

ENGLISH


Description and Technical Characteristics

The water heater belongs to the category of pressurized water heaters and is designed for hot-water supply of various premises having one or more draw-off points and a cold water mainline with operating pressure within 0.05 MPa to 0.6 MPa.

Water heaters have an internal tank with bioglass/glasslined coating.

Series	ER, ES
Capacity	30-40-50-60-70-100-120-150 l
Voltage	220-230 V
Wattage	1.5 kW
Power cord with plug	+
Pipe fitting diameter	½"
Protection against thermal expansion	+
Protection against overheating	+
Mounting options	vertical only (V) or horizontal only (H)
Light indication	+
Temperature regulator	+
Protection class	IPX4
Warranty on internal tank	5 years

Delivery Set: water heater, safety relief valve, operations manual, warranty coupon, packing.

 The manufacturer reserves the right to introduce changes into water heater design and characteristics without prior notice.

Operation and Installation

All plumbing and wiring works having to do with water heater installation, putting in operation and repair shall be performed by skilled technicians. Plumbing supply fixtures and fittings shall comply with water mains specifications and have the necessary compliance certificates.

Water heater installation and operation shall be performed under observation of the following rules:

- not to operate the water heater without grounding;
- not to operate the water heater without a safety valve;
- not to connect the water heater to the electric grid if the former is not filled with water;
- not to drain water from the water heater when it is connected to the electric grid;
- not to perform maintenance operations with the water heater connected to the electric grid;
- not to perform water heater service maintenance using spare parts other than recommended by the water heater manufacturer;
- to protect the water heater against mechanical impurities present in water by installing standard domestic water purifying filters;
- not to use water from the water heater for cooking purposes.

All the regulations pertaining to electric appliances operation effective in your region, as well as the requirements to water mains connection, shall be adhered to. Do not block water drain. The electric water heater shall be grounded; the ground wire shall be insulated and easily accessible.

To avoid causing property damage to user and/or third parties in the event of water heater malfunction, the electric water heater shall be installed in areas provided with floor waterproofing and sewerage drain; items susceptible to water damage shall never be placed under the electric water heater. When the electric water heater is installed in unprotected premises, a safety tray having sewerage drain shall be installed under the electric water heater. The installation surface shall be capable of bearing the weight of water-filled water heater. The water heater shall be installed in an area with room temperature maintained.

It is recommended to install the water heater as close to the place of hot water consumption as possible so as to minimize pipeline heat losses. To enable technical maintenance, the water heater shall be installed in such a manner so that the clearance from its cold/hot water pipe fittings/ protection cover plate is at least 0,5 m. Water heater installation diagram is shown in Figures 1 - 2.

Figures 1-2 : 1 – electric water heater, 2 – hot water outlet, 3 – cold water inlet, 4 – drain valve, 5 – safety valve, 6 – sewerage drain.

The safety valve supplied with the water heater must be installed on the water heater cold water inlet. The safety valve shall be opened regularly so as to remove sediment and prevent seizure. Cold water shall be supplied to the water heater through a regular domestic water purifying filter (e.g. mesh-type filter) installed before the safety valve, so as to avoid blockage of both the internal tank and the safety valve. Blockage of the safety valve may result in breakdown of the latter, which, in its turn, may lead to disturbance of water heater normal operation. In the process of water heater operation, water can drip from the safety valve discharge pipe to relieve excessive pressure, which takes place in order to ensure water heater safety. This discharge pipe shall be installed in a freeze-free environment, always facing downwards, and be kept open to the atmosphere.

Water drainage from the safety valve discharge pipe to the sewage line shall be provided.

If the water mains pressure exceeds 0.6 MPa, an appropriate pressure-reducing valve (not included with the water heater) shall be installed before the safety valve.

Before connecting the water heater to electric grid, make certain that its parameters correspond to those of the water heater. Before connecting the water heater to the electric grid, water tank shall be filled with water. The technician performing installation is to explain how to operate electric water heater without being exposed to any danger.

Children shall be advised not to play with the electric water heater.

The electric water heater is not intended to be operated by persons (including children) with limited physical, tactile, or mental abilities, as well as by persons unfamiliar with electric water heater operation, with the exception of cases when this is performed under supervision of, or according to the instructions by, the people held responsible for electric water heater safety.

