

Compact Boiler KB 3

Assembly Instructions and Instructions for Use



The KB 3 is a low pressure warm water boiler for boats, caravans, mobile homes and vending vehicles and the like.

1. Water Connection: The water connection has to be pressure-less, without buckle and as short as possible in order to avoid loss of heat and back pressure.

a) **Connection to a submergible pump (do not use a back pressure valve):** If the boiler is connected to a submergible pump, the boiler can supply hot water to more than one tapping outlet. Please see our instructions for connection to a submergible pump.

b) **Connection to the water supply line, to a pressure or an automatic pump:** When connecting the KB 3 to the water supply line, a pressure or an automatic pump you always have to use low-pressure fittings. If other fittings are used such as pressure fittings or if the outlet is blocked, the boiler would be damaged. If the boiler is connected to pressurized water supply, only one tapping outlet is possible. Please see our instructions for connection to pressurized water supply.

c) Make sure that water pockets do not occur when installing the lines. (Install such that the lines run upwardly, this is especially important for winter operation). We recommend additional fastening of all hoses with hose clamps.

d) **After proper connection to the water line, be sure to first fill the appliance with water.** If the installation has been made according to fig 1, set mixer valve to red and then open tap or switch on submergible pump. The red knob has to be opened if installation has been made according to fig 3 D. Only when water flows out of the tap when set to red or set to blue, you can be sure that the appliance has been filled with water.

Caution! 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 excessive heating temperature of 117°C is reached and will switch the boiler off electrically. Then, the temperature safety device has to be replaced by a certified serviceman.

Temperature safety devices are available at your distributor or from ELGENA München.

2. Electric Connection. Do not connect the KB 3 to electricity before having completed the water connection and filled the boiler with water! The KB 3 is available in various electric models:

230 V ~ 660 W (only approx. 3,0 amps)

230 V ~ 330 W (only approx. 1,5 amps)

12 V – 200 W (only approx. 16 amps)

24 V – 400 W (only approx. 16 amps)

Note the operating voltage indicated on the boiler.

3. When all connections have been made the appliance is ready for use and the temperature of the water can be set by means of the thermostat. The built-in thermostat guarantees uniform water temperature. After warm water has been used or the water temperature has cooled down, the thermostat switches on automatically. As soon as the desired temperature has been reached, it switches off automatically. During the heating period the signal lamp lights up. If you do not wish that the thermostat operates during your absence, set the thermostat to „0“.

If a small amount of warm water comes out of the outflow or drips out of the tap while the water is being heated, this is due to the expansion of the water which normally occurs during heating.

4. Frost protection or emptying the appliance for the winter

If you do not use the appliance during winter time, there are two ways to protect it from freezing:

a) Have the appliance connected to the electric current network and set the thermostat to F (frostprotection). Thus the temperature of the water is kept above the freezing point. The current consumption required for this is extremely low.

b) You have the possibility of disconnecting the appliance from the electric water supply (pull out plug) and of switching off the current supply for the pump. Empty water tank, open drain plug. Then open water tap to allow air to fill the lines. In case the water does not run out of the drain plug, blow into the opened tap until the water flows out by itself.

Caution! Make sure that the appliance is filled with water, see point 1 d) of the assembly instructions and instructions for use before resetting the appliance for operation.

Warranty

All boilers are checked carefully and have to be in perfect condition before leaving the plant. We grant 5 years warranty provided that the boiler has not been modified or meddled with. Warranty is not granted for damage caused by frost, by improper water pressure or by improper use. Warranty is granted by the manufacturer in form of a proper repair carried out free of charge. All other claims are excluded. Warranty can only be granted if the boiler has been sent to us together with the properly filled-in warranty certificate.

ELGENA · Margaretenplatz 2 A · D-81373 München · Telefon 089 – 77 47 17 · Telefax 089 – 725 10 92

Date of purchase: _____

Boiler purchased from the company: _____



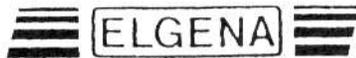
Do not dispose of electric units with household waste. Use an environmentally friendly recycling system to dispose of the unit, accessories and packaging.

160 mm

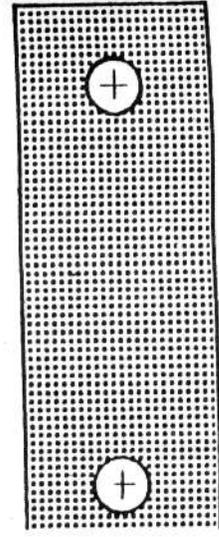
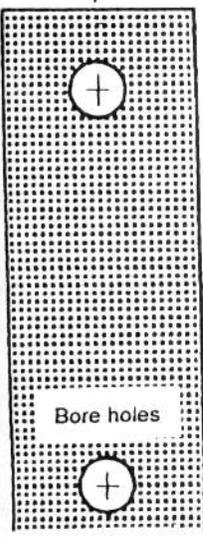
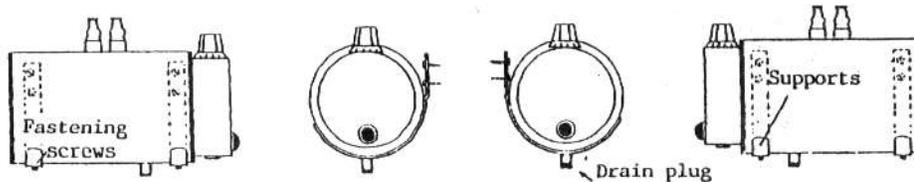
Assembly stencil



