

ELECTRIC HEATING ELEMENT WITH THERMOSTAT FOR CAPACITIVE WATER HEATERS

1500W, 2000W, 2500W

Intended use

Electric heating element with a thermostat for capacitive water heaters is intended to heat water for Domestic Hot Water (DHW) and Central Heating System (CH). It can be installed in any tank (with the exception of those made of stainless steel) which design (structure and dimensions) allows its installation.

Technical characteristics

The device consists of a 1500W, 2000W, 2500W heating element, an electronic thermostat that provides precise regulation of the temperature of the water in the tank, and a power cord with a universal plug. The illumination of the indicator LED, indicates the operation of the heater. The device is equipped with a single-use (non-resettable) thermal protection placed in the plug of the heating element, which will activate when the thermal fuse exceeds 90°C. In order to restore the device to full functionality, the intervention of a qualified manufacturer's service is necessary.

The device meets the safety requirements according to the standards PN-EN 60335 and PN-EN 55014.

Technical data

	unit	GB01		
Power	W	1500W	2000W	2500W
Voltage Rating	V~	230V/50Hz		
Rated current	A	6,5	8,7	10,9
Work environment		WATER		
Temperature control range		25°C – 70°C ± 3°C		
Connection cable with plug	mm ²	3 x 0,75	3 x 1,00	3 x 1,00
Length of connecting cable	mm	1500		
Spigot diameter (thread)	inch	1", 5/4", 6/4" (*)		
Protection class		CLASS I		
Protection degree		IP 44		
Weight	kg	0,56 - 0,60	0,62 - 0,66	0,64 - 0,68
Heating element length (L) **	mm	325	400	410

(*) Heaters with 1" thread are only available with a power of 2000W.

(**) excluding the casing

Install the device according to applicable regulations, standards and manufacturer's recommendations. Any incorrect and unintended use is prohibited.

Placement and Installation

- The heating module can be installed in both horizontal and vertical tanks, the design of which takes into account the possibility of installing the heating module and spaces where the temperature is not lower than 0°C and higher than 50°C;
- **The module cannot be installed in tanks made of stainless steel.**

Installation Requirements

- The electrical installation should be made in accordance with the current regulations and have an effective protective circuit;
- The heater casing must not be obstructed, covered or thermally insulated;

- The design of the tank should allow the heating element to be installed in the tank without collision;
- The heating element must not touch the internal parts of the tank;
- The diameter of the connection spigot, should be in accordance with the dimensions of the thread of the heating module (it is permissible to use reductions);
- The depth (length) of the connection spigot (socket), must be shorter than the length of the dead zone of the heating module (50mm);
- Install in the lower or middle part of the tank in a horizontal or vertical position (heating element upwards) in the place designated by the tank manufacturer;
- **The sensor tube must not come into contact with the heating element (recommended distance of about 10 mm).**

Installation and use

- When installing to a device already in operation, first empty the tank of water;
- Remove the plug that secures the connection spigot. In its place, screw in the electrical module;
- The heater should be sealed with tow (recommended) or other available sealing compounds for the installation site;
- Tighten the heater "with feeling" with a suitable wrench (not behind the casing);
- In the case of horizontal installation, the correct position of the heater is when the connection wire comes out of the housing downwards;
- After installing the heater, fill the tank with water and vent the installation. **In order to avoid corrosion of the heater plug, vent the coupler** (loosen the heater slightly so that the air comes out of the coupler in which the heater is installed, and then tighten the heater);
- Check the tightness of the plumbing connection at the installation site of the module;
- If the connection is not tight, drain the tank, reseal the connection, and then repeat the steps;
- Connect to electricity only after the tank is completely filled with water and vented;
- Set the required water temperature with the knob;
- Do not bend the heating element;
- During installation, avoid flooding the casing of the electrical module, as this may cause a short circuit in the electrical system or electric shock.
- To extend the life of the heater, it is recommended to install a **magnesium anode**.

Startup and setup

The indicator diode informs the user about the operation status of the heater. Lighting of the diode indicates the operation of the heater. The temperature setting is adjusted manually with a knob in the MIN - MAX range (25-70 °C). The controller maintains the set temperature (below the set temperature the controller turns on the heating device, and turns it off when the set temperature is reached).

