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### maXpeedingrods MXR-1F

# maXpeedingrods 8KW 12/24V Diesel Heater with LCD Display and App Control User Manual

This manual provides comprehensive instructions for the maXpeedingrods 8KW 12/24V Diesel Heater (Model MXR-1F), covering installation, operation, maintenance, and troubleshooting for optimal performance in various vehicle applications.

Brand: maXpeedingrods | Model: MXR-1F

## 1. PRODUCT OVERVIEW

The maXpeedingrods 8KW Diesel Heater is designed to provide efficient and rapid heating for various vehicles, including trucks, campers, RVs, and boats. It operates on 12V or 24V power and features multiple control options for user convenience.



Figure 1.1: maXpeedingrods 8KW Diesel Heater main unit and accessories.

## 1.1 Key Features

- Powerful and Rapid Heating:** Delivers 8KW of heating power, quickly warming up spaces within 10 minutes.
- Multiple Control Modes:** Equipped with an LCD display, remote control, and smartphone app for convenient operation.
- Automatic Altitude Adjustment:** Automatically adjusts operating frequency based on altitude (up to 5000m) to maintain optimal temperature.
- Enhanced Accessories:** Includes upgraded components such as thickened air pipes, nylon wiring, and a 304 stainless steel exhaust pipe for improved performance and durability.

## Potenza Termica Potente e Rapida

Fino a 27.000 BTU, perfetta per grandi spazi



## Potenza Termica Insufficiente e Lenta

Richiede tempi lunghi per l'accensione e il riscaldamento a causa della comune candela di accensione

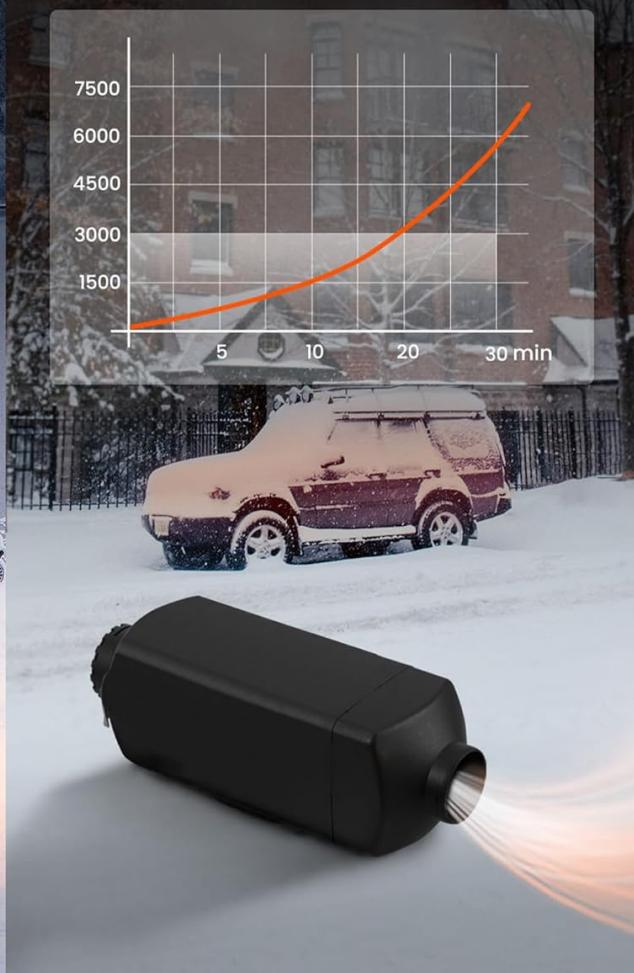


Figure 1.2: Illustration of powerful and rapid heating capability, reaching up to 27,000 BTU for large spaces.

## 1.2 Applications

This diesel heater is suitable for a wide range of winter applications, including:

- Agricultural Machinery
- Automobiles
- Campers and RVs
- Boats
- Vans
- Excavation Machinery
- Trailers
- Trucks

# Ampia Applicazione

Perfetto per la Vita Invernale



Macchine Agricole



Auto



Camper



Barca



Pulmino



Macchine da Scavo



Rimorchio Camper



Camion



Figure 1.3: Wide range of applications for the maXpeedingrods diesel heater.

