



and microprocessor regulated controller

- ✓ controlled by stepper motor valve hot water preparation in the flow principle
- ✓ temperature provision valve integrated with actuator
- ✓ cold water pipes insulated against heat input
- ✓ additional heating circuit with one heat meter installation path for floor distributor / radiator heating
- ✓ piping in stainless steel 18 x 1 mm
- ✓ low profile design 130 mm

DHW heating in the flow principle:

The domestic hot water is heated in the flow principle only during the request via a stainless steel plate heat exchanger. A temperature and flow sensor according to the vortex principle detects the temperatures and flows. The controller regulates the necessary heating energy for the plate exchanger by means of a **step a valve** stepper motor valve. The plate exchanger is not kept warm. Unnecessary circulation loss is avoided and increased legionella formation is effectively prevented.

4-wire system:

For the consumption recording of underfloor heating / radiator heating there is an extra heat meter installation section integrated in the cabinet.

Controller	Customers menu (simple)	Installer menu (expert)
Display	Date & time	Measured data or hydraulic diagram
Setting	- Date & time - Summer time - Night lowering time for storage	- Hot water temperature - Provision temperature station - Commissioning assistant - Circulation mode (optional)

Specifications			
	Heating primary	Heating secondary	
	Buffer tank	Heating	Drinking water
Pressure rating:	PN 6	PN 6	PN 10
Max. temperature:	90 °C	90 °C	75 °C
Connection dimensions:	DN 25	DN 20	DN 20
Connection threads:	1" female thread	¾" female thread	¾" female thread
Dimensions (WxHxD):	UP: 710 x 1275-1375 x 130-180 mm / AP: 730 x 1400 x 140 mm		
Space size: (WxHxD)	UP: min. 730 x 1310-1455 x 132 mm		

Example performance heat exchanger	
DHW performance:	M (51 kW)
Supply/return temperature primary:	50 °C / 20 °C
DCW entry / DHW outlet temperature:	10 / 45 °C
DHW tap load max.:	15 l/min
Pressure drop DHW:	135 mbar
Pressure drop heating *:	350 mbar
Flow primary:	1100 l/h


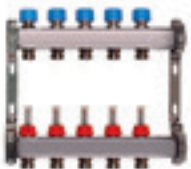


** without heat meter

(at 2 bar DCW pressure and 350 mbar HS)



Options

Module S1 - strainer insert	Module W - water damper	Module Z - circulation
		
Item No. 1000100	Item No. 1000122	Item No. 1000107
Strainer (80 mbar pressure drop)	The water damper prevents water hammer and thus damage to components within the station. This is recommended e.g. for single-lever mixers or solenoid valves in drinking water installation	A drinking water high-efficiency circulation pump Wilo Nova Z15 with backflow preventer enables an internal circulation. Fully assembled with stainless steel piping 18x1mm. 

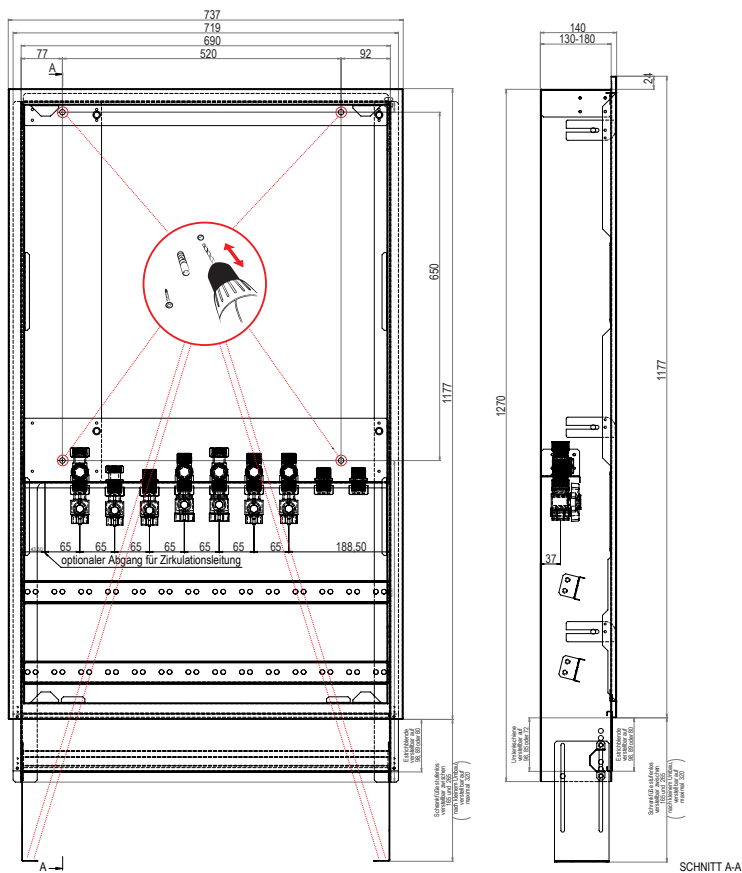
⚠ Note: When installing domestic hot water heating, the applicable standards, the recognized rules of technology and the local regulations must be observed! In particular, the hygiene regulations according to DVGW worksheet W551 must be observed when operating a circulation system. DHW stations are small systems according to DVGW worksheet W551, if the pipe content in each drinking water pipeline after the station does not exceed 3 liters. Please check whether the use of a system-specific safety valve / expansion vessel in the circulation circuit is necessary! The installation of the safety valve and the required blow-out line must be implemented on site.

