**HOT WATER BOILER**

Hot water boiler – type series HWE

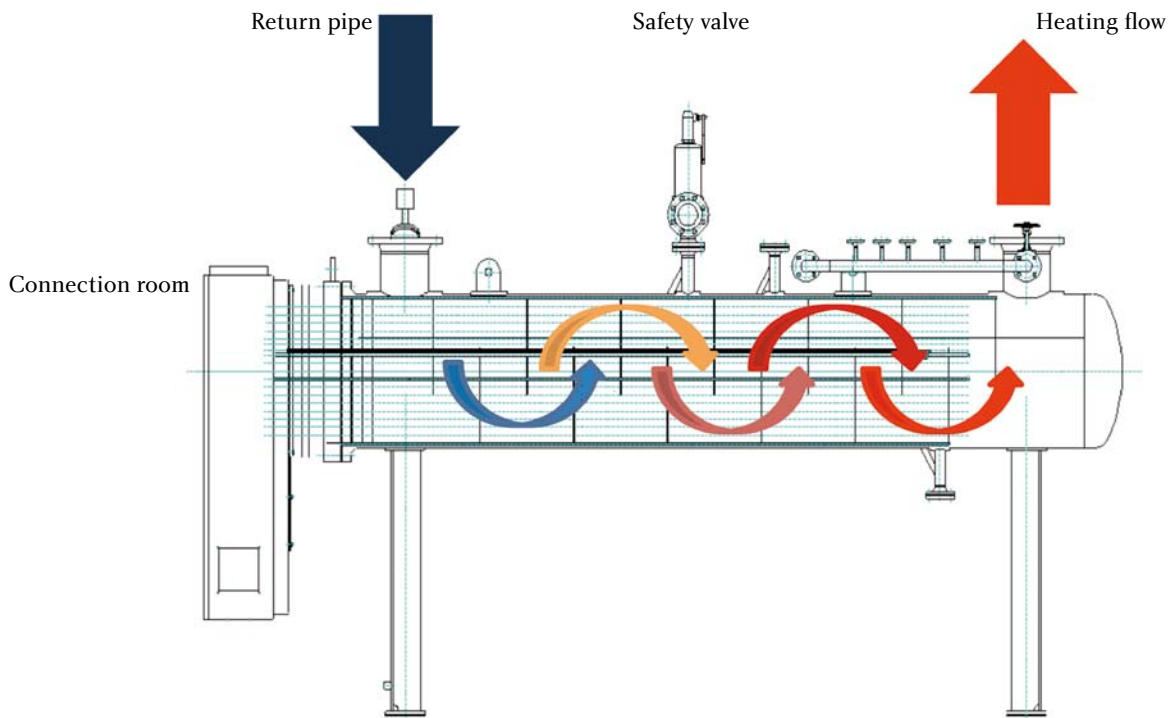
The compact hot water boiler of type series HWE were designed to heat large water volumes in a constant controlled flow. The hot water boiler are suited as consumers for mains stabilisation, as autonomous calorifiers without local emission sources, and as a means to secure the district heating supply. Your advantage: The hot water boiler can be directly integrated into the district heating mains. The area of application comprises all control range products: Secondary control range (SRL), minute reserve (MRL)

Properties:

- ▶ Infinitely variable output control, combination of variability in stages or infinitely in case of large outputs
- ▶ Boiler generates directly heated supply water
- ▶ Large heat transfer surfaces, minute surface load
- ▶ No special requirements on water quality
- ▶ Direct integration into direct heating mains
- ▶ No separate heat exchanger required
- ▶ Unsupervised operation: available according to EN 12953 (TRD 604) (72 hour control interval) (BoB 72)
- ▶ High redundancy due a variety of tubular heaters
- ▶ Robust and maintenance-free design

Functional principle

In the calorifier of the hot-water generator, water is heated directly by a number of electrical tubular heaters. Inside the tubular heater, the electrical energy is converted into heat by the heating resistor.



Technical data

Power range:	1 to 5 MW
Electrical connection:	690 V/50 Hz/3 ph
Calculation pressure:	up to 30 bar
Calculation temperature:	up to 250 °C

Manufacturing standards

Pressure Equipment Directive (PED) 97/23/EC
EN 12953 / EN 13445 / AD-2000

Your advantages:

- ▶ Economic and technical safety due to proven quality (see references)
- ▶ No large conversion measures generally required due to compact design
- ▶ Low investment costs, fast amortisation
- ▶ High efficiency (>99%)
- ▶ High availability (optional: additional reserved power)
- ▶ Ad-hoc use due to short response times