## 2. PACKAGE CONTENTS

The following components are included with your maXpeedingrods 8KW Diesel Heater:

# Accessori inclusi



Figure 2.1: All included accessories for the diesel heater.

- Main Heater Device
- LCD Control Panel
- Wiring Harness
- Fuel Pump
- Air Filter
- Air Outlet Grille
- Fuel Tank (Auxiliary)
- Flexible Fuel Hose
- Muffler
- Fuel Filter
- Rubber Clamp for Fuel Pump
- Oil Extractor
- Exhaust Pipe (Stainless Steel 304)
- Remote Control
- Mounting Plate

- Protective Gloves
- User Manual (this document)
- Hot Air Outlet Pipe
- Air Inlet Pipe
- Installation Kit (various clamps, screws, etc.)

## 3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your diesel heater. It is recommended that installation be performed by individuals with mechanical and electrical knowledge. Refer to the included installation kit for specific hardware.

### 3.1 General Installation Guidelines

1. **Mounting:** Securely attach the main heater unit using the provided mounting plate. Ensure adequate clearance around the unit for air circulation and maintenance.
2. **Fuel System:** Connect the fuel pump, fuel filter, and fuel lines to the fuel tank and the heater. Ensure all connections are tight to prevent leaks. If using the auxiliary fuel tank, position it appropriately. If tapping into an existing vehicle fuel tank, use the provided oil extractor/standpipe.
3. **Exhaust System:** Install the stainless steel exhaust pipe and muffler. Ensure the exhaust is routed safely away from flammable materials and exits the vehicle/enclosure to prevent carbon monoxide buildup.  
**Warning:** Exhaust temperatures can be very high; ensure proper insulation and clearance to avoid damage or fire.
4. **Air Ducts:** Connect the hot air outlet pipe and air inlet pipe. Ensure these are securely fastened and routed to provide effective heat distribution and proper air intake.
5. **Electrical Connections:** Connect the wiring harness to the heater, control panel, and a suitable 12V or 24V power source. Verify correct polarity and secure all connections.

### 3.2 Priming the Fuel System

Before the first use or after running out of fuel, the fuel system must be primed to ensure proper fuel delivery to the heater. This typically involves:

- Filling the fuel tank.
- Pressing and holding the "OK" button and the "down arrow" button on the LCD control panel simultaneously to initiate the fuel priming sequence. This will activate the fuel pump to draw diesel through the lines until they are full.
- Repeat if necessary until fuel flows consistently.

## 4. OPERATING INSTRUCTIONS

Your maXpeedingrods diesel heater offers three convenient methods for control:

# 3 Modi per Avviare



Figure 4.1: Overview of the three control methods.

## 4.1 LCD Control Panel

The high-resolution LCD panel allows direct control over the heater's functions. Use the buttons to:

- Turn the heater ON/OFF.
- Adjust the target temperature.
- Select operating modes.
- Monitor current status and error codes.

## 4.2 Remote Control

The included remote control allows you to operate the heater from a distance (up to 50 meters), providing convenience, especially in cold conditions.

- Press the ON/OFF button to start or stop the heater.
- Use the temperature adjustment buttons to set your desired heat level.

## 4.3 Smartphone App Control

For advanced control and monitoring, download the dedicated smartphone application. The app connects via Bluetooth and allows you to:

- Remotely turn the heater ON/OFF.
- Precisely adjust temperature settings.
- View real-time operating status.
- Access additional settings and diagnostics.

The image shows a smartphone displaying a mobile application interface. The app's header reads "Il Riscaldamento Diventa Intelligente" and "Connessione tramite Bluetooth®, facile controllo remoto". The background of the app shows a red car parked in a snowy environment. The app's interface includes a device icon, "23 °C Room Temp", a power button, "3 Power Level", and various status indicators like "Run Status", "Voltage", "BodyTemp", and "Altitude". A hand is holding the phone, and another hand is interacting with the screen. The overall theme is冬季 (winter) and smart technology.

**Scarica l'app**

**Download on the App Store**

**GET IT ON Google Play**

Figure 4.2: Smartphone app for intelligent remote control.

#### 4.4 Automatic Altitude Adjustment

The heater features an automatic altitude compensation system. It continuously monitors the ambient altitude and adjusts its operating frequency to ensure efficient combustion and consistent heating performance, even at elevations up to 5000 meters.