Description

Thermostat enables water temperature adjustment up to +70°C. The adjustment is performed with the help of temperature dial located on the water heater cover. The thermostat also contains an overheat protector, which disconnects heating element from electric supply when water temperature exceeds 85°C. (In the process of operation electric water heater housing may heat up). A pilot lamp on the device protective cover indicates electric water heater operation mode: it glows when the water is being heated, and it goes out when a set temperature is reached. A magnesium anode serves to neutralize electrochemical corrosion impact on the internal tank surface.



Activation of thermostwitch is not a defect of the electric water heater, and its return to normal position shall be done by user independently

The drain valve shall be installed in accordance with Figures 1-2 in order to facilitate water drainage when performing technical maintenance.

Technical Maintenance

The water heater technical maintenance shall be performed by a certified technician in compliance with the instructions set forth in this manual. In case any difficulty arises in electric water heater operation, or in the event of water heater malfunction, contact a licensed technician. Regular technical maintenance will help extend the water heater life.

In order to provide for long service of the electric water heater, magnesium anode shall be replaced, and tube heating element shall be descaled at least once a year.

If the power cord gets damaged, it must be replaced by a new one supplied by the manufacturer or service center.

Water drainage. Switch the water heater off with the help of switches on the water heater body, and then remove the electric cord plug from the wall outlet. To avoid burns caused by hot water while it is drained from the tank, open the hot water at the tap, wait until cold water starts running from it and leave it open. After that, shut off cold water supply to the tank. Turn safety valve handle to drain water from the tank to the sewerage.

Disposal



All the components of the water heater are made of materials allowing, when necessary, its environmentally safe recycling, which shall be performed in compliance with norms and regulations effective in the user's country of residence.

Warranty

The manufacturer has determined the water heater warranty term of 2 years, with warranty for integral components and assembly parts being as follows:

- water reservoir (internal tank) – see table ;
- other components (heating element, thermostat, pilot lamps, sealing gaskets, temperature indicator, safety valve) – 2 years.

The warranty term starts from the date of electric water heater sale. In case of absence or correction of the date of sale and seller's stamp, the warranty term is reckoned from water heater manufacture date, which is indicated on the rating plate attached to the water heater body. Any claims over the warranty period are accepted on condition of availability of this manual complete with the seller's marks and the rating plate on the electric water heater housing.

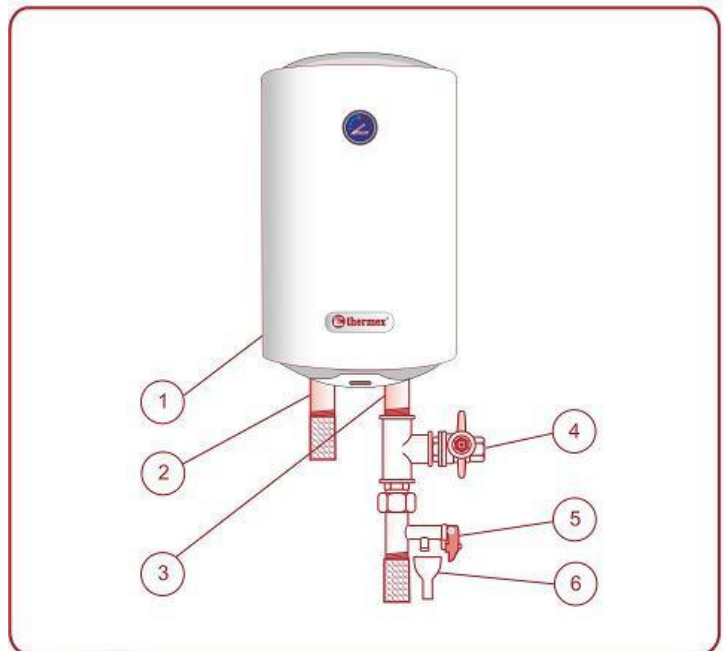
This warranty covers the water heater only. Responsibility for observation of the installation rules lies on the purchaser (in case of self-arranged installation) or on the installer.

