a qualified technician. Do not attempt to repair a capacitor; always replace it with a new one that matches the original specifications.

10. Warranty and Support

For warranty information or technical support regarding your UpStart Components CAP-97F9848 capacitor, please contact UpStart Components directly through their official website or customer service channels. Keep

your purchase receipt as proof of purchase.