



Operation Manual

For Diesel Powered Marine Vessels

Thermo Pro 90 D (Diesel) **Marine Coolant Heater 12 / 24 Volt**



WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

The heater can be registered by visiting www.techwebasto.com or by scanning the code.
A proof of purchase is required for all heaters that are not registered.



Introduction

Dear Webasto Customer,

Thank you for choosing the Webasto Thermo Pro 90 Marine Coolant Heater. We hope it will provide you with many years of reliable comfort.

The Thermo Pro 90 heater is used for the pre-heating and heating of ship cabins, cargo holds, personnel and crew transportation areas. The heater is not to be used for continuous heating of living areas, houseboats, etc. or for heating and/or drying living beings.

We presume that the principle and mode of operation of this product has been explained to your complete satisfaction by the workshop/service center which installed it. In these operating instructions we would like to once again provide you with an overview of the safe use of this product.

To become familiar with and understand all functions of the heater, you must read these operating instructions carefully. Then you can be sure that you can use all functions to your satisfaction and feel completely comfortable and safe. If you should lose these instructions, please contact an authorized Webasto dealer immediately to obtain a replacement copy (see also <http://www.techwebasto.com>).



Repair or maintenance work not described here may only be carried out by an authorized Webasto dealer.

NEVER attempt to install or repair a Webasto heating system unless you have successfully completed Webasto factory training and have the technical skills, technical information, tools and equipment required to properly complete the necessary procedures. Only genuine Webasto parts may be used.

Maintenance and Safety Instructions

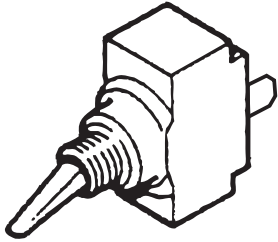
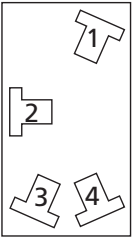
- 1. Webasto heaters must be switched "off" when re-fueling at filling stations to prevent the risk of explosion. Please review the owner's manual for safety and use instructions.**
2. The year in which the heater was used for the first time must be permanently displayed on the factory plate by deleting the inapplicable years from the plate.
3. The heater must not be operated without at least 20% brand name anti-freeze in the water of the heating circuit.
- 4. The heaters are not designed for heating hazardous substance transport compartments.**
5. Claims can only be made if it can be verified that the claimant has complied with the servicing and safety instructions.
- 6. The heater may not be operated in enclosed spaces (such as garages) as a result of the risk of poisoning and asphyxiation, even if a timer is used.**
7. The heater must be checked by Webasto-trained personnel at the latest at the start of the cold weather period.
8. In the event of long-lasting heavy smoke development, unusual combustion noises or a smell of fuel or if the heater suffers continuous fault cut-outs with error messages (flashing code), it must be shut down by removing the fuse and must not be reused until it has been inspected by Webasto-trained personnel.
- 9. Wherever flammable vapors or dust may form, the heater must be switched off as a result of the risk of explosion.**
10. May only be operated with the fuel specified on the rating plate and at the nominal voltage specified on the rating plate.
11. The temperature in the area around the heater must not exceed 85 °C / 185° F (storage temperature). If the temperature exceeds this level there is a risk of permanent damage to the electronics systems.
12. Non-compliance with the installation instructions and the warnings contained therein will lead to the exclusion of all liability by Webasto. The same applies if repairs are carried out incorrectly or by untrained technicians or with the use of parts other than genuine spare parts. This will result in the invalidation of the type approval for the heater unit.
13. To prevent mechanical parts seizing, the heater should be operated for approx. 20 minutes once a month.
14. The heater must be inspected every 2 years by a Webasto-trained specialist at the beginning of the heating season or earlier.
15. Do not stand on the heater and do not place any heavy items on the heater.
16. Do not place any items of clothing, textiles or similar materials over the heater.
17. The current of hot air in the heater must not be restricted or blocked by highly flammable substances or materials such as rags, cleaning wool, etc.

18.The heater must not be cleaned with a high pressure cleaner.

Operation Instructions

The heater can be switched on and off using the following Webasto control:

Toggle Switch

		Heater Control Harness Connection Using a 24 Volt Switch <ol style="list-style-type: none">1. White (Ground)2. Red (Power)3. Black (On signal)4. Green (Operation indication)
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Switch On:

Upon switching on the Webasto heater:

- the operation indicator lamp comes on;
- The heater motor and the coolant circulating pump begin to run;
- After about 10-25 seconds, the fuel pump begins to cycle and the fuel-air mixture in the combustion chamber is ignited;
- Flame is detected;
- At this time the heater is working and produces heat

Switch Off:

Switching off the heater stops combustion. The operating indicator light remains on and run-down commences. The combustion air fan and circulation pump are deactivated after approximately 150 seconds. The operating indicator light goes out to indicate the heater is now fully off.

Reactivation of the heater during run-down is permitted. The burner immediately resumes operation after the run-up time.

Heater Lockout Reset Procedure:

The control unit continuously monitors the heater operation. The control unit identifies errors on individual heater components and faults during operation. Should the control unit experience component errors and operational faults, the heater may be shut down.

Heater Lock out Reset Procedure:

1. Using switch or standard timer control, turn heater on



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www.webasto.us

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