

BEFORE USING THE WATER HEATER FOR THE FIRST TIME, READ THIS USER'S MANUAL THOROUGHLY!

DEAR USER!

We congratulate you for purchasing of the instantaneous water heater «THERMEX STREAM».

Before choosing the concrete model of electric water heater, consult qualified electrician about technical possibilities of connection the electric water heater to your electric grid.

This manual covers the following models: THERMEX 350 STREAM, THERMEX 500 STREAM and THERMEX 700 STREAM.

The full name of the water heater could be found in the section «Manufacturer's warranty» and in the identification table on the water heater housing.

1. DESCRIPTION

Instantaneous electric water heater THERMEX STREAM (EWH) is determined for hot water production for everyday necessities. EWH should be exploited in the area with room temperature maintained.

2. MAIN TECHNICAL CHARACTERISTICS

	350 STREAM	500 STREAM	700 STREAM
Voltage, V	220 ± 10%		
Frequency, Hz	50 ± 1%		
Power, kW	3.5	5.0	7.0
Power modes, kW	3.5	2.0 + 3.0	3.5 + 3.5
Casing	Splash proof		
Power cord with plug	Yes	No	No
Weight, kg, not more	2	2	2
Working pressure			
Minimum water pressure, MPa	0.05		
Maximum water pressure, MPa	0.6		

3. DELIVERY SET

1. Instantaneous water heater – 1 piece.
2. User's manual – 1 piece.
3. According to concrete delivery, delivery set includes:
 - kitchen set (spout, insulating plates);
 - or shower set (shower head, shower head bracket, hose, insulating plates);
 - or combined set (spout, adapter, shower head, shower head bracket, hose, insulating plates) – 1 piece.
4. Packing – 1 piece.

4. DESCRIPTION AND OPERATING PRINCIPLE

Water is heated immediately, when flowing through the copper cylinder. All heating elements are placed inside the copper cylinder (Figure 4).

Figure 4: 1 - cold water inlet; 2 - hot water outlet; 3 – fixation holes; 4 – heat protector; 5 - copper cylinder with heating elements; 6 - connecting block; 7 - pressure-sensing device; 8 - cable clamp; 9 - switch.

The temperature adjustment in the outlet is performed by the regulation of its flow.

On the diagram (Figure 3) the dependence between the temperature difference in the inlet and outlet and the volume of water flow is shown.

The cold tap water temperature may alternate significantly within the year from 5°C to 20°C. It means that at the same EWH outlet water temperature in winter will be less than in summer. For the optimal flow, there are two shower

spraying modes. One mode is designed for using EWH in winter, another – in summer.

After the water was supplied to EWH and the minimum allowable pressure (0.05MPa) was set, pressure sensor will automatically switch on thermoelectric heating elements, which will be indicated by the light of the power-on button. If the water pressure in the inlet becomes lower than minimally allowable, pressure sensor will automatically switch off the heating elements, the lights will go out, the heating will stop.

Another security device is the heat protector, installed on the copper cylinder. It disconnects EWH from the power grid in case of the water overheat (**which is not considered as the defect**). After water cooling EWH will be automatically switched on.

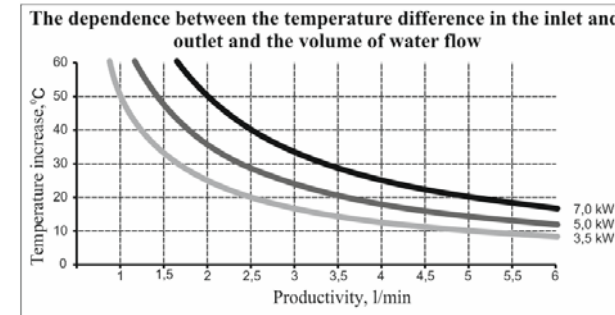


Figure 3

5. SAFETY RULES

Power cords, safety valves and switching systems must correspond to the capacity of the EWH.

Children should not be allowed to play with EWH. The EWH is not designed to be operated by people (including children) with physical, tactile or mental disorders, as well as people who cannot use the EWH, unless it is made under control and according to the Instructions of people responsible for the EWH security.

