

Autoterm AIR/2D-12+3765

Autoterm Air 2D Diesel Air Heater User Manual

Model: AIR/2D-12+3765 | Brand: Autoterm

INTRODUCTION

The Autoterm Air 2D (formerly Planar 2D) 12V is the most compact diesel air heater in Autoterm's product portfolio. With a heating power of 2 KW, it is ideal for small vehicles and boats (up to approximately 10m). The Autoterm Air 2D produces a heated air volume of up to 75 m³, consuming a maximum of only 0.24 liters of diesel per hour. The power consumption is a maximum of 29 W/h.

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Autoterm Air 2D diesel air heater. Please read it thoroughly before use.

PRODUCT OVERVIEW

Key Features

- **Low Consumption:** The air heater requires only 0.1-0.24 liters of diesel per hour and 10-29 Watts of power (0.8-2.4 Amperes), making it extremely economical and cost-efficient in consumption.
- **Intuitive Operation:** Manually adjust the heating power of the Autoterm Air 2D diesel heater with the simple PU-5 rotary knob or circulate heated air.
- **Certified:** Thanks to the ECE control mark, the diesel heater, manufactured in the European Union, meets all road traffic regulations and offers a high level of safety.
- **Easy Installation:** The mounting kit includes exhaust and fuel components, cables, air intake, and the control panel, allowing for quick and problem-free commissioning.
- **Wide Application:** The air heater is suitable for travel vehicles such as campers, motorhomes, caravans, as well as cars, trucks, commercial vehicles, boats, yachts, roof tents, etc.

Components Included (What's in the Box)

The Autoterm Air 2D heater comes with a comprehensive basic installation kit, ensuring you have the necessary components for setup.

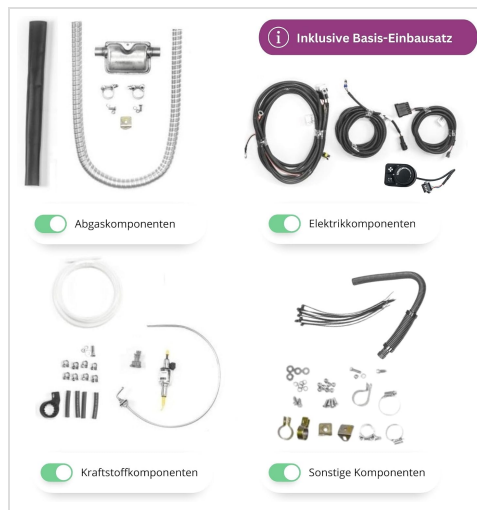


Image: Overview of the basic installation kit, showing exhaust, electrical, fuel, and miscellaneous components.

- Autoterm Air 2D 2 KW heater (12 V version), with integrated altitude kit.
- PU-5 control panel, control cable, power cable for heater, power cable for fuel pump.
- Silent TH11 fuel pump, rubber mount for fuel pump, 5.5m PA 11-5.3 x 1.65 fuel hose.
- Fuel hose fittings, tank extraction pipe, 1m 24mm 2-layer exhaust pipe.
- Exhaust pipe insulation (28 x 5 x 450 mm), 24mm exhaust silencer, exhaust pipe end cap.
- Combustion air intake pipe with integrated silencer.
- Screws, nuts, clamps.

SETUP AND INSTALLATION

The installation of the Autoterm Air 2D heater must be performed in accordance with the provided installation instructions. It is recommended that installation be carried out by a qualified professional.

Dimensions and Placement



Image: Detailed dimensions of the Autoterm Air 2D heater, showing length, width, height, and air system diameters (60mm) and exhaust system diameter (24mm).

The heater dimensions are approximately 31 cm (length) x 14.5 cm (width) x 11.9 cm (height). It features 60mm air system connections and a 24mm exhaust system. Ensure adequate space and ventilation for proper operation and maintenance.

Fuel Pump Installation

The silent TH11 fuel pump is included for quiet operation. Install the fuel pump securely using the provided rubber mount to minimize vibrations and noise.



Image: Close-up of the silent fuel pump and an illustration of its quiet operation within a vehicle environment.

Electrical Connections

Connect the PU-5 control panel, heater power cable, and fuel pump power cable as per the wiring diagram in the full installation manual. Ensure all connections are secure and properly insulated.

OPERATING INSTRUCTIONS

PU-5 Control Panel

The PU-5 control panel allows for easy adjustment of the heater's functions.



Image: Detailed view of the PU-5 control panel, highlighting the ventilation button, rotary knob for power adjustment, and power mode indicator.

