

Installation Instructions Primus 2490



INSTALLATION INSTRUCTIONS PRIMUS 2490

CARAVAN, MOTORHOME AND WORKMEN'S HUTS HEATER

IMPORTANT!

According to the authority's stipulations a number of safety regulations must be strictly observed at installation of gas equipment in caravans, motorhomes and workmen's huts. The installation stated below must be followed without fail.

1. Installation of Primus Heater

The Primus heater must be installed outside but next to the living space of the caravan, motor home or hut in a sealed container. The distance between the walls of the container and the different parts of the heater is not allowed to fall below the measurements indicated therein.

If the gas cylinders are to be stored in the same container as the Primus Heater, a partition wall must be installed between the Primus Heater and the gas cylinders, so that the Primus Heater is installed in a separate heating space. The distance between the gas cylinder and the partition wall must not fall below 1.5 cm (FIGURE 1 and 3).

The Primus Heater should be attached to the base of the container so that the distance between the exhaust parts and the partition walls does not fall below the measurements according to FIGURES. This holds true under the condition that the container is made of a material with shape permanence to heat a temperature of no less than +80°C.

If there is a valve or an opening window closer than 300 mm in relation to the exhaust outlet a window switch must be fitted.

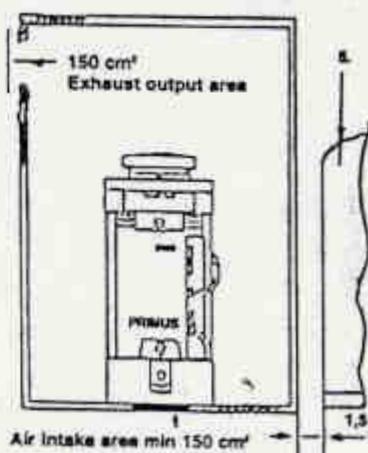
The Primus heater can be installed with or without exhaust pipe. If installed without pipe installation shall be done according to Figure 1 and 2. With pipe according to Figure 3 and 4.

Note

1. The difference in air intake and exhaust output area depending on the kind of installation.
2. That for the pipe installation if the container is tight to the outside a ventilation hole drained to the outside of the container shall be mounted as high as possible (pos 10). Use exhaust wall grommet or similar (min area 30 cm²).

Fig. 1

Measurements in cm



- | | |
|--------------------|----------------------------|
| 1 Circulation pump | 4 Pipe to convector system |
| 2 Wall grommet | 5 Gas cylinder |
| 3 Heater 2490 | 6 Water hose |

150 cm² Exhaust output area Fig. 2

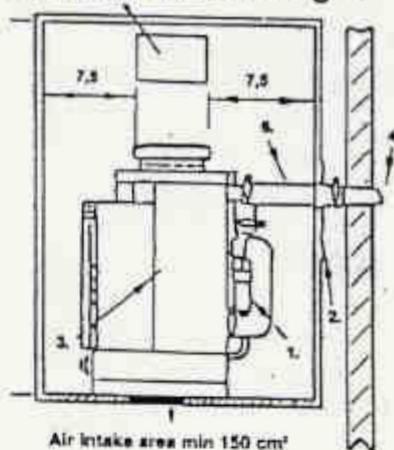


Fig. 3

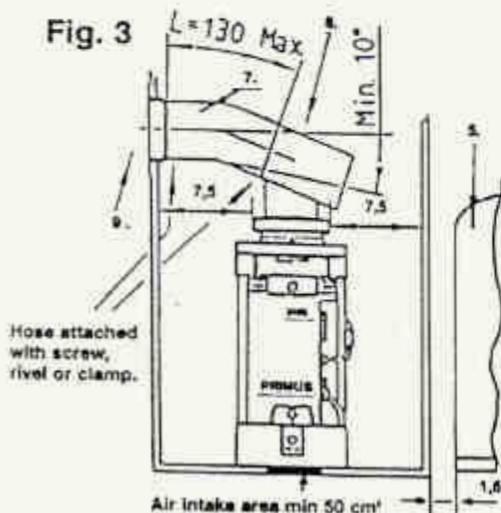
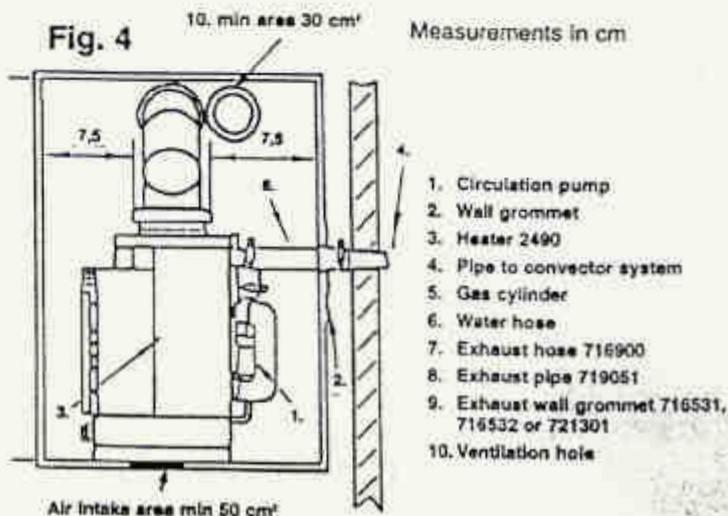
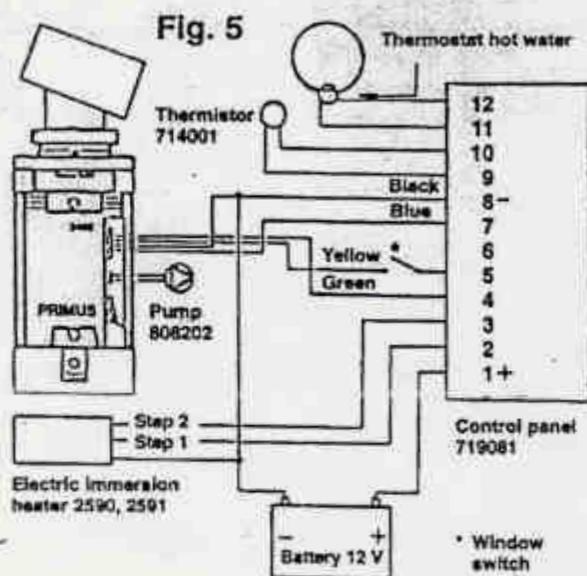