Warnings and requirements

- All assembly and disassembly work must be carried out with the power supply disconnected;
- It is forbidden to use the device if the installation does not have a protective circuit;
- It is forbidden to use a faulty device;
- Do not allow flooding of the casing (electronic thermostat);
- It is forbidden to make any repairs to the device oneself;
- It is prohibited to use the module in tanks made of stainless steel;
- It is forbidden to connect the module to the electric power supply if the tank is empty or the heating element is not completely immersed in water;
- It is forbidden to install the heating module in equipment with another heat source, exceeding the temperature of the thermostat;
- It is forbidden to clean heating elements with strong chemicals or sharp tools;
- If the heater is malfunctioning or the power cord / plug is damaged, unplug the power cord from the socket and contact the Seller or Manufacturer (the heater is not suitable for use);
- It is required to clean the heating elements periodically from accumulated sediment. The frequency of cleaning depends on the hardness of the water present in the installation;

- It is advisable to check the operation of the device periodically and check the correctness of the operation of the heater and the plug with a protective pin;
- To completely disconnect the power supply, remove the plug from the socket;
- Do not switch on without water - the necessary condition for proper and long-term operation of the heater is complete immersion of the heating element in water (make sure that the tank into which the heater is installed is completely filled with water and the entire heating element is immersed in it);
- If the electric heater is not used for a long period of time, disconnect the power supply by removing the plug from the power socket

Exploitation not in accordance with the instructions and the performance of repairs by persons not authorized to do so may cause failure and void the warranty.

This equipment is not intended for use by persons (including children) with limited physical, sensory or mental abilities, or persons without experience or familiarity with the equipment, unless under supervision or in accordance with the instructions for use of the equipment given by persons responsible for their safety. Children should be watched to ensure that they do not play with the equipment.

Maintenance

Any maintenance work on the device should be carried out with the power supply disconnected.

Maintenance activities include:

- Carry out periodic maintenance, during which the heating elements should be cleaned of limescale. It obstructs the flow of heat and threatens to damage the heating element. The frequency of cleaning should be determined by your own observations, taking into account the hardness of the water present in the system. Do not clean the heater with strong chemicals, as well as with sharp tools;
- Dirty external surfaces should be cleaned with a damp cloth with mild cleaning agents;
- Strictly avoid getting the casing wet.

Free repair is not covered by damage:

- Mechanical;
- Caused by unauthorized chemicals;
- Caused by using, transporting, storing, or cleaning the heating element contrary to the operating instructions;
- Caused by handling the heating element in violation of generally accepted rules for the use of electric heating elements;
- Caused by contamination of the heating element with limescale or removal of limescale with chemicals not intended for this purpose;
- Resulting from the operation of the heating element in environments other than water, such as acid, air, etc., (the use of transformer oil or glycol-based antifreeze is permissible);
- Arising as a result of fortuitous cases, alterations, changes, repairs made in any way by an entity that is not the Guarantor;
- Detection of interference in any part of the heating element, e.g. opening of the thermostat box, etc.;
- Incomplete immersion of the heating element in water (cannot work in air).

selection of heater for tank *		heating time **	
Tank capacity	Heater power	40 °C	50 °C
up to 80L	1500W	1 hour 51 min. (for 80L)	2 hour 28 min (for 80L)
80L - 120L	2000W	2 hour 5 min. (for 120L)	2 hour 47 min. (for 120L)
120L - 200L	2500W	2 hour 47 min. (for 200L)	3 hour 43 min. (for 200L)
more than 200L	3000W	3 hour 29 min. (for 300L)	4 hour 39 min. (for 300L)

Detailed information (calculator) is available on the manufacturer's website.

* the given heater selection and heating time is an estimate.

** the initial temperature of water in the tank (t1) is 10°C (the heater is placed in the lower part of the tank).

Additional information

The product can not be treated as household waste. By ensuring proper disposal, you help protect the environment. For more detailed information on recycling of this product, please contact your local government representative, waste disposal service provider or the store where the product was purchased.

The manufacturer reserves the right to make technical changes of the products offered.



This symbol, placed on the equipment and/or accompanying documentation, indicates that used electrical and electronic equipment must not be disposed of with other waste. The product should be returned to a designated waste collection point, where it will be accepted without charge.

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