Boiler replacement station BA-HTA

Suitable for:

A compact boiler replacement station for decentralized drinking water heating using the flow principle. It replaces conventional gas boilers and efficiently uses the existing heating energy to produce hot water. The station can be flexibly connected to various heat sources – buffer storage tanks, district heating, combined heat and power plants, or central heating systems.
Thanks to the thermostatic temperature controller, the system operates without external energy – reliably and with low maintenance.

- **Thermostatic temperature controller:** Constant warm drinking water preparation without electrical energy.
- **Flexible variant:** Available with drinking water inlet either at the top or bottom, depending on the structural conditions.
- **Unregulated heating connection:** Offers simple and flexible connection options.
- **Differential pressure regulator:** Stabilizes differential pressure in primary circuit and ensures constant flow control.
- **Protection and comfort:** Includes water hammer damper for a secure water supply.
- **Surface mounting with cover:** White covering in RAL 9016.
- **Stainless steel piping:** Robust, corrosion-resistant pipes (18x1 mm).

Domestic hot water preparation
The drinking water is heated using the flow principle through a stainless steel plate heat exchanger only when it is needed. The thermostatic temperature controller ensures that the hot water temperature remains constant regardless of the amount of tapped water, the heating water temperature or usage intervals. An integrated differential pressure regulator stabilizes the pressure in the heating system and ensures a constant flow rate. The station can be connected to heating systems with buffer storage tanks as well as directly to a secondary district heating network or a combined heat and power plant. A universal installation section for cold water and heat meters is integrated into the hard foam insulation box. The underfloor heating is controlled by a thermostatic temperature regulator, which ensures a constant and comfortable temperature.

We recommend the additional installation of thermostatic mixing valves to avoid temperature fluctuations in the hot water outlet.

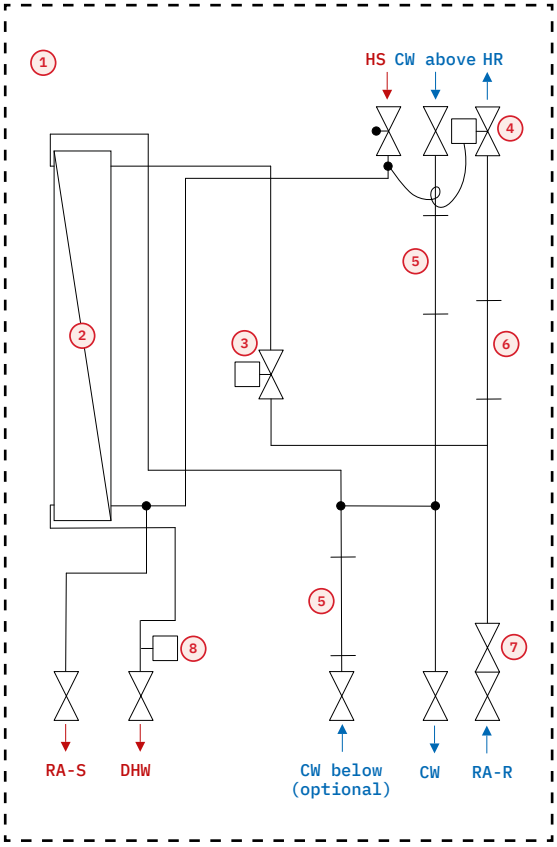
TECHNICAL DATA	
Device dimensions (WxHxD):	422 x 724 x 140 mm
Dimensions with ball valves (WxHxD):	422 x 630 x 140 mm
Pressure rating:	PN 6
Heating water supply temperature:	max. 90 °C
Drinking water setpoint temperature:	30 - 60 °C
Cold water pressure:	2,0 bar
Connection dimensions:	Heating DN 20, ¾" intern. thr. / Drinking water DN 20, ¾" intern. thr.

PERFORMANCE EXAMPLE: HEAT EXCHANGER				
HOT WATER CAPACITY:	M (36 KW)		XL (51 KW)	
Supply / Return temperature primary:	60 / 21 °C	60 / 17 °C	60 / 21 °C	60 / 17 °C
CW inlet/ HW outlet temperature:	10 / 50 °C	10 / 45 °C	10 / 50 °C	10 / 45 °C
DHW tap capacity max.:	13 l/min	15 l/min	18 l/min	21 l/min
Pressure loss DHW:	155 mbar	200 mbar	210 mbar	280 mbar
Pressure loss Heating *:	345 mbar	265 mbar	345 mbar	310 mbar
Heating flow rate primary:	840 l/h	720 l/h	1020 l/h	960 l/h

* without cold water meter or heat meter

(at 2 bar cold water pressure and 350 mbar heating)

ORDER NO.	
2250011	Cold water connection at the bottom, surface-mounted, copper plate heat exchanger, hot water capacity M
2250013	Cold water connection at the bottom, surface-mounted, copper plate heat exchanger, hot water capacity XL
2250111	Cold water connection at the bottom, surface-mounted, stainless steel plate heat exchanger, hot water capacity M
2250113	Cold water connection at the bottom, surface-mounted, stainless steel plate heat exchanger, hot water capacity XL
2250012	Cold water connection at top, surface-mounted, copper plate heat exchanger, hot water capacity M
2250014	Cold water connection at top, surface-mounted, copper plate heat exchanger, hot water capacity XL
2250112	Cold water connection at top, surface-mounted, stainless steel plate heat exchanger, hot water capacity M
2250114	Cold water connection at top, surface-mounted, stainless steel plate heat exchanger, hot water capacity XL



SCHEMATIC	
1	Base plate
2	Plate heat exchanger
3	Thermostatic temperature controller for drinking water
4	Differential pressure regulator
5	Cold water meter fitting piece G¾" - 110 mm
6	Heat meter fitting piece G¾" - 110 mm
7	Strainer insert DN 20 Heating circuit return
8	Water hammer damper