GROUND CONNECTION OF THE WATER HEATER IS NECESSARY!!

DO NOT:

- leave the plugged in EWH unattended;
- switch EWH, before installing it on the wall vertically and filling it with water;
- plug the appliance in and out with wet hands;
- use the spare parts, which were not recommended by the water heater manufacturer;
- use water with impurities : sand, corrosion, sludge;
- close the EWH hot water discharge and connect to it to any kinds of isolation valves;
- switch EWH with the frozen water inside.

6. INSTALLATION AND OPERATION RULES

Installation works must be performed by qualified specialists. During installation the following sequence of actions is recommended:

- a) Wall mounting of the water heater;
- b) Connection to the water mainline;
- c) Connection to the electric grid.

6.1. Wall Mounting

The EWH is installed on the wall vertically according to the shower nozzle or drain length as well as the attaching point of the shower nozzle supporting arm. Possible variants of the EWH Installation are given In Figure 1.

During installation the EWH must be installed in such a way that the water spray doesn't ingress its housing.

Put EWH on the wall using 2 screws (not included into set). Before putting on the wall:

- put down the upper cover of EWH (loosen the screws on the sideboards);
- mark hole locations on the back cover, do the holes in the wall and fix the EWH bottom in-place. Install the upper cover afterwards.

6.2. Connection to the water mainline

Connection diagram is given in Figure 2.

Figure 2: 1 – water heater (EWH); 2- cold water inlet pipe; 3- hot water outlet pipe; 4 – spout; 5 – adapter; 6 – hose; 7 – shower nozzle; 8- cut-off valve; 9- cold water main; 10 – shower nozzle bracket; 11- flow controller (tap).

Hook up the flow controller (11) (not included into set), which ensures the smooth adjustment of water supply, to the cold water inlet (2) – left pipe of EWH marked “Inlet”. Connect the flow controller (11) to the cold water inlet (2), using the copper pipe with 10-15 mm diameter or flexible connector. For to ensure long life of the water heater, use water purifying filter.

When torqueing connections on the EWH, it is necessary to hold the inlet (2) and outlet adapters (3) using the crescent wrench in order not to damage the internal connections of the metal parts of the water heater.

Connect the shower nozzle (7) using long flexible hose (6) or spout (4) with the hot water outlet (3) – right pipe EWH marked “Outlet”. For to connect to the hot water outlet (3) both shower nozzle (7) with flexible hose (6) and spout (4) at the same time use the adapter (5).

When connected, supply water to the EWH (1). Shut down the flow controller (11) after EWH is filled with water.

It is forbidden to put any isolation valves, which could bar free water flow, on the outlet.

It is forbidden to use the connecting pipes, which were used previously.

6.3. Connection to the electric grid.

In order to connect the EWH of the models THERMEX 500 STREAM and THERMEX 700 STREAM to the electric grid it is necessary to put down the upper cover of the water heater and connect the conductive electric cable to the terminal block on the EWH housing as follows: (6, Figure 4) according to electric scheme : L – “phase”, N – “null”, E – “earth”.

For connection we recommend to use a three-core cable (not delivered) with sectional area of each core not less than 4 mm² (for models THERMEX 500 STREAM и THERMEX 700 STREAM). Before starting the electric wiring Installation It Is necessary to cut off power from the power supply net to which the EWH Is connected. Firstly, the cable Is connected to the EWH and then to the switch. In order to disconnect the EWH from the power supply net one should use a two-pole switch with plug fuse, with gap between the disengaged contacts not less than 3 mm at all poles, 30A for THERMEX 500 STREAM and 40A for THERMEX 700 STREAM (not included into the delivery set). Before putting the EWH into operation it is necessary to fix the cover.

The EWH model THERMEX 350 STREAM has an integrated plugged cable. In order to connect the given model to the electric grid it is enough to put the cable plug into the socket, which must have an earth connector and bear capacity of 3.5 KW. If plugged cable of the THERMEX 350 STREAM model is damaged, on order to avoid the danger, it should be replaced by the manufacturer or by his agent or by any other qualified person. The socket must be located in the place without water ingress. The electric wiring, security and switchgears must stand current load not less than 30A for THERMEX 500 STREAM, not less than 40A for THERMEX 700 STREAM and not less than 20A for THERMEX 350 STREAM.

