

Flat HIU station BE-FNE

The flat HIU station offers an efficient solution for decentralized drinking water preparation combined with electronic reheating. It brings together *step a valve* technology with an electronically controlled instantaneous water heater to ensure a hot water temperature that is accurate to the degree.

The compact design and high-quality hard foam insulation provide a good level of insulation and enable a space-saving, sustainable solution.

Suitable for:



- † **step a valve stepper motor valve:** Precise control of hot water preparation using the flow principle. Minimizes energy losses and prevents the formation of Legionella bacteria.
- † **Electronic instantaneous water heater:** Reheating with precise temperature control from 20-60 °C.
- † **Energy efficient:** Operation with low heating flow temperatures (35 - 40°C), optimized for heat pumps with a high COP value for maximum efficiency.
- † **Hard foam insulated box:** With excellent thermal insulation for energy-saving operation and reliable protection.
- † **Protection and comfort:** Includes drinking water priority circuit and water hammer damper for a secure water supply.
- † **Insulated cold water pipes:** Prevents heat transfer and increases energy efficiency.
- † **Stainless steel piping:** Robust, corrosion-resistant pipes (18x1 mm).
- † **Low-profile design:** Compact depth of 130 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. A sensor based on the vortex principle monitors the temperature and flow. A controller uses a *step a valve* step motor valve to regulate the necessary heating energy in order to minimize circulation losses and legionella formation. The plate exchanger is not kept warm.

In addition, a universal installation fitting of 110 mm for the cold water meter and another universal installation fitting of 110 mm for heat meters up to 1,5 Qn are integrated into the insulation box.



Image includes expansion modules

ORDER NO.

3210004	Flush-mounted, copper plate heat exchanger, instantaneous water heater 13 kW
3211004	Flush-mounted, copper plate heat exchanger, instantaneous water heater 21 kW
3210104	Flush-mounted, stainless steel plate heat exchanger, instantaneous water heater 13 kW
3211104	Flush-mounted, stainless steel plate heat exchanger, instantaneous water heater 21 kW
3210014	Surface-mounted, copper plate heat exchanger, instantaneous water heater 13 kW
3211014	Surface-mounted, copper plate heat exchanger, instantaneous water heater 21 kW
3210114	Surface-mounted, stainless steel plate heat exchanger, instantaneous water heater 13 kW
3211114	Surface-mounted, stainless steel plate heat exchanger, instantaneous water heater 21 kW

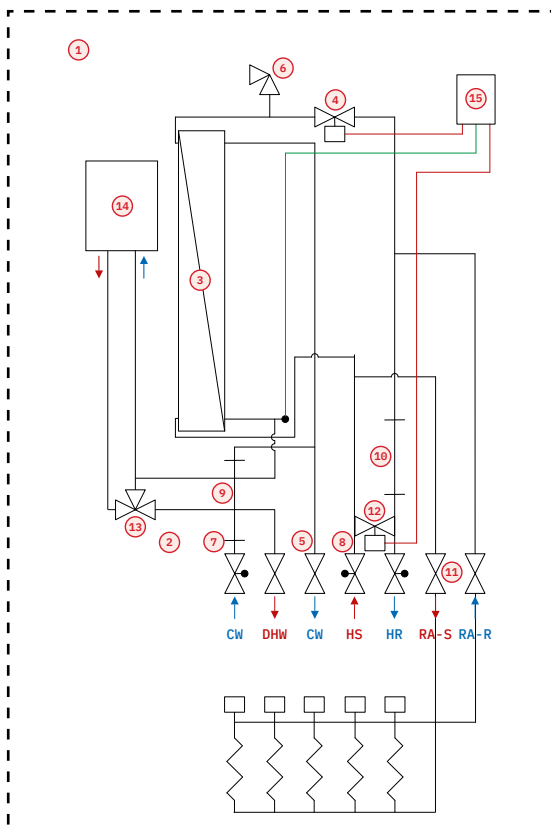
TECHNICAL DATA - FLAT HIU STATION

	HEATING PRIMARY BUFFER STORAGE	HEATING SECONDARY UNDERFLOOR HEATING	DRINKING WATER
Pressure rating:	PN 6	PN 6	PN 10
Max. temperature:	90 °C	60 °C	75 °C
Connection dimensions:	DN 25	DN 20	DN 20
Thread:	G1" internal thread	G¾" internal thread	G¾" internal thread
Dimensions (WxHxD):	Flush-mounted: 803 x 1298-1471 x 130-175 mm / Surface-mounted: 825 x 930 x 140 mm		
Niche size (WxHxD):	Flush-mounted: min. 823 x 1318-1491 x 135-180 mm		