When performing water heater installation and operation, the customer shall follow the requirements ensuring fault-free operation of the water heater throughout the warranty period:

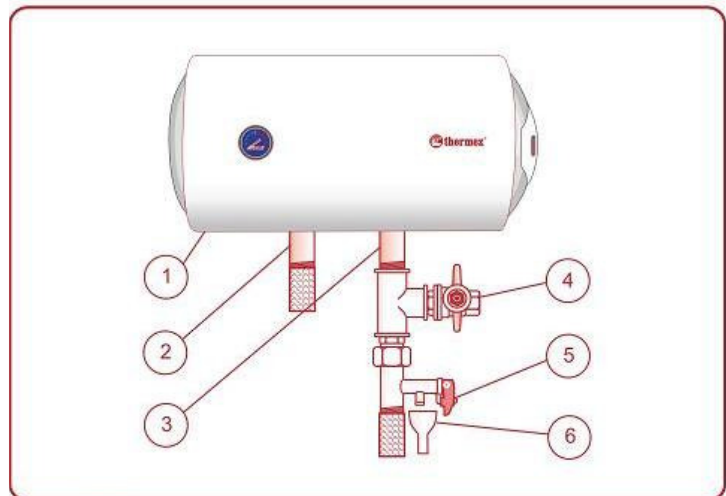
- observe safety precautions and the rules of installation, connection, operation and maintenance set forth in this manual;
- preclude mechanical damage resulting from negligent storage, transportation and mounting;
- preclude device damage caused by water freezing inside the water heater;
- for heating in the water heater, only use water which is free from mechanical and chemical impurities;
- operate electric water heater with reliably working safety valve from the electric water heater delivery set.

The manufacturer shall not be held responsible for any drawbacks resulting from the user violating the rules of water heater installation, operation and technical maintenance set forth in this manual, including those instances when such drawbacks arose because of inadmissible parameters of the networks (electric and water mains) in which the electric water heater is operated and through third-party intervention.

Repair or replacement of integral components and assembly parts within the warranty term does not prolong the warranty term for the electric water heater as a whole. The electric water heater installation, electrical connection and initial operation shall be performed by a qualified expert.



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Service centers

LATVIA

Riga Latvian territory	SIA „Misabil” Melnisla str. 23, Riga, LV-1046 +371 67 617 623 +371 29 525 423 misabil@inbox.lv
Valmiera Limbaži, Aloja, Valka, Cēsis, Smiltene	SIA „Stars Serviss” Fabrikas str. 1, Valmiera, LV-4201 +371 64 226 051 stars@mikronet.lv
Liepāja Grobiņa, Aizpute, Skrunda, Ventspils, Saldus, Kuldīga, Pāvilosta, Priekule	SIA „Būvsabiedrība 3NV” Kūģinieku str. 5, Liepāja, LV-3401 +371 63 426 448 +371 63 426 449 ep@ff-group.lv

ESTONIA

Estonia	OU SEVI Kodukaubad Pallasti 16, Tallinn, 11416 +372 63 665 25 +372 65 472 58 +372 50 656 77 viktor@sevi.ee
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LITHUANIA

Lithuania	JSC Baltic Continent P.Lukšio g. 23, Vilnius, LT-09132 +370 68341398 +370 68503355 +370 68333835 info@bcsc.lt
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Importer

SIA „GT Company LV”

