



## Electric boiler for water heating



The electric boiler is a well-established heating system solution. A key advantage of electrically produced energy is its ability to regulate the electrical grid load when needed. In grid fault situations, the electric boiler can be switched on or off by Fingrid when participating in the frequency regulation market. Participation in the reserve market provides capacity compensation from Fingrid.

In the resistance boiler method, hot water is produced by heating the boiler water with metallic resistance elements that convert electrical energy into thermal energy. The boiler output can be adjusted by switching resistance elements on and off, as well as by regulating the output of individual elements.

The electric boiler is an excellent choice as a primary or secondary heat source, enabling optimization of heating costs by utilizing spot electricity prices and Fingrid reserve market compensation.

- Over 30 years of experience in electric resistance-heated pressure equipment and boiler systems
- Standard design values: 16 bar(g), 204 °C; also available with higher or lower design values
- Design and manufacturing in accordance with PED 2014/68/EU
- Suitable for industrial use; can be connected directly to district heating networks or hot water systems
- Manhole included as standard
- Standard power range: 500–5,000 kW; available up to 80,000 kW on request
- Compact design — no chimney required, significantly easier environmental permitting
- Very low noise level

Water boiler	500kW	1000kW	1500kW	2000kW	2500kW	3000kW	3500kW	4000kW	4500kW	5000kW
Length/mm	3160	3160	3160	3160	4550	4550	5600	5600	6980	6980
Width/mm	1515	1515	1915	1915	1915	1915	1915	1915	1915	1915
Height/mm	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560
Weight empty/kg	2390	2510	2690	2810	3690	3920	4050	4370	5580	6020
Weight full/kg	4270	4390	4570	4690	6470	6700	7550	7870	9960	10390

*\*Indicative dimensions. Dimensions do not include valves or instruments.*

*\*Dimensions do not include the control or electrical cabinet, which can be placed separately.*