

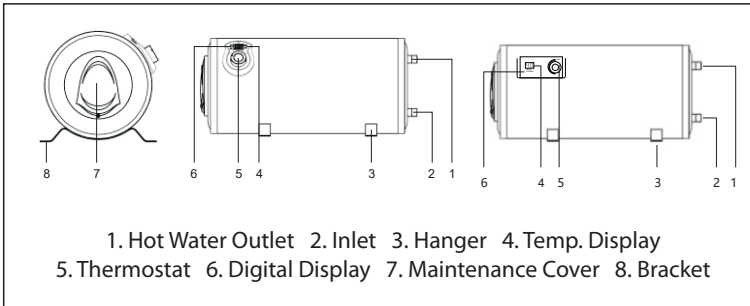
**Installation &
Instruction Manual**

6 Liter 12V Water Boiler

Revised December 2023

Please read manual and keep for future reference

Water Boiler Diagram



Model	Capacity	Watts	Current	Power	Max Temp	Max Pressure
EXUP-B	6L	200W	17A	12V	75°C	4Bar

General Information

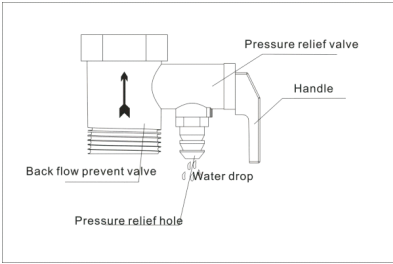
This water boiler is designed for motor yachts, campers, caravans and trailers.

1. Please keep this manual for future reference & read it thoroughly.
2. Only a qualified electrician should install the unit to ensure it is properly installed.
3. This water boiler creates extremely hot water temperatures that may cause scalding. Be sure to mix cold water and hot water before bathing/washing. When using this appliance, close supervision of children is necessary.
4. The pressure relief valve (safety valve) shall be installed in the specified location (**see diagram). No modification is acceptable. When water pressure is high enough, it is normal that some water drops will escape from the pressure relief valve. Do not block the pressure relief valve. Connect a drain hose to the pressure relief valve and lead it to drain for the exterior of the camper. The pressure relief valve may be hot, please be careful not to burn yourself.
5. Make sure to unplug the water heater before you perform any maintenance, or wish to examine, repair or adjust it. A qualified electrician should do all maintenance.
6. Water heater should be installed near the water drain pipe. Keep the drainpipe flowing. Expedition Upfitter is not responsible for any loss of use or damage due to water leaks or spills.
7. If the power cord is damaged, be sure to have it replaced by an after-sales service technician with a special cord, offered by the manufacturer. Contact Expedition Upfitter to order. Many of the components are insulated and protected with an insulation layer. Please consult with Expedition Upfitter before making any alterations.
8. It is strictly prohibited to use this water heater during a thunderstorm. This is to ensure your personal safety.
9. Please cut off power to the plug and turn off the inlet valve when the water heater is not in use for a long period of time.
10. The inlet and outlet lines are 1/2" BSP fittings we now provide you with two 1/2" BSP to NPT fittings should be connected using Teflon tape. Please install after the safety pressure valve.

Notes

When using electrical appliances, please follow the instructions for safety precautions to reduce the risk of fire, electric shock, or injury.

Safety Valve



There is a safety valve (pressure relief valve) supplied with the water heater. While the device is heating, expect a few water drops to fall. This is normal as it helps to decrease the pressure in the tank. The back pressure valve ensures that hot water does not flow back into the cold water supply. The safety valve has been preset rated to 7Bar in factory. Do not adjust.

Installation

Choose a place that is as close as possible to the hot water tap in order to avoid unnecessary loss of heat caused by a long water supply line. Install the boiler in a horizontal position (not in a vertical position). The water boiler should be in a convenient location so that regular maintenance and repairs can be made. It's ideal if you can isolate the boiler so if there are any water leaking issues the damage to your camper will be minimized.

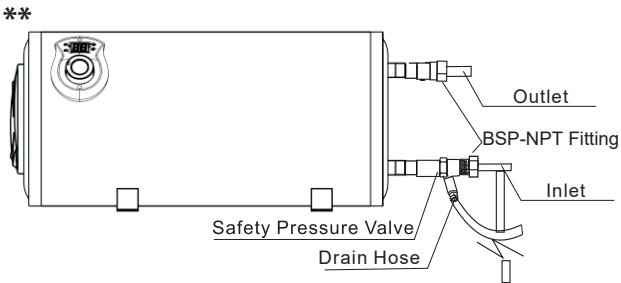
Pressurized hot water boilers have to be equipped with the safety valve provided to protect the unit from excess pressure. Excess pressure may build up and must be allowed to escape via a safety valve drain hose. Install the safety valve and the drain valve at the drain outlet of the boiler. Connect an additional hose to the safety valve leading to the outside or to a tank to make sure that the excess pressure water can run out.

The correct water connection is very important for the proper functioning of this boiler. Use pressure-resistant and non-toxic water hoses and attach them with stainless steel clamps.

Attention

The safety valve must not be blocked at the drain outlet.

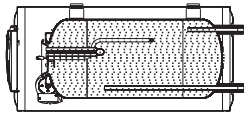
Attach water lines with stainless fittings, use high quality braided tubing and Teflon tape for all threaded connections.



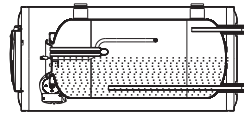
After having installed all water connections, open your water supply and your hot water tap to fill the boiler with water. Once the boiler is completely full, water will run out of the hot water tap. Thanks to its Safety

design, the boiler cannot inadvertently drain itself. You can only empty the boiler completely via the drain valve.

First fill the boiler with water before connecting to the power. Check for water leaks before



Full



connecting. Use a minimum 1.5mm or 16 gauge wire. Hook up to a 20amp fuse before you hook up to your 20amp circuit breaker (red/brown is positive). Use the thermostat to set the temperature. The set temperature is controlled automatically, the signal lamp indicates the heating up of the boiler. The temperature is continuously adjustable.

Caution! Do not operate the boiler without water

If the boiler is operated electrically without water, the temperature safety device installed in the heating element will come into action as soon as the excess heating temperature of 110° is reached and will switch the boiler off electrically. The temperature safety device is located in the probe tube of the heating element.

You have two possibilities to protect your boiler from frost:

1. Keep the boiler connected to the battery and set the thermostat to the lowest setting. Thus, the water temperature is kept above the freezing point. The electricity consumption for this method is very low.
2. Empty the boiler via the drain valve. If the water does not run out, open the water taps to allow air to enter the supply lines. You may need to blow out your lines to completely remove the water.

Warranty

All devices are carefully checked before leaving our plant. We grant 1 year of warranty on all parts. The Warranty starts to run on the day of manufacture. Warranty is not granted in case of damage caused by frost or calcification, by meddling or by improper use. Warranty is granted if the manufacturer has been informed about the damage right after it occurred and if the return of the boiler to the manufacturer has been agreed upon with Expedition Upfitter beforehand.

All other claims are excluded.

In case of malfunctioning please try to get information by phone first. It might be possible to repair the boiler at your place without having to send it to the manufacturer.

Maintenance

If you notice that the water has white scales in it that means its time to replace the magnesium rod (Typically after 1.5 - 2 years of continuous use). This is a simple fix that takes about 20 mins or so. You can order your replacment parts at expeditionupfitter.com. We can supply you with an instructional video for the replacement. We also carry spare heating elements and other parts if needed.