# Regolazione Automatica dell'altitudine

Regola automaticamente la frequenza operativa in base all'altitudine per rendere la temperatura adeguata



Figure 4.3: Automatic altitude adjustment for consistent performance.

## 4.5 Operating Modes

The heater can be used for various functions beyond simple heating:

- **Preheating:** Warm up your vehicle or space before use.
- **Defrosting:** Quickly clear frost and ice from windows.
- **Snow Removal:** Assist in melting snow around the vehicle.



Figure 4.4: Versatile operating modes: Preheating, Defrosting, and Snow Removal.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your diesel heater.

- **Fuel Filter:** Periodically inspect and replace the fuel filter to prevent blockages and ensure clean fuel delivery.
- **Air Filter:** Check and clean the air filter regularly to maintain proper airflow and combustion efficiency.
- **Exhaust System:** Inspect the exhaust pipe and muffler for any damage, blockages, or leaks. Ensure it remains securely fastened and clear of obstructions.
- **Electrical Connections:** Verify that all electrical connections are secure and free from corrosion.
- **General Cleaning:** Keep the exterior of the heater clean and free from dust and debris.

## 6. TROUBLESHOOTING

If you encounter issues with your diesel heater, refer to the following common problems and solutions:

- **Heater Fails to Start:**
  - Check fuel level and ensure the fuel lines are not blocked.
  - Ensure the fuel system is properly primed (refer to Section 3.2).
  - Verify all electrical connections are secure and receiving adequate power (12V/24V).

- Check for any error codes displayed on the LCD panel.

- **Display Remains On After Shutdown:**

- Some models may keep the display illuminated after the burner shuts off. If this is undesirable and there is no specific setting to turn it off, a separate switch on the power supply line may be required for complete power cut-off.

- **Insufficient Heating:**

- Ensure the air inlet and outlet are not obstructed.
- Check the air filter for cleanliness.
- Verify the set temperature is appropriate for the space.

- **Unusual Noise or Smoke:**

- Immediately shut down the heater.
- Inspect the exhaust system for leaks or blockages.
- Check fuel quality.
- Contact customer support if the issue persists.

- **Sensor Failure:**

- If a sensor failure is indicated, contact maXpeedingrods customer support for assistance or replacement parts.

For issues not covered here, consult the full user manual or contact maXpeedingrods customer support.

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## 7. SPECIFICATIONS

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# Dimensioni



Figure 7.1: Product dimensions and component sizes.

## General Product Specifications

<b>Manufacturer</b>	maXpeedingrods
<b>Brand</b>	maXpeedingrods
<b>Model</b>	MXR-1F
<b>Item Weight</b>	7 Kilograms
<b>Product Dimensions (L x W x H)</b>	47 x 40.5 x 27 cm
<b>Manufacturer Reference</b>	ZP56HY
<b>ASIN</b>	B0FDQ7WZ85
<b>First Available Date</b>	July 20, 2025



	1KW-2KW	1KW-8KW	1KW-8KW	1KW-8KW
Controllo tramite App	✓	✓	✓	✓
Regolazione Automatica dell'altitudine	✓	✓	✓	✓
Capacità Termica (btu)	7000 BTU/h	27000 BTU/h	27000 BTU/h	27000 BTU/h
Autonomia del Serbatoio Carburante (h)	24h ( max. Potenza)	24h ( max. Potenza)	12h ( max. Potenza)	12h ( max. Potenza)
Serbatoio Carburante(l)	9	9	5	5
Superficie Riscaldata (piedi quadrati)	<107	215-320	215-320	215-320
Dimensioni del Veicolo	Piccola-Media	Grande	Grande	Grande
Dimensioni del Riscaldatore (in)	13.39 x 4.53 x 4.53	15.35 x 5.71 x 5.71	16.54 x 5.91 x 16.14	16.14 x 9.84 x 12.40

Note: questi dati sono solo di riferimento

Figure 7.2: Comparison of maXpeedingrods diesel heater models (Note: Data for reference only).

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact maXpeedingrods customer service directly. Keep your purchase receipt and product model number (MXR-1F) handy when contacting support.

You can typically find contact information on the official maXpeedingrods website or through your point of purchase.