TECHNICAL DATA - INSTANTANEOUS WATER HEATER

	PREHEATING	E-REHEATING	MIXING TEMPERATURE	
Supply primary:	38 °C	-	-	
Heating volume flow:	1250 l/h	-	-	
Power:	24,1 kW	13,5 kW	-	
DHW:	15,0 l/min	10,0 l/min	15,0 l/min	18,7 l/min
DHW temperature:	33 °C	52 °C	45 °C	38 °C
DW temperature:	10 °C	33 °C	-	
Total power:	-	-	37,6 kW	
Pressure level heating/sanitary:	PN 6 / PN 10			
Max. heating temperature:	90 °C			
Electrical connection for electric IWH:	3 ~/ PE 400 V AC 20 A, 13,5 kW			
Minimum cable cross-section:	2,5 mm² at 13,5 kW			

CONTROLLER	END CUSTOMER MENU (SIMPLE)	TECHNICIAN MENU (EXPERT)
DISPLAY	Time & date	Measured values or hydraulic diagram
SETTINGS	- Time & date - Daylight saving time - Night setback time for standby	- Hot water temperature - Maintenance temperature station - Commissioning assistant

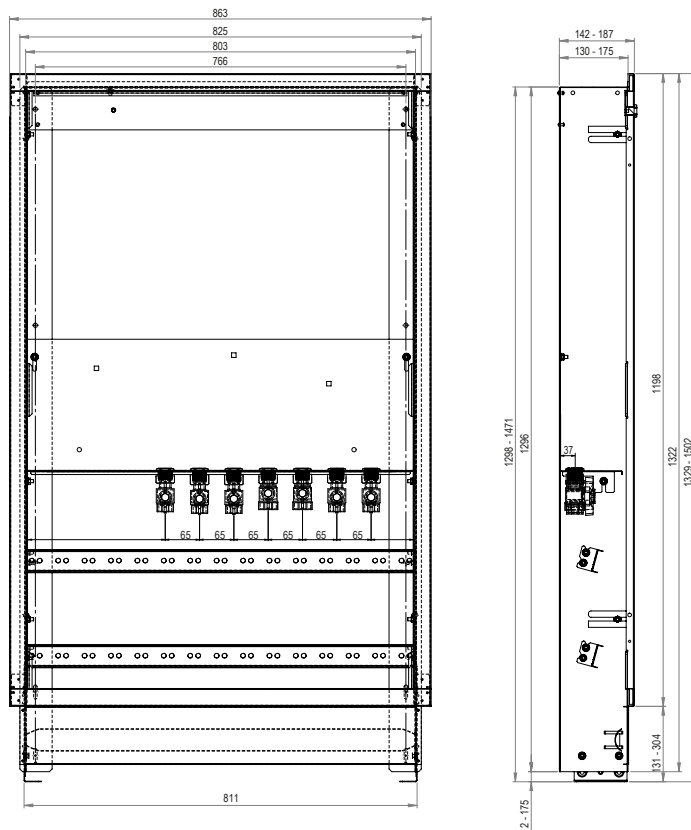


SCHEMATIC

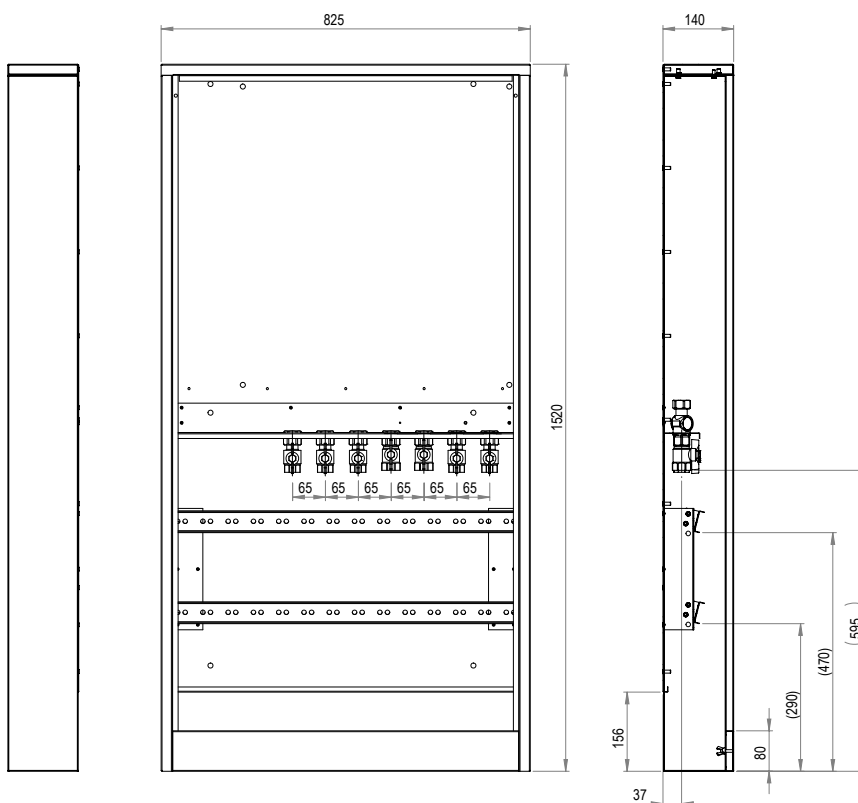
1	Built-in cabinet
2	Connection rail with ball valves
3	Plate heat exchanger
4	step a valve stepper motor valve (drinking water)
5	Cold water outlet
6	Ventilation and drainage
7	Strainer insert CW (optional)
8	Strainer insert HS (optional)
9	Cold water meter fitting piece G¾" - 110 mm
10	Heat meter fitting piece G¾" - 110 mm
11	Underfloor heating outlet
12	Temperature maintenance valve (bypass) with actuator
13	Hot water mixing valve
14	Reheater
15	Controller

DIMENSIONS FOR INSTALLATION

FLUSH-MOUNTED



SURFACE-MOUNTED



EXPANSION MODULES & ACCESSORIES



