

BAUER

Solar Systems

SOLAR DEVICE



INSTALLATION MANUAL

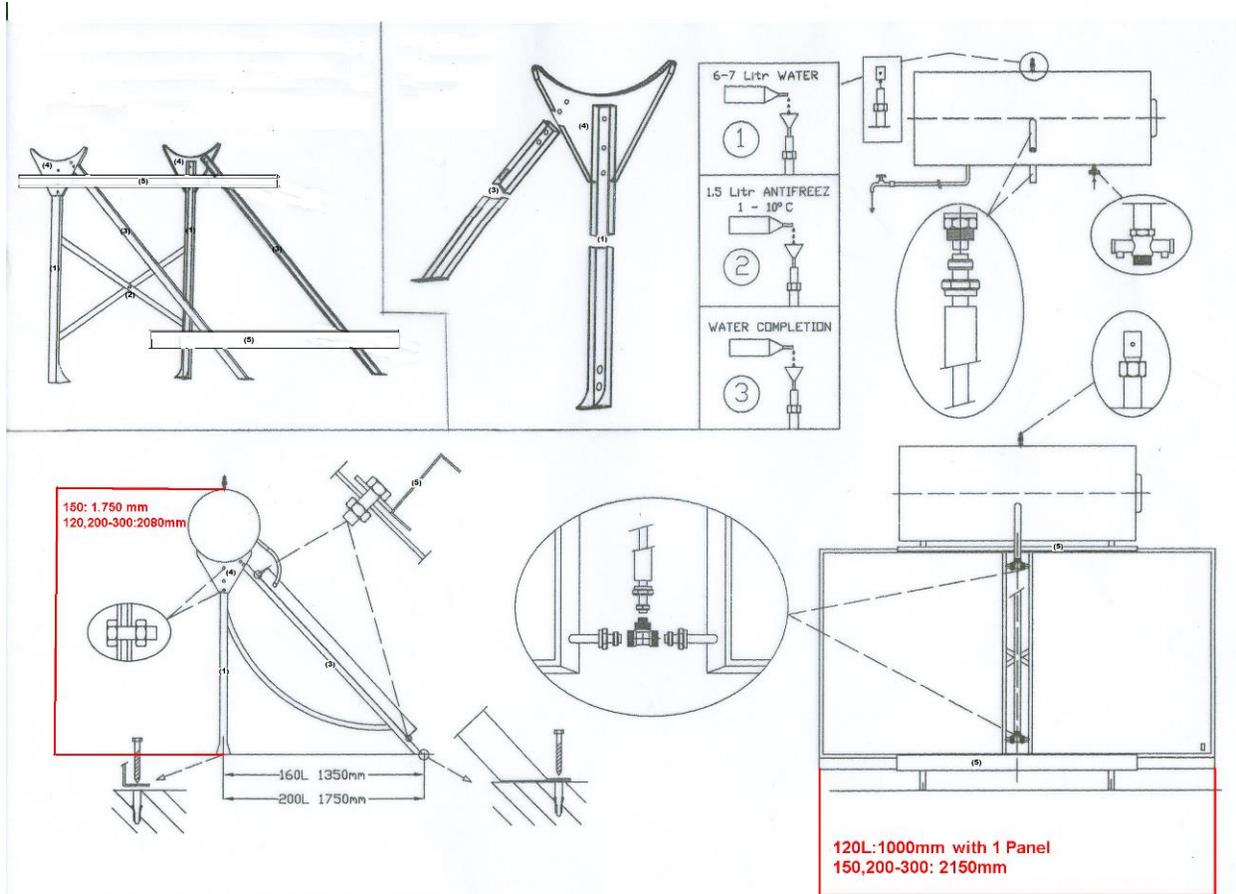
	<p> WARNING</p> <p>Read and understand this instruction manual and safety messages before installing, operating or servicing this water heater. Failure to follow these instructions and safety messages could result in death or serious injury. This manual must remain with water heater.</p>
--	--

Keep this manual in the pocket on heater for future reference whenever maintenance adjustment or service is required.



ATTENTION:

	Pressure-relief device is to be fitted in the installation, unless it is incorporated in the appliance.
	This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
	Children shall not play with the appliance.
	Cleaning and user maintenance shall not be made by children without supervision.
	the water may drip from the discharge pipe of the pressure-relief device and that this pipe must be left open to the atmosphere
	the pressure-relief device is to be operated regularly to remove lime deposits and to verify that it is not blocked
	a discharge pipe connected to the pressure-relief device is to be installed in a continuously downward direction and in a frost-free environment
	Disconnecting means must be incorporated in the fixed wiring, in accordance with the respective regulations
	Safety valve membrane: EVEM type 03, 10bar



THE SUPPORT BASE

The final form of the base is shown in drawing (1)

The base consists of the following parts:

1. Rear vertical legs in Pi-shape with bending at the bottom: 2 pieces.
2. Sheets slightly wrinkled across their middle for the cross section: 2 pieces.
3. Front legs in Pi-shape - are always longer from the vertical: 2 pieces.
4. Boards in Y shape for the installation of the boiler: 2 pieces.
5. Bars in Pi-shape for the retaining of the collectors: 2 pieces.

ASSEMBLING PROCESS OF THE BASE

1. Screw the two boards on the vertical legs.
2. screw together the two sheets of the cross section with a screw in their middle.
3. Screw the crosswise in two vertically (perpendicular P be both inward, he that the slot having the two boards are on the same side) drawing (2).

