

Installation and operating instructions for the sauna water heater

v. 2019-02



NOTE!

Please read these instructions before installing and operating a sauna water heater.

These instructions describe the main parameters and design, as well as operational requirements and recommendations of the manufacturer for a sauna water heater.

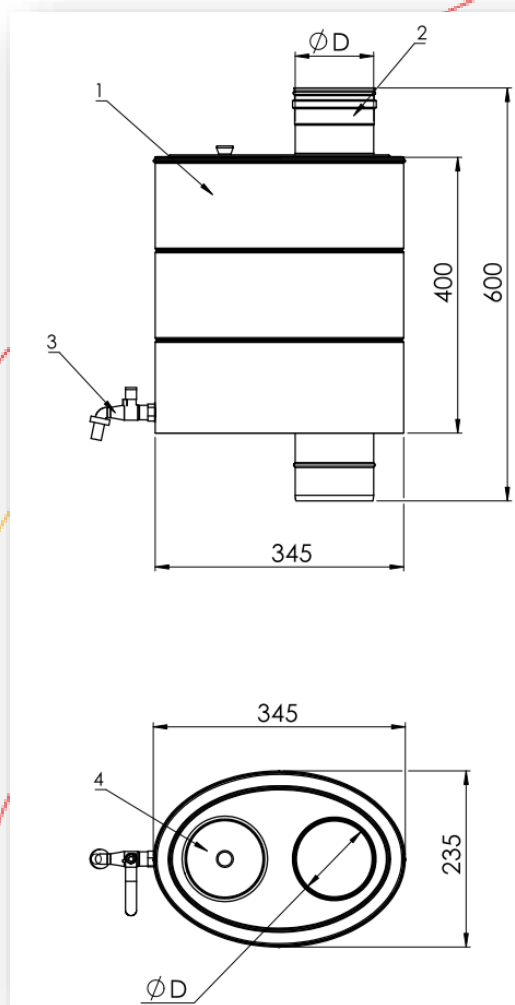
1. Application

A sauna water heater is used to prepare warm water for the sauna. The water is heated up using the heat of the combustion products coming from a sauna stove, thus increasing the efficiency of a sauna stove. A sauna water heater is installed in the vertical section of a chimney. When a sauna stove is operating, the water in the water tank heats up from the hot chimney element passing through the water tank. Water heated up in the sauna water heater is used to prepare warm water after mixing it with an appropriate amount of cold water. A sauna water heater can be used with various types of sauna stoves. If the connection diameters of a sauna stove and a sauna water heater differ, the corresponding increaser elements from one diameter to another can be used for the connection. The diameter of the combustion products outlet in the sauna stove cannot exceed the diameter of the sauna water heater connection.

2. Product design description (see Figure 1)

The product consists of an oval water tank (1) and a chimney element (2) passing through it to remove combustion products. A tap (3) is installed in the lower part of a tank to discharge the water, while an opening with a lid for water replenishment (4) in the upper part.

