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› DJR Ohmic Heater 150W Aluminum Alloy Heating Element Electrical Heater Industrial Resistance Heater

Deeeoe DJR-150

DJR Ohmic Heater User Manual

Model: DJR-150 Series

Brand: Deeeoe

1. INTRODUCTION

The DJR series aluminum alloy pectination heater is specifically designed for damp-proof electrical equipment. This industrial resistance heater is composed of an aluminum alloy cooling body and an alloy heating wire, ensuring efficient heat dissipation and reliable performance.

Key characteristics include its compact size, aesthetic appearance, uniform thermolysis, and large thermolysis cubage, which extends the lifespan of the heating wire. The heater utilizes 6063-T5 Aluminum Alloy extrusions for the conduction cooling body and a high-quality Ni80Cr20 nickel-chromium alloy for the internal heating element. Its robust design ensures safety, reliability, and resistance to damage.

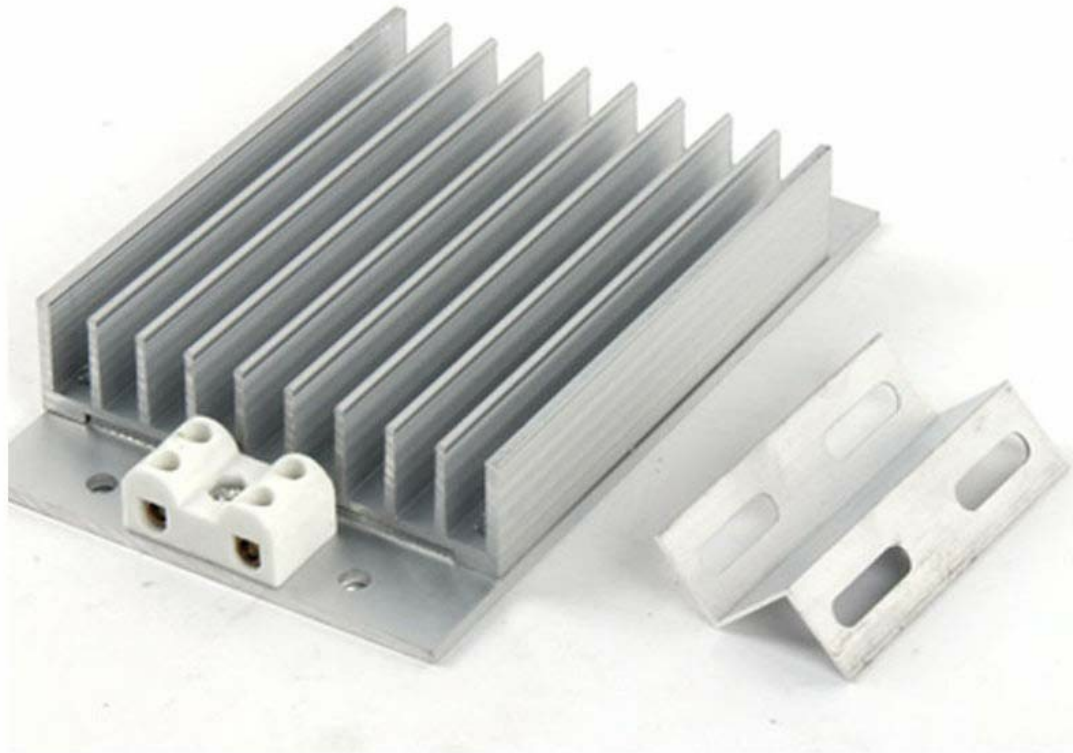


Figure 1: DJR Ohmic Heater 150W with included mounting brackets. The heater features a finned aluminum body for heat dissipation and a white ceramic terminal block for electrical connections.

2. SAFETY PRECAUTIONS

Always observe the following safety precautions to prevent injury or damage to the heater:

- Ensure the power supply matches the heater's voltage rating (220V/110V).
- Disconnect power before installation, maintenance, or troubleshooting.
- Do not operate the heater in environments exceeding its specified temperature limits.
- Ensure proper grounding to prevent electrical shock.
- Keep flammable materials away from the heater during operation.
- Installation should be performed by qualified personnel in accordance with local electrical codes.