ORDER NO.

1000100 Module S1

Strainer insert

Strainer insert for removing dirt particles in the system, with a pressure loss of 80 mbar. Optimal protection for the entire system thanks to reliable filtering.



ORDER NO.

1000105 Module VR

Volume flow controller

Dynamic volume flow controller for hydraulic balancing. Externally adjustable, DN 15, adjustment range up to 1330 l/h, K_{vs} 2,7. Ensures stable flow rates under changing load conditions.



ORDER NO.

1000120 Module ZV

Zone valve

$G\frac{1}{2}$ " zone valve with the option of integrating an actuator ($M30 \times 1,5$ mm), mounted secondarily in the radiator circuit. It enables precise control of the heating circuit and offers flexibility in room temperature regulation.



ORDER NO.

3702B - 3712B Floor manifold VA-FBif

For 2-12 circuits

Set consisting of supply and return bars, each with a $G\frac{1}{2}$ " fill and drain valve. Soundproofed installation, with labeling stickers and adjustment instructions.



ORDER NO.

1003L eco-STA-L

Electrothermal actuator

For controlling the floor heating circuits at the manifold.

▲ Note: Have us complete the wiring for the station to avoid self-assembly and missing components. Custom designs available on request.



ORDER NO.

1011/1015 TT-KL6 / TT-KL10

Base station

Base station for regulating the temperature for 6 or 10 zones. Connection for up to 15 or 18 actuators and 6 or 10 room control units. Ideal for the central control of complex heating systems.