A.Deglava str. 66, Riga, LV-1035, Latvia

1 Model	2 Serial number
3 Date of sale	
4 Seller	
5 Seller's stamp	

* Filled by the seller

- Model** / Modell / Model / Модел / Модель / Model / Ynri / Modelis
- Serial number** / Fabrikationsnummer / Numār de serie / Серијски број / Sérijny číslo / Serijsko število / Серијний номер / Serijski broj / Číslo série / Seerianumber / Серийный номер / Sorozati szám / Серијалық номері / Sérijas numurs / Serijinis numeris / Numer seryjny
- Date of sale** / Verkaufsdatum / Data vânzării / Датум продаје / Datum predaji / Datum prodaje / Дата продажу / Datum prodeje / Müügi kuupäev / Дата продажи / Eladási dátum / Сатылу күні / Pārdošanas datums / Pardavimo data / Data sprzedaży
- Seller** / Verkäuferfirma / Vānžātor / Фирма-продавец / Firma-predavač / Firma-prodajalec / Фирма-Продавец / Firma-prodavas / Prodávající firma / Müüja-firma / Фирма - продавец / Eladó - cég / Сатушы - фирма / Uzņēmums - tirgotājs / Moné - pardavēja / Firma sprzedająca
- Seller's stamp** / Siegel der Verkäuferfirma / Ștampila vânzătorului / Печат фирме - продавца / Pečat' firmy - predavača / Pečat firme-prodajalca / Печатка фирми - продавца / Pečat firme-prodavsca / Različko prodávající firmy / Müüja-firma pitsat / Печать фирмы - продавца / Eladó-cégnek pecsétje / Сатушы-фирма мөрі / Uzņēmuma - tirgotāja zīmogs / Įmonės-pardavėjos antspaudas / Pieczątka firmy sprzedającej
- To be filled out by seller** / Wird von der Verkäuferfirma ausgefüllt / A se completa de către vânzător / Попълнява се фирмом - продавцом / Vyplňuje firma-predavač / Izpolni firma-prodajalec / Заповнюється фірмою-продавцем / Popunjava se firmom prodavsca / Vyplňuje se prodávající firmou / Tāldab müüja-firma / Заполняется фирмой-продавцом / Eladó - cég tölti ki / Сатушы-фирма толтырады / Alzplida uzņēmums-tirgotājs / Užpildo įmonė-pardavėja / Wypełnia firma sprzedająca
- Hand-in date** / Datum der Aufnahme / Data primirii / Датум примања / Datum postupa / Datum prijema / Дата приёму / Datum primanja / Datum prijmu / Vastuvõtu kuupäev / Дата приема / Atvétel dátuma / Қабылдау күні / Pieņemšanas datums / Priėmimo data / Data przyjęcia
- Hand-out date** / Datum der Übergabe / Data eliberării / Датум враћања / Datum vydají / Дата выдачи / Datum vraćanja / Datum vydání / Väljastamise kuupäev / Дата выдачи / Kiadás dátuma / Бери күні / Išsiegšanas datums / Išdavimo data / Data oddania
- Defect** / Mangel / Defectul / Дефект / Defekt / Defektus / Ақауы / Defekts / Defektas / Wada
- Work performed** / Erfüllte Arbeit / Lucrarea efectuată / Извршен сервис / Spīnena prāca / Izvršeno delo / Виконана робота / Izvršen servis / Spīnēnā práce / Teostatud töd / Выполненная работа / Végzett munka / Орындалған жұмыс / Izpildītais darbs / Atliktas darbas / Wykonana praca
- Repairman** / Erfüllt von / Specialist / Majstop / Majster / Master / Майстер / Stručno lice / Mistr / Meister / Мастер / Mester / Шебер / Meistras / Meistras
- Service center stamp** / Siegel des Service - Zentrums / Ștampila centrului service / Печат сервисног центра / Pečat servisneho centruma / Pečat servisnega centra / Печатка сервисного центра / Pečat servisnog centra / Različko servisního centra / Teeninduskuse pitsat / Печать сервисного центра / Szolgáltató központ pecsétje / Қызмет көрсету орталығының мөрі / Servisa centra zīmogs / Serviso centro antspaudas / Pieczątka serwisu naprawczego
- To be filled out by service center** / Wird von dem Mitarbeiter eines Service-Zentrums ausgefüllt / A se completa de către centrul service / Попълнява се сервисном центром / Vyplňuje servisny centrum / Izpolni servisni centar / Заповнюється сервісним центром / Popunjava se servisnom centrom / Vyplňuje se servisním centrem / Tāldab teeninduskusku / Заполняется сервисным центром / Kitölti a szolgáltató központ / Қызмет көрсету орталығы толтырады / Alzplida servisa centras / Užpildo serviso centras / Wypełnia serwis naprawczy

Warranty cards



1	Model
2	Serial number
3	Date of sale
4	Seller

5

Seller's stamp

6 To be filled out by seller

7	Hand-in date
8	Hand-out date
9	Defect
10	Work performed
11	Repairman

12

Service center stamp

13 To be filled out by service center



1	Model
2	Serial number
3	Date of sale
4	Seller

5

Seller's stamp

6 To be filled out by seller

7	Hand-in date
8	Hand-out date
9	Defect
10	Work performed
11	Repairman

12

Service center stamp

13 To be filled out by service center



1	Model
2	Serial number
3	Date of sale
4	Seller

5

Seller's stamp

6 To be filled out by seller

7	Hand-in date
8	Hand-out date
9	Defect
10	Work performed
11	Repairman

12

Service center stamp

13 To be filled out by service center



1	Model
2	Serial number
3	Date of sale
4	Seller

5

Seller's stamp

6 To be filled out by seller

7	Hand-in date
8	Hand-out date
9	Defect
10	Work performed
11	Repairman

12

Service center stamp

13 To be filled out by service center