

## SKAMET WATER BOILER

### Installation and User Manual

#### 1. Intended Use

The manufacturer confirms that the water boilers carry the **CE marking** and are manufactured in accordance with the standard **EN 15332:2007**.

The Skamet water boiler is designed for heating domestic water using an external heating device (e.g. sauna stove, cooker or boiler). The boiler operates on the principle of natural circulation.

⚠ Boilers made of carbon steel are not intended for storing drinking water. It should also be taken into account that carbon steel boilers are not internally coated and may cause rust-coloured water.

Any use that differs from the intended purpose is considered improper use. Regular maintenance is required for the safe and proper operation of the boiler.

#### 2. General Information

Standard water boilers are empty inside and the water inside them is heated by natural circulation.

When the heating device is fired, water begins to circulate in the system:

- hot water rises upwards
- cold water moves downwards

Closed water boilers connected to a closed system operate under pressure. The boiler is designed for long-term operation at a mains water pressure of up to **3.5 bar**.

If the pressure is higher, a pressure reducing valve must be used.

### 3. Special Features of Stainless Steel Boilers

All boilers must be grounded and the grounding must be checked. For this purpose, each stainless steel water boiler operating in a closed system is equipped with a grounding bolt or terminal.

It is important that the installation and grounding of the boiler are carried out by a qualified specialist who verifies after installation that the grounding complies with the requirements.

The voltage potential must not exceed **2 volts**. It should also be noted that the neutral terminal is not a grounding connection.

If the boiler has been installed by an unqualified person without proper training, the manufacturer's warranty becomes void.

All our stainless steel water boilers are equipped with a **magnesium anode**. It must be checked at least once a year (more often if necessary). If the anode is worn (only the connection rod remains and the magnesium layer has been consumed), it must be replaced with a new one.

When connecting pipes to a stainless steel water boiler, the first fittings must be made of stainless steel.

### 4. Important Safety Requirements

- Installation must be carried out by a qualified specialist.
- Stainless steel water boilers must be grounded.
- The system must be equipped with a safety valve (not included).
- The boiler must not be used empty.
- The installation room temperature must not fall below **0 °C**.

⚠ Incorrect installation or lack of maintenance may result in a hazardous situation.

### 5. Installation

Install the boiler as close as possible to the water consumption point. The recommended distance from the heating device is up to **3 metres**.

The most efficient installation is considered to be:

- horizontal distance up to **120 cm**
- vertical height starting from **180 cm**

Recommended pipe diameter:  $\frac{3}{4}$ "

The boiler is secured with two mounting bands which must be tightened firmly using the supplied nuts.

The distance between the mountings may be adjusted according to the installation conditions, but the weight of the boiler must be evenly distributed and must not be concentrated only on one side or in the centre.

The installation room must not freeze.

## **6. Connection and Operating Principle**

The system operates on the principle of natural circulation:

- heated water moves upwards
- cooler water flows back to the heating device

In the event of overpressure, excess pressure is released through the safety valve.

Recommended operating pressure: up to **3.5 bar**.

## **7. Operation**

Optimal water temperature: **55–75 °C**.

At temperatures above **80 °C**, intensive limescale formation may occur.

When using a new carbon steel boiler, rust-coloured water may appear during the initial period of use – this is a temporary phenomenon.

⚠ The boiler must not be cleaned with chemicals.

## 8. Maintenance

- Flush the boiler at least once a year.
- In the case of stainless steel boilers, check the magnesium anode at least once a year.
- The maintenance interval depends on water quality and the intensity of use.

## 9. Warranty

The warranty is valid for **24 months** from the date of sale provided that the boiler has been installed correctly and used for its intended purpose.

The warranty does not apply to:

- failures caused by incorrect installation
- damage caused by overpressure
- damage caused by chemicals or electrochemical effects
- damage caused by external influences

⚠ When submitting a warranty claim, the boiler must remain in its operating position until the warranty specialist arrives. If the boiler has been disconnected, it is not possible to determine warranty validity.

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