Figure1



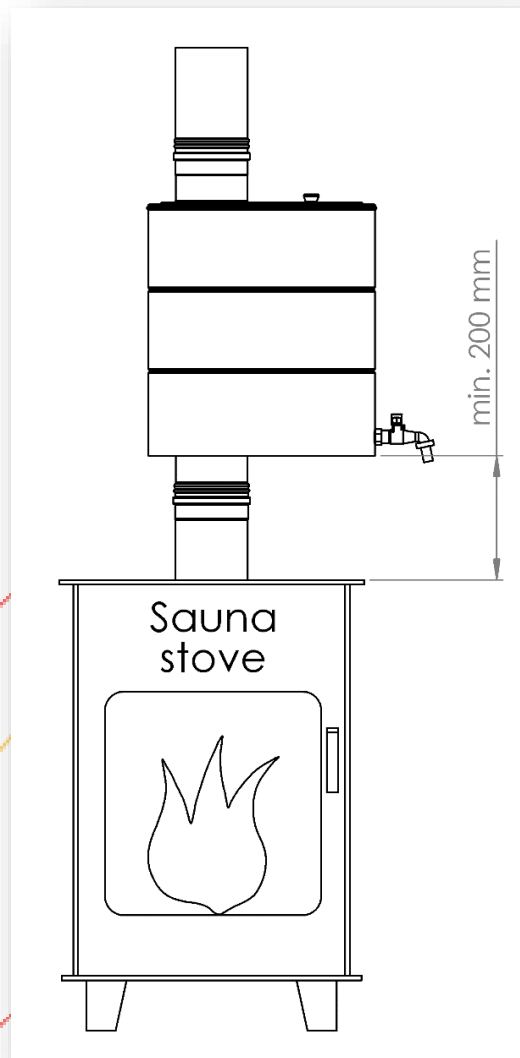
3. Technical data

Tank volume, L		21
Chimney dimensions, mm	Height	600
	Diameter	•110-150
Tank dimensions, mm	Height	400
	Diameter	235x345
Weight, kg		3.5

4. Sauna water heater installation

- 4.1. A sauna water heater is installed in the vertical part of the chimney not less than 200 mm from the bottom of a water tank to the top of a sauna stove (or stones) (see Figure 2).
- 4.2. The following chimney elements are installed on the sauna water heater.

Figure 2



5. Sauna water heater operation

- 5.1. A sauna water heater can be handled by the adults who have read these instructions. People should be instructed and warned of the potential risk of burns by hot water, water vapour or hot surfaces.
- 5.2. When a sauna stove is operating, the water in the tank can boil up. Therefore, all safety measures must be taken to avoid burns caused by the boiling water and possible contact with the human skin.
- 5.3. The surface of the sauna water heater can become hot during operation. Hence, protection against accidental contact between human skin and a sauna water heater must be provided.
- 5.4. When a sauna stove is operating, at least one-third of a water tank must be filled with water. If there is less water, a tank must be replenished.
- 5.5. The water level in a full tank should be about 30 mm below the lid as the heated water is expanding.
- 5.6. During operation, a tank must be covered with a lid. All safety precautions must be taken when removing a lid to prevent burning with water vapour.
- 5.7. When the sauna is not used, water must be discharged from a water tank.

6. Hazard analysis and its elimination

Hazard	Causes	Possible remedies
The water in a tank boiled up	Too little water in a tank. Long heating up time of a sauna stove.	Fill a tank with water. If a tank is full, discharge some boiling water through the tap and fill with cold water.
Fumes in the room	Leaking chimney joints. A chimney is full of soot.	Seal joints. Remove soot from a chimney.

7. Safety technical requirements

The following is prohibited:

- To operate a sauna water heater without or with less amount of water than specified in paragraph 5.4.
- To leave water in a tank during winter in unheated facilities.
- To fill the tank with cold water if the sauna stove was heated up when the tank was empty, and a chimney was hot.
- To touch hot surfaces of the sauna water heater.

8. Product kit

- Sauna water heater - 1 pc.
- Lid - 1 pc.
- Operating Instructions - 1 pc.

9. Guarantee commitments

- 9.1. A 2-year guarantee is applied to the product.
- 9.2. Guarantee period starts from the day of the product selling. During the guarantee period, if significant product quality defects have been observed, we will replace a defective product by a new one free of charge.
- 9.3. The guarantee does not apply to the defects caused by the following:
 - 9.3.1. Failure to comply with the requirements of these installation and operating instructions and recommendations.
 - 9.3.2. External factors that are not related to the manufacturer (mechanical damage, chemical factors, etc.).
 - 9.3.3. Use of the product for any other than its intended purpose.
 - 9.3.4. Incorrect chimney or liner maintenance. Soot fire in a chimney or a liner.
- 9.4. The guarantee shall not be applied if a possibly defective product was deliberately disassembled until it was inspected by the seller's representatives in the operation location.
- 9.5. If you think that the product is defective, please contact the seller.