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OEM Replm for Weather King 43-23204-17

User Manual: Weather King OEM Round Replacement Dual Run Capacitor

Model: 43-23204-17 | Brand: OEM Replm for Weather King

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the Weather King OEM Round Replacement Dual Run Capacitor, model 43-23204-17. This component is designed as a replacement part for HVAC systems, specifically for starting and running the compressor and fan motors.

A dual run capacitor contains two capacitors in one unit, typically used in air conditioning units and heat pumps. It has three terminals: 'HERM' for the compressor, 'FAN' for the fan motor, and 'C' for the common line. This particular model is rated at 55 + 5 microfarads (UF/MFD) and 370 Volts.

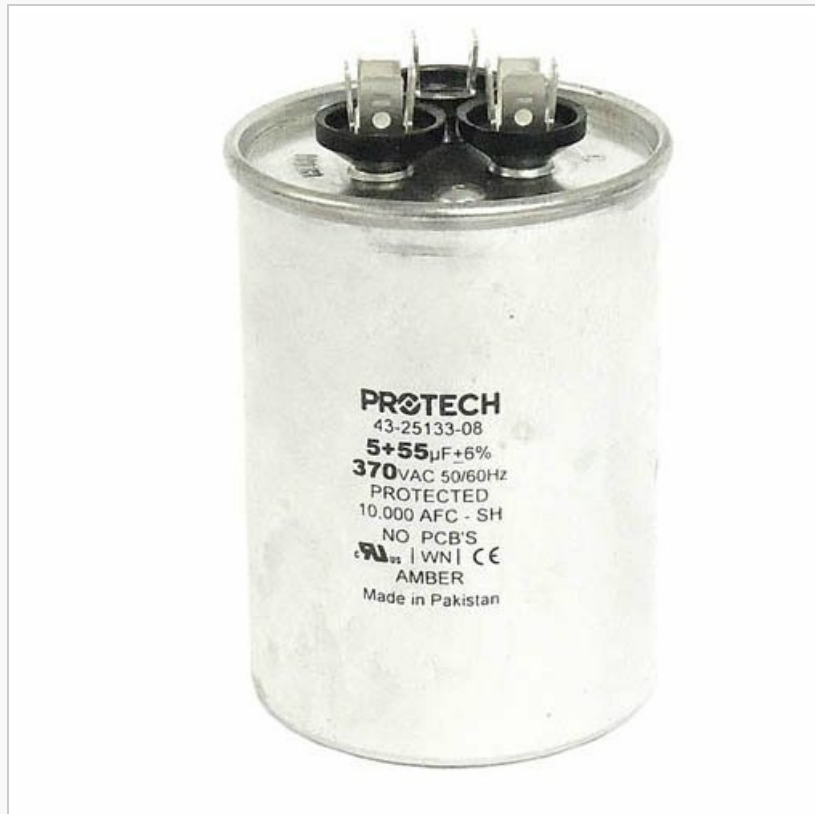


Image 1.1: Weather King OEM Round Replacement Dual Run Capacitor. This image displays a cylindrical capacitor with three terminals on top. The label on the capacitor indicates 'PROTECH 43-25133-08', '5+55µF+6%', '370VAC 50/60Hz', 'PROTECTED 10,000 AFC SH', 'NO PCB'S', 'WNICE', 'AMBER', and 'Made in Pakistan'. Note that the model number on

the capacitor in the image (43-25133-08) differs from the product's listed model number (43-23204-17), but the capacitance (55+5 μ F) and voltage (370VAC) specifications are consistent.

2. SAFETY INFORMATION

WARNING: Electrical components can cause severe injury or death. Installation and servicing should only be performed by qualified and licensed HVAC technicians. Always disconnect power before handling electrical components.

- Ensure the main power supply to the HVAC unit is completely disconnected and locked out before attempting any installation or maintenance.
- Capacitors can store a dangerous electrical charge even after power is disconnected. Always discharge the capacitor safely before handling.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Verify the replacement capacitor's specifications (UF/MFD and Voltage) match or exceed the original capacitor's requirements.
- Do not touch the terminals of the capacitor with bare hands or uninsulated tools.