Fig. 4



- | |
|--|
| 1. Circulation pump |
| 2. Wall grommet |
| 3. Heater 2490 |
| 4. Pipe to convector system |
| 5. Gas cylinder |
| 6. Water hose |
| 7. Exhaust hose 716900 |
| 8. Exhaust pipe 719051 |
| 9. Exhaust wall grommet 716531, 716532 or 721301 |
| 10. Ventilation hole |

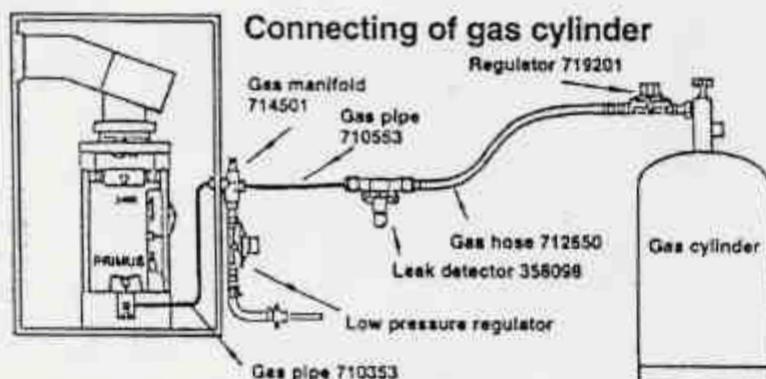


2. Electric installation

The Primus Heater is connected to a 12V battery with electric cables, with a minimum area of 1.5 mm². When an immersion heater with a 220V circulation pump is used **do not** connect the green cable to the heater.

If there is an opening window closer than 300 mm to the exhaust outlet a WINDOW SWITCH must be fitted. This window switch cuts the electric current to the Primus Heater when the window is opened.

Fig. 6



3. Gas installation

The Primus Heater operates with a gas pressure of 20-50 kPa (0,2-0,5 bar) while cooker and refrigerator in the caravan or hut operates with 28 - 50 mbar. It is important to make sure that the different appliances are connected with the correct gas pressure. Use only original parts as shown in FIGURE 6 which have been approved by the proper authority.

Notel Never use non approved hoses and regulators.

It is not allowed to lead gas pipe to the Primus Heater inside the caravan och hut- they should be installed under the caravan or hut. The gas pipe shall be properly clamped and connected to the gas cylinders of the Primus gas manifold/low-pressure valve, refrigerator, cooker, etc.

The following shall be noted at the installation:

- The copper tubes should be run with an expansion loop, in order to take up vibrations
- All grooved nuts have left- hand threads.
- If fitted the Primus leak detector should be mounted in such a way that its container can be tilted upwards when gas cylinders are in position (figure 6).
- If leak detector indicates leakage use leak spray, soapwater or similar to locate leakage.

Caution!

Never use a naked flame in locating possible leakage. Do not smoke while checking. If leakage occurs shut off the gas cylinder and correct the fault! Check again!

N.B. The PRIMUS leak detektor is intended for continual checking of the tightness and does not replace pressure testing.

CE-0048
PRIMUS heater 2490
ID: 048 AN-0003
GAS CATEGORY I₃ 200 - 500 mbar
DESIGNATION: GB
12 V DC 24W/2W

Quality made by



Sweden

PRIMUS LIMITED

Stephenson Way, Fomby
Merseyside L37 8EQ
Telephone: 07048-78614
Fax: 07048-73379

Printed in Sweden. For export only.
64200 / 563815-90.