4. Screw the two front legs in the slot having the two boards (all P must be looking forward modes).
5. Screw one of the two gates P at the bottom of the oblique outriggers.
6. Tighten all the screws.
7. Place the collectors on the bottom bar of the base.
8. After you orient the base (the collectors to the south) screw the base to the floor (if straighten the legs back to the front), using the wall plugs and moly present in packaging.
9. Make sure all the screws are tightened and the base leveled.
10. System with two collectors, connect the two panels together by mechanical clamping T connection present in the package.
11. Place the pot in headboards of the base after the former have screwed Rakor 3/4 (provided) to the respective middle tubes with oblique tube is 3/4 to forward, to the side panels.
12. Screw one end of the plastic in the bottom T connection measure up tube 3/4 in the middle at the bottom of the boiler heater cut the tube and screw the Rakor.

The remaining piece of the tube would be screwed in the upper T connection and the corresponding oblique tube 3 / 4.13. Screwing the lock (provided) to the tube supply ½ the blue rosette at the bottom of the boiler heater, not tighten too much, then the locking screw a spherical knob, and then the water supply pipe. Then connect the consumption pipe in pipe 1/2 with the red rosette at the bottom of the boiler heater. Caution, not copper pipes to prevent electrolysis.

FILLING THE BOILER WITH WATER

1. Open and leave open any hot water tap in the house.
2. Open the spherical switch provider and let the boiler heater to be filled with water.
3. After filling, close the faucet left open.

FILLING THE CIRCUIT

Maximum inlet pressure 1MPa

1. Prepare a mixture of propylene glycol with water in a bucket.
2. Heat transfer medium Propylene glycol is used (**non-toxic**)
3. Propylene glycol must be admixed thoroughly with water, pouring into a bucket of propylene glycol and water mix well.
4. If you do not mingle very well, as heavier material will settle to the bottom of the panels so the solar panel does not work.
5. The circuit filling always be filled with the boiler heater full.
6. Fill the circuit by the tube 1/2 which is located at the top of the boiler heater.
7. The filling is considered finished when the overflow pipe and the level stays firmly packed.
8. Screw now the secure attachment.
9. Carefully check the connections for possible leaks.
10. The system is ready and began to work automatically.

CONNECTIONS OF THE ELECTRICAL RESISTANCE. (Cable replacement instructions)



CAUTION, turn the power off the board.

1. Remove the cap that covers the resistance by unscrewing the screws.
2. The thermostat connection is already executed by the manufacturer.
3. Pass the power cord through the hole in the cable gland located in the resistance cap.
4. Connect phase (brown to black wire) to the thermostat, marked **L**
5. Connect the neutral (blue wire) on the thermostat, marked **N**
6. Connect the ground (two color cable) to the corresponding screw flange resistance marked **ground**.
7. The thermostat is set at about 60, can be set at a different temperature. Do not set the thermostat above 75 degrees.
8. Screw the cap resistance.



Do not switch on the power when the boiler heater is empty.

REPLACEMENT OF MAGNESIUM BAR.

All solar water heaters have a magnesium rod placed in the boiler heater (resistance) to prevent electrolysis.

1. Turn off the power switch and empty the water from the boiler heater.
2. Unscrew the cap resistance.
3. Disconnect the cables.
4. Remove the thermostat by pulling carefully.
5. Remove the eight screws that secure the resistance.
6. Unscrew the magnesium rod (worn) is the resistance.
7. Insert the new rod by tightening the well.
8. Replace the resistance in the cauldron neck with new gasket (rubber).



CAUTION

Preserve the pre-existing position of resistance.
Replace the thermostat and cables as removed.
Fill the boiler heater with water.



CAUTION

THE MAGNESIUM BAR SHALL NECESSARILY BE REPLACED EVERY TWO YEARS.

Instructions for Draining the system:

Turning Off the Water Heater. If it is necessary to turn off the water heater on completion of the installation, such as on a building site or where the premises are vacant, then:

-switch off the electrical supply at the isolating switch to the water heater.

-Close the cold water isolation valve at the inlet to the water heater.

Solar Storage Tank Draining

To drain the solar storage tank:

1. Close all hot water taps.
2. Operate the relief valve release lever - do not let the lever snap back or you will damage the valve seat.
3. Operating the lever will release the pressure in the water heater.
4. Undo the joint at the cold water inlet to the solar storage tank and attach a hose to the water heater side of the union.
5. Let the other end of the hose go to a drain.
6. Operate the relief valve again.

This will let air into the water heater and allow the water to drain through the hose.

Warning:

the solar circuit may be under pressure. Take care when removing the solar circuit relief valve, as a sudden discharge of pressurized hot vapor may be experienced. This discharge will create a sharp sound of vapor being released.

Open the heat exchanger drain valve and remove the plug from the end of the hose. the closed circuit fluid will flood the hose.

Place the end of the hose into a container and drain the closed circuit fluid from the heat exchanger.

Note:

The heat exchanger can contain many liters of closed circuit fluid.

Contact Details:

BAUER HELLAS (Paterdis Dimitrios I.)

Chrysostomou Smyrnis 27 & Anexartissias, Zefyri, 13451, ATTICA

+302102621742

+302102322185

<http://bauerhellas.com>