3. INSTALLATION AND SETUP

Follow these steps for proper installation of your DJR Ohmic Heater:

1. **Mounting Location:** Select a suitable location within the electrical enclosure or equipment that allows for adequate air circulation around the heater's fins. Avoid mounting in confined spaces without ventilation.
2. **Secure Mounting:** Use the provided mounting brackets and appropriate screws to securely fasten the heater to a stable surface. Refer to the specifications for hole distant and installation hole size.
3. **Electrical Connection:** Connect the power supply wires to the heater's terminal block. Ensure connections are tight and secure. Observe correct polarity if applicable, though for a resistance heater, polarity is typically not critical for function, but proper grounding is essential.
4. **Grounding:** Ensure the heater's metal body is properly grounded to prevent electrical hazards.
5. **Initial Check:** Before applying power, double-check all connections and ensure there are no loose wires or obstructions.

4. OPERATION

The DJR Ohmic Heater is designed for continuous operation to maintain a stable temperature within an enclosure, primarily for damp-proofing and preventing condensation.

- **Power On:** Once installed and wired correctly, apply power to the circuit connected to the heater. The heater will begin to generate heat immediately.
- **Temperature Control (Optional):** For precise temperature regulation, it is recommended to integrate the heater with an external thermostat or humidistat (not included). This allows the heater to cycle on and off as needed to maintain a desired temperature or humidity level.
- **Monitoring:** Periodically monitor the temperature within the enclosure to ensure the heater is functioning as expected and maintaining the desired conditions.

5. MAINTENANCE

The DJR Ohmic Heater requires minimal maintenance due to its robust design. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Power Disconnection:** Always disconnect power to the heater before performing any maintenance.
- **Cleaning:** Periodically inspect the heater's fins for dust or debris accumulation. Clean gently with a soft brush or compressed air to ensure efficient heat dissipation. Do not use liquids for cleaning.
- **Terminal Connections:** Check the electrical terminal connections annually to ensure they remain tight and free from corrosion.
- **Physical Inspection:** Inspect the heater for any signs of physical damage, such as bent fins or cracked terminal blocks. Replace the unit if significant damage is observed.

6. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Heater not generating heat	No power supply; Loose wiring; Faulty heater element	Check power source and circuit breaker; Inspect and tighten wiring connections; Test heater element for continuity (if qualified) or replace unit.
Insufficient heating	Incorrect voltage; Heater undersized for enclosure; Poor air circulation; Dust accumulation on fins	Verify correct voltage supply; Ensure heater wattage matches enclosure size; Improve ventilation; Clean heater fins.
Overheating	Lack of ventilation; Heater oversized for enclosure; Faulty external thermostat (if used)	Ensure adequate air flow; Consider a lower wattage heater; Check and replace thermostat if necessary.

If the problem persists after attempting these solutions, contact a qualified electrician or the manufacturer for assistance.

7. SPECIFICATIONS

The following table outlines the technical specifications for the DJR series Ohmic Heaters:

Model	Power (V)	Heat Watt (W)	Dimension (mm) (L*W*H)	Heating Element Length (mm)	Hole Distant (mm)	Installation Hole Size (mm)
DJR-50	220/110	50	132*85*23	90	55	6.3
DJR-75	220/110	75	132*85*23	90	55	6.3
DJR-100	220/110	100	163*100*28	120	55	6.5
DJR-150	220/110	150	163*100*28	120	55	6.5
DJR-200	220/110	200	163*100*28	120	55	6.5

Note: Dimensions are approximate and subject to minor manufacturing variations.

8. WARRANTY AND SUPPORT

This DJR Ohmic Heater is typically covered by the manufacturer's standard warranty, which protects against defects in materials and workmanship under normal use. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the manufacturer, Deeoee, or your authorized distributor. Ensure you have your product model number (e.g., DJR-150) and purchase date available when seeking support.

