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TROTEC TDS 50 R

TROTEC TDS 50 R Electric Fan Heater 9 KW User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your TROTEC TDS 50 R Electric Fan Heater 9 KW. Please read these instructions carefully before using the device for the first time. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury and damage to the device:

- Ensure the heater is connected to a properly grounded 400 V power supply.
- Do not cover the heater. Maintain adequate clearance from flammable materials.
- Do not operate the heater in areas with explosive atmospheres or near flammable liquids or gases.
- Keep children and pets away from the heater during operation.
- Do not touch the heating elements when the device is in use or immediately after use, as they will be hot.
- Always unplug the heater before cleaning, maintenance, or moving.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.
- The heater is equipped with overheat protection. If it overheats, it will automatically shut off. Allow it to cool down before restarting.

3. PRODUCT OVERVIEW

The TROTEC TDS 50 R is a robust 9 kW electric fan heater designed for construction sites and similar demanding environments. It features a durable metal casing and an integrated thermostat for consistent heat output.

Key Features:

- 9 kW electric heating capacity.
- Sturdy metal casing for durability.
- Convenient carrying handle for portability.
- Integrated thermostat for automatic temperature control.

- Overheat protection for enhanced safety.
- Operates on a 400 V power supply.



Figure 1: Overall view of the TROTEC TDS 50 R Electric Fan Heater.

4. SETUP

4.1 Unpacking

Carefully remove the heater from its packaging. Inspect the device for any signs of damage during transit. If any damage is found, do not operate the heater and contact your supplier.

4.2 Placement

Place the heater on a stable, level, and non-flammable surface. Ensure there is sufficient clearance around the heater for proper air circulation. Do not place it directly against walls or furniture. Maintain a minimum distance of 1 meter (3 feet) from any combustible materials.

4.3 Electrical Connection

The TROTEC TDS 50 R requires a 400 V power supply. Ensure the electrical outlet is properly grounded and rated for the heater's power consumption (9 kW). Connect the power plug securely into the appropriate socket.

5. OPERATING INSTRUCTIONS

The heater is controlled by two rotary switches located on the front panel.



Figure 2: Control panel with thermostat and power selection switches.

5.1 Controls

- **Left Rotary Switch (Thermostat):** Adjusts the desired room temperature from MIN to MAX. The heater will cycle on and off to maintain the set temperature.
- **Right Rotary Switch (Power Selector):** Controls the operating mode and heating power.

5.2 Operating Modes

1. **Position 0 (Off):** The heater is turned off.
2. **Fan Only Mode (Fan Icon):** The fan operates without heating, providing air circulation.
3. **Heating Level 1 (Single Bar Icon):** Provides partial heating power.
4. **Heating Level 2 (Double Bar Icon):** Provides full heating power (9 kW).

5.3 Starting the Heater

1. Plug the heater into a suitable 400 V power outlet.
2. Turn the left rotary switch (thermostat) to the desired temperature setting. For continuous heating, set it to MAX.
3. Turn the right rotary switch (power selector) to the desired heating level (Level 1 or Level 2) or to the fan-only mode. The heater will begin operation.

5.4 Shutting Down

To turn off the heater, rotate the right rotary switch (power selector) to position 0. Unplug the device from the power outlet when not in use for extended periods.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your heater.

6.1 Cleaning

- Before cleaning, always unplug the heater and allow it to cool completely.
- Wipe the exterior of the heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Periodically clean the air inlet and outlet grilles to remove dust and debris. Use a vacuum cleaner or a soft brush.
- Do not immerse the heater in water or spray water directly onto it.



Figure 3: Front view of the heater, showing heating elements behind the protective grille.



Figure 4: Rear view of the heater, showing the fan behind the protective grille.

6.2 Storage

If the heater will not be used for an extended period, store it in a dry, dust-free location, preferably in its original packaging. Ensure the power cord is neatly coiled and secured.

7. TROUBLESHOOTING

Before contacting customer support, please check the following common issues:

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply; Power switch is off; Overheat protection activated.	Check power connection and outlet; Turn power switch to an ON position; Unplug, allow to cool, then restart.
Heater produces no heat, only fan runs.	Power selector set to fan-only mode; Thermostat set too low.	Set power selector to a heating level (Level 1 or 2); Increase thermostat setting.
Heater turns off unexpectedly.	Overheat protection activated; Thermostat reached set temperature.	Unplug, allow to cool, check for obstructions; This is normal operation if the room temperature is reached.
Reduced heat output.	Air inlets/outlets blocked; Heater operating on lower power level.	Clean grilles; Select higher power level.

8. SPECIFICATIONS

Specification	Value
Brand	TROTEC
Model Number	TDS 50 R (1410000008)
Color	White
Product Dimensions (L x W x H)	31.5 x 25 x 37 cm
Item Weight	7.2 Kilograms
Number of Speeds	2
Special Feature	Overheat Protection
Power Source	Electric
Heating Method	Convection
Recommended Product Uses	Construction Site
Mounting Type	Table Mount
Indoor/Outdoor Use	Indoor

9. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts, please refer to the documentation provided with your purchase or visit the official TROTEC website. Keep your proof of purchase for warranty claims.