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Mr. Heater MHVDF30RTT

Mr. Heater MHVDF30RTT 30,000 BTU Radiant Vent-Free Dual Fuel Heater Instruction Manual

Model: MHVDF30RTT | Brand: Mr. Heater

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Mr. Heater MHVDF30RTT 30,000 BTU Radiant Vent-Free Dual Fuel Heater. This versatile heating solution is designed to provide reliable warmth for areas up to 1,000 square feet, operating on both liquid propane (LP) and natural gas. It utilizes advanced infrared technology to directly warm objects and people, creating a comfortable environment without requiring external venting.



Image: Front view of the Mr. Heater MHVDF30RTT Radiant Vent-Free Dual Fuel Heater, showcasing its white casing and black protective grill over the ceramic heating elements.

SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety warnings and instructions before installing or operating this heater. Failure to follow these instructions could result in fire, explosion, property damage, personal injury, or loss of life.

- **Vent-Free Operation:** This heater is designed for vent-free operation, meaning it does not require a chimney or flue. However, adequate ventilation is crucial. Ensure the area is properly ventilated as specified in the full product manual.
- **Oxygen Depletion Sensor (ODS):** The heater is equipped with an automatic low oxygen shut-off system. If oxygen levels in the room drop below a safe threshold, the heater will automatically turn off. Do not tamper with or bypass this safety feature.
- **Overheat Safety:** An internal safety device will automatically shut off the heater if it operates at higher than normal temperatures.

- **Fuel Connection:** Features a patented two-step fuel connection process to prevent incorrect fuel hook-ups (e.g., connecting natural gas to a propane-configured unit or vice-versa). Always ensure the correct fuel type is selected and connected.
- **Clearances:** Maintain proper clearances from combustible materials as indicated in the full installation guide. Do not place flammable objects near the heater.
- **Supervision:** Always supervise children and pets when the heater is in operation. The protective grill can become hot.
- **Carbon Monoxide Detector:** It is highly recommended to install a carbon monoxide detector in any area where a vent-free gas heater is used.

SETUP

The Mr. Heater MHVDFDF30RTT offers flexible installation options, allowing it to be either wall-mounted or used as a freestanding unit with included feet.

Installation Options

- **Wall Mount:** Use the provided wall mount hardware to securely attach the heater to a suitable wall surface. Ensure the wall material can support the weight of the heater and that proper clearances are maintained.
- **Floor Stand:** Attach the included feet to the base of the heater for stable freestanding operation. Place the heater on a level, non-combustible surface.



Image: The Mr. Heater MHVDF30RTT heater shown with its optional floor stand feet attached, ready for freestanding use.

Fuel Connection

This is a dual fuel heater, compatible with both natural gas and liquid propane. Ensure you have the correct connection kit for your chosen fuel type. For propane, a two-stage regulator and hose are typically required.

Video: Demonstration of a 12-foot two-stage propane regulator hose (F273684) and its components, highlighting safe and leak-free connection for propane tanks. This accessory is essential for connecting the heater to a propane supply.

OPERATING INSTRUCTIONS

Operating your Mr. Heater is straightforward with its electronic ignition and integrated thermostat.

Starting the Heater

1. Ensure the fuel supply is connected and turned on.
2. Locate the control knob on the top of the heater. Turn the knob to the 'PILOT' position and press it down.
3. While holding the knob down, press the electronic ignition button repeatedly until the pilot light ignites. Continue to hold the control knob down for approximately 30-60 seconds after ignition to ensure the thermocouple is heated and

holds the pilot light.

4. Once the pilot light is stable, release the control knob. If the pilot light extinguishes, repeat the ignition process.
5. Turn the control knob to your desired heat setting (1-5, or Low, Medium, High depending on the model's markings). The radiant ceramic tiles will begin to glow orange as heat is emitted.

Adjusting Heat Output

The integrated thermostat allows for precise temperature control. Rotate the control knob to select from various heat settings, typically ranging from 1 (lowest) to 5 (highest), or marked as Low, Medium, and High. The heater will modulate its output to maintain the selected temperature.

Shutting Down the Heater

To turn off the heater, simply rotate the control knob to the 'OFF' position. Always ensure the fuel supply valve is also closed when the heater is not in use for extended periods.

Video: A demonstration of a similar 30,000 BTU infrared wall heater, showing the ignition process, heat settings, and the radiant glow of the ceramic tiles during operation. Note: This video features a Dyna-Glo branded heater, but the operational principles are analogous.

MAINTENANCE

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

- **Cleaning:** Keep the heater's exterior clean. Use a soft, damp cloth to wipe down surfaces. Do not use abrasive cleaners or solvents. Ensure the air intake and exhaust vents are free from dust and debris.
- **Pilot Light/Burner Inspection:** Periodically inspect the pilot light and main burner for proper flame appearance. Refer to the detailed manual for specific flame characteristics. Any abnormal flame should be addressed by a qualified service technician.
- **Gas Connections:** Regularly check all gas connections for leaks using a soap and water solution. Never use an open flame to check for leaks.
- **Storage:** If storing the heater for an extended period, ensure the fuel supply is disconnected and the unit is clean and dry. Store in a safe, dry location.

TROUBLESHOOTING

If you encounter issues with your heater, refer to the following common troubleshooting steps. For complex problems, consult a qualified service technician.

- **Heater will not ignite:**
 - Ensure the fuel supply is open and there is sufficient fuel (e.g., propane tank is not empty).
 - Verify the control knob is in the 'PILOT' position and held down long enough during ignition.
 - Check for proper spark from the electronic igniter.
- **Pilot light will not stay lit:**
 - Ensure the control knob is held down for the recommended time (30-60 seconds) after pilot ignition to heat the thermocouple.
 - Check for drafts that might be extinguishing the pilot flame.
 - The Oxygen Depletion Sensor (ODS) may have activated due to low oxygen levels. Ensure adequate ventilation.
- **Heater produces insufficient heat:**
 - Verify the control knob is set to a higher heat setting.
 - Ensure the heater is correctly sized for the area being heated (this model heats up to 1,000 sq. ft.).
 - Check for obstructions around the heater that might impede heat distribution.

SPECIFICATIONS

Feature	Detail
Brand	Mr. Heater
Model Name	MHVDF30RTT
Part Number	F299430
BTU Output	30,000 BTU
Heating Coverage	Up to 1,000 sq. ft.
Fuel Type	Natural Gas, Propane (Dual Fuel)
Burner Type	Radiant
Special Features	Adjustable Temperature, Vent-Free, Electronic Ignition, On-board Thermostat, Low Oxygen Shut-off System
Mounting Type	Wall Mount, Freestanding (with included feet)
Color	White
Material	Plastic, Steel
Product Dimensions	12.5"D x 30.25"W x 28"H
Fuel Consumption Rate (LP)	1.389 lbs per hour
Minimum LP Tank Capacity	20 lb cylinder
Maximum Run Time (LP)	Up to 14.39 hours (at maximum BTU with 20lb cylinder)

WARRANTY AND SUPPORT

This Mr. Heater product comes with a warranty. For specific warranty details and to register your product, please refer to the documentation included with your heater or visit the official Mr. Heater website. For technical support or service inquiries, please contact Mr. Heater customer service.