It is forbidden to use water heater without grounding!

7. OPERATION

Switch on the EWH power supply inserting the power cord plug into the socket or switching on the multipolar switch.

Softly turn the cold water supply tap handle (11, Figure 2). Press the network switch button on the front plate. In this case the light indication of the network switch button will switch on (9, Figure 4).

Wait for 15-20 sec until the outlet water temperature becomes stable. If the EWH outlet water is very cold, reduce the water supply, if very hot - it is necessary to increase the water supply.

The two-button EWH models have different power modes. For THERMEX 500 STREAM the left button stands for the 2.0 kW mode; the right - for 3.0 kW, totally - for 5.0 kW. For THERMEX 700 STREAM both buttons separately correspond to 3.5 kW, totally - to 7.0 kW. The user may choose any suitable power mode.

After use of the EWH turn the water heater off by pressing the network switch button/buttons. The water heating will stop; the light indicators will go out. With the cork cut off the cold water supply to the EWH.

If you are not going to use electric water heater in a short term, pull power cord plug out of the socket (THERMEX 350 STREAM) or switch off the multipolar switch (THERMEX 500 STREAM, THERMEX 700 STREAM).

8. TECHNICAL MAINTENANCE.

Keep the EWH surface safe from damages, blows und influence of active solvents.

Wipe the dirty EWH surfaces with soft damp cloth moistured in soapy water. Do not use here any abrasive or chemically active detergents.

Rub the sprinkle shower and kitchen nozzles from the dirt regularly.

All works for the EWH maintenance must be done after it was disconnected from the electrical network.

9. UTILIZATION

Provided that the Installation, operation and maintenance rules are observed and the consumed water quality complies with the current standards, the manufacturer sets the 3 years service life time of the EWH.

All water heater components consist of materials which In case of necessity allow ecologically sustainable utilization to be carried out according to norms and rules of the buyer's country of residence and where the EWH is being used.

The manufacturer has the right to introduce changes into the design and characteristics of the water heater without preliminary notification.

MANUFACTURER GUARANTEE

The manufacturer sets the water heater guarantee period for 2 years.

The guarantee period starts from the EWH date of sale. In case the date of sale on the shop stamp is absent or has been corrected the guarantee period starts from the date of the water heater production mentioned on the nameplate on the appliance housing. The serial number consists of 13 numbers. 3rd and 4th numbers of the serial number – year of production, 5th and 6th – month of production, 7th and 8th - day of production.

The claims during the guarantee period shall be accepted only in the presence of this manual with marks of the sales company and the nameplate on the EWH housing.

The guarantee covers only the water heater used. The guarantee for installation and putting into operation is provided by the installation company.

Repairs or replacement of the components and accessories during the guarantee period shall not prologue the total EWH guarantee period.

The warranty obligations cease to be in force in case:

- if user violates protective measures and Installation, connection, operation and maintenance rules stated In this manual;
- mechanical damages due to negligent storage, transport and installation;
- damages due to water freezing;
- premature wearing of the EWH and choking due to the use of the water with mechanical and chemical impurities (it is necessary to use the filter);
- when EWH is used for the commercial purposes.

All the models of instantaneous water heater THERMEX STREAM are ISO certified and conform to the requirements of GOST R 52161.2.35-2008, GOST R 51318.14.1- 2006.

Certificate of conformity ROSS RU.XII28.B18575; TC RU C-
RU.AB87.B.00005.

Manufacturer: "EDISSON Co", INN 7810252827, 187000, Russia, 44,
Moskovskoe Shosse, Tosno, Leningrad Region.

Contact Manufacturer's service center concerning claims, warranty and after
sales service:

In other regions contact the store and customer care department ,indicated by
the seller, concerning claims, warranty and after sales services:

SALE NOTE

Model _____	Serial number _____
Selling Date of sale dd/mm/yyyy _____	
Seller: _____	
Signature _____	Stamp _____

The water heater is fully packaged. I do not have any complains about the
configuration. I have received the user's guide with the necessary notes. I
acknowledged the rules of operation and accept the warranty terms and
conditions.

Buyer's Signature: _____