for



Boiler Typ KB 3



Hold this pattern to the wall where you wish to install the boiler. Mark the position of the bore holes.

Screw the support brackets to the wall. Place the boiler on the support brackets, the fastening screws of the boiler must be at the bottom, tighten fastening screws.

Caution! The boiler has to be installed in vertical position (the fastening screws must be at the bottom), otherwise damage and malfunction would occur. We recommend installing the boiler such that the thermostat is visible and easily accessible. The appliance can be attached to the wall with either its right or its left side or with its back, as you judge most convenient (see above figure).

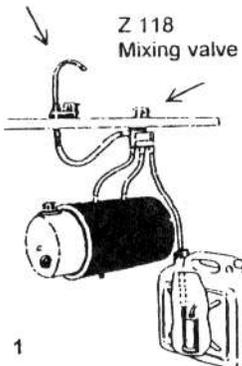
How to connect boilers

Connection to electric submergible pumps or hand pumps. **Make sure that there is no back pressure valve installed in either the pump or in the water pipe.**

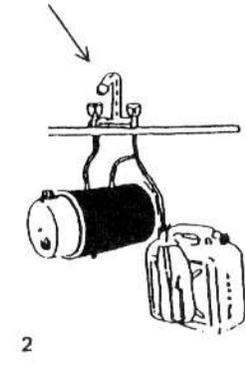
Connection to **pressurized water pumps**, to automatic pumps and to the regular water supply pipe.

Caution!
KB 3 is a low pressure boiler and may not be exposed to excessive pressure. It may only be connected to pressurized water pumps or to pressurized water supply unless corresponding fittings are used.

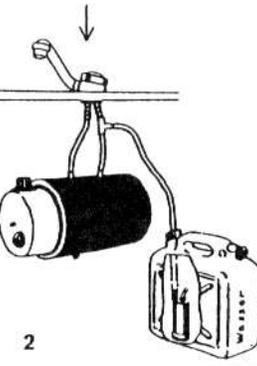
Z 114.2 Water tap with electric switch



Z 114.3 Mixing battery with electric switch



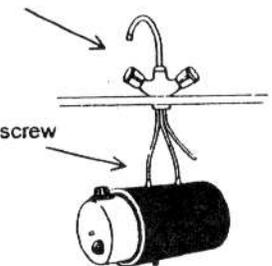
Z 122.2 Mixing tap with electric switch



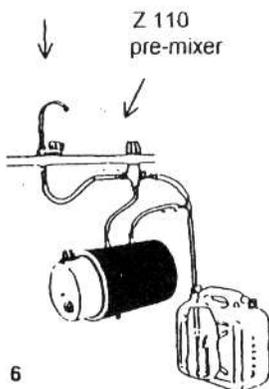
Connection with Z 012 low pressure mixing battery

Z 038 pinched screw connection

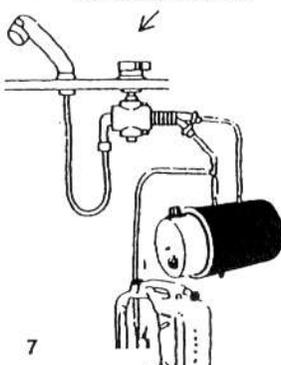
3 D



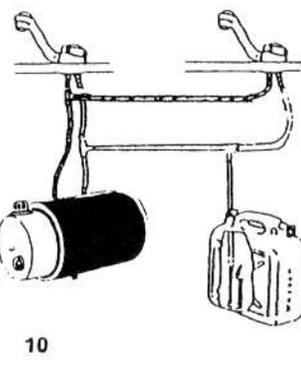
Z 114.2 Water tap with electric switch



Z 114.5 Shower set
Z 114.4 Mono mixer with electric switch

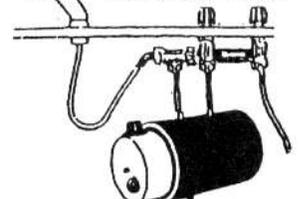


Do not use two outlet taps unless the supply lines are short.



Z 114.5 Shower set
open shower or open outlet

Z 116 low pressure pre-mixing battery with shut-off valve



If the boiler is connected to pressurized water supply, make sure that the outlet cannot be shut but be open.

5 D