3. SETUP AND INSTALLATION

This capacitor is intended as a direct replacement for compatible HVAC systems. Professional installation is strongly recommended.

1. **Disconnect Power:** Turn off the main power supply to the HVAC unit at the circuit breaker or disconnect switch. Verify power is off using a multimeter.
2. **Locate Capacitor:** Open the access panel of the outdoor unit (condenser) and locate the existing capacitor.
3. **Discharge Capacitor:** Using a properly insulated screwdriver with an insulated handle, short the terminals of the old capacitor to safely discharge any stored electrical energy. Be cautious, as a spark may occur.
4. **Note Wiring:** Carefully observe and note the wiring connections to each terminal (C, HERM, FAN) of the old capacitor. Taking a photograph is recommended.
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 Weather King OEM capacitor into the mounting bracket.
7. **Connect Wiring:** Reconnect the wires to the corresponding terminals on the new capacitor, ensuring a secure and correct connection based on your previous notes.
8. **Secure Access Panel:** Close and secure the HVAC unit's access panel.
9. **Restore Power:** Restore power to the HVAC unit at the circuit breaker or disconnect switch.
10. **Test Unit:** Start the HVAC unit and verify proper operation of both the compressor and the fan motor.

4. OPERATING PRINCIPLES

The dual run capacitor serves two primary functions within an HVAC system:

- **Start Function:** It provides a temporary phase shift to the motor windings, creating a rotating magnetic field that helps the motor overcome inertia and begin rotation.
- **Run Function:** Once the motor is running, the capacitor continues to provide a phase shift, improving the motor's efficiency and torque during continuous operation.

The 55 microfarad (μF) section is typically for the compressor motor, while the 5 microfarad (μF) section is for the outdoor fan motor. The common terminal 'C' connects to the incoming power line.

5. MAINTENANCE

Capacitors are generally sealed units and require minimal maintenance. However, periodic visual inspection is recommended as part of routine HVAC system checks.

- **Visual Inspection:** During annual HVAC servicing, a qualified technician should visually inspect the capacitor for signs of swelling, bulging, leaks, or corrosion around the terminals. These are indicators of a failing capacitor.
- **Cleaning:** Ensure the area around the capacitor is free from dust and debris to prevent overheating.
- **Testing:** A technician can test the capacitance (μF) of the unit using a multimeter with a capacitance function to ensure it is within the manufacturer's specified tolerance (typically $\pm 5\%$ or $\pm 6\%$).

6. TROUBLESHOOTING

A failing capacitor is a common cause of HVAC system malfunctions. If your HVAC unit exhibits any of the following symptoms, the capacitor may need replacement:

- **Outdoor Fan Not Starting:** The outdoor fan motor hums but does not spin, or spins slowly and needs a push to start.
- **Compressor Not Starting:** The compressor hums loudly but does not engage, or the unit trips the circuit breaker.
- **Unit Not Cooling Effectively:** Reduced cooling capacity, potentially due to the compressor or fan not running at optimal efficiency.
- **Visible Damage:** The capacitor appears swollen, bulging, or leaking.

If you observe any of these issues, contact a qualified HVAC technician for diagnosis and replacement. Do not attempt to repair a faulty capacitor yourself.

7. SPECIFICATIONS

Feature	Specification
Product Type	Dual Run Capacitor
Capacitance	55 + 5 UF/MFD (Microfarads)
Voltage Rating	370 Volt AC
Shape	Round
Manufacturer	Weather King (OEM Replacement)
Model Number	43-23204-17
Product Dimensions	6 x 6 x 6 inches
Item Weight	13 ounces
First Available Date	October 11, 2013

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support, please refer to the documentation provided with your purchase or contact the seller directly. As an OEM replacement part, warranty terms may vary.

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