- **Rotary Knob:** Adjusts the heating power level.
- **Ventilation Mode:** The PU-5 allows for pure ventilation without heating.
- **Temperature Mode:** When an external temperature sensor (not included) is connected, the heater can operate in temperature control mode.

Starting the Heater

1. Ensure the fuel tank has sufficient diesel.
2. Turn the rotary knob on the PU-5 control panel to the desired power level.
3. The heater will initiate its startup sequence. Allow a few minutes for the heater to reach full operating temperature.

Shutting Down the Heater

1. Turn the rotary knob to the "off" position or select the appropriate shutdown option on the control panel.
2. The heater will enter a cool-down cycle to prevent overheating. Do not disconnect power during this cycle.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Autoterm Air 2D heater.

- **Fuel System:** Periodically check fuel lines and connections for leaks or damage. Ensure the fuel filter is clean.
- **Air Intake/Exhaust:** Inspect the air intake and exhaust pipes for obstructions or damage. Keep them clear of debris.
- **General Cleaning:** Keep the exterior of the heater clean. Do not use abrasive cleaners.
- **Professional Inspection:** It is recommended to have the heater inspected by a qualified technician annually.

TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Heater does not start	No fuel, low battery voltage, clogged fuel line, electrical connection issue.	Check fuel level, ensure battery is charged, inspect fuel lines, verify electrical connections.
Insufficient heating	Low power setting, air intake/exhaust obstruction, dirty combustion chamber.	Increase power setting, clear obstructions, consult manual for cleaning procedures or professional service.
Excessive smoke	Poor fuel quality, incorrect fuel pump setting, carbon buildup.	Use recommended fuel, check fuel pump settings, professional cleaning may be required.

SPECIFICATIONS

The Autoterm Air 2D is a compact and efficient diesel air heater.

Attribute	Detail
Model	Air 2D
Manufacturer	Autoterm
Heating Power	2 KW
Voltage	12 Volt
Fuel Consumption	0.1 - 0.24 liters/hour
Power Consumption	10 - 29 Watts
Heated Air Volume	Up to 75 m³
Dimensions (L x W x H)	31 x 14.5 x 11.9 cm
Weight	6.4 Kilograms
Altitude Operation	Up to 2,500 m (with integrated altitude kit)
Control Panel	PU-5 (included)
Certifications	ECE control mark



Image: Illustration of the automatic altitude adjustment feature, ensuring optimal performance at various elevations up to 2,500 meters.

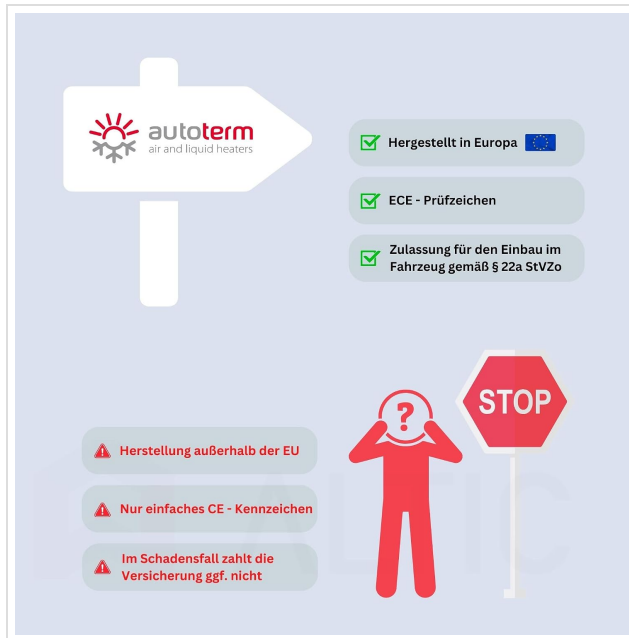


Image: Information regarding Autoterm's manufacturing in Europe, ECE test mark, and approval for vehicle installation according to § 22a StVZO.

IMPORTANT SAFETY INFORMATION

The assembly and installation of this product must strictly comply with the provided installation instructions. Failure to do so may result in damage, malfunction, or safety hazards.

- Always ensure proper ventilation when operating the heater.
- Do not block the air intake or exhaust outlets.
- Use only diesel fuel as specified by the manufacturer.
- Keep flammable materials away from the heater.
- Regularly check for fuel leaks and address them immediately.
- In case of unusual smells, smoke, or malfunction, immediately shut down the heater and seek professional assistance.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Autoterm customer service.

For further assistance, you may also visit the official Autoterm website or contact your authorized dealer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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