Module STV	Manifold VA-FBif for 2 - 12 circuits	Electrothermal actuator type eco-STA 230 V
		
Item No. 1000116	Item No. 3702 - 3712	Item No. 1003L
A static volume flow controller installed in the primary return. (Station output) - with measuring socket DN 20, setting range up to 4860 l/h, 5.10 Kvs	Stainless steel manifold packages for underfloor heating include supply manifold and return manifold, each with two 1/2" outlet connections with female threads for air vents and fill/drain valves. The manifold is assembled in noise reducing brackets. Delivered in a box with stickers and manual.	For the regulation of the individual underfloor heating circuits at the manifold VA-FBif. 

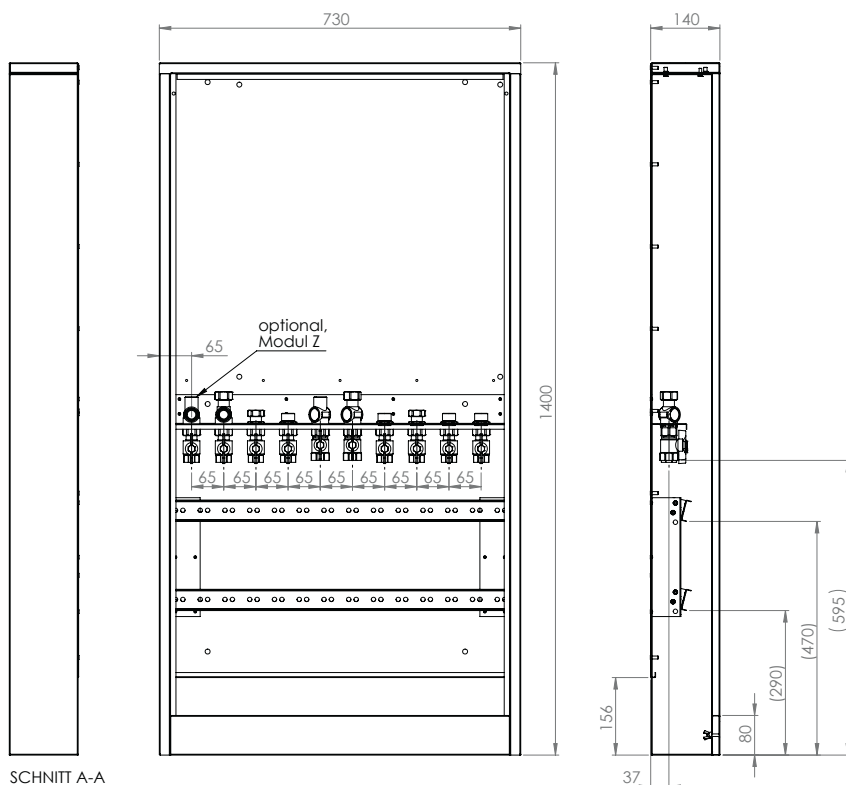
⚠ Note: Let us finish wiring the station for you! Your big advantages: No on-site assembly required, no missing components, wide range of accessories. The station is delivered completely in a packaging with identification of the respective building project, floor and apartment. Custom-made products are available upon customer request!

Module D	Module ISO WP
	
Item No. 1000105	Item No. 1000152
An externally adjustable dynamic volume flow controller combined with a differential pressure controller built into the primary return. (Station output) - with measuring socket DN 15, setting range up to 1330 l/h, 2.7 Kvs	Insulating cover for BM-WP

Dimensions flush-mounted



Dimensions on-wall mounted



Selection criteria:

1. Installation:

2. PHE*:

DHW performance

XL
extra large

Item No.
1220004

Item No.
1220104

Item No.
1220014

Item No.
1220114

DHW station BM-WP 4

Flush-mounted

On-wall mounted

Cu. soldered PHE

S.S. soldered PHE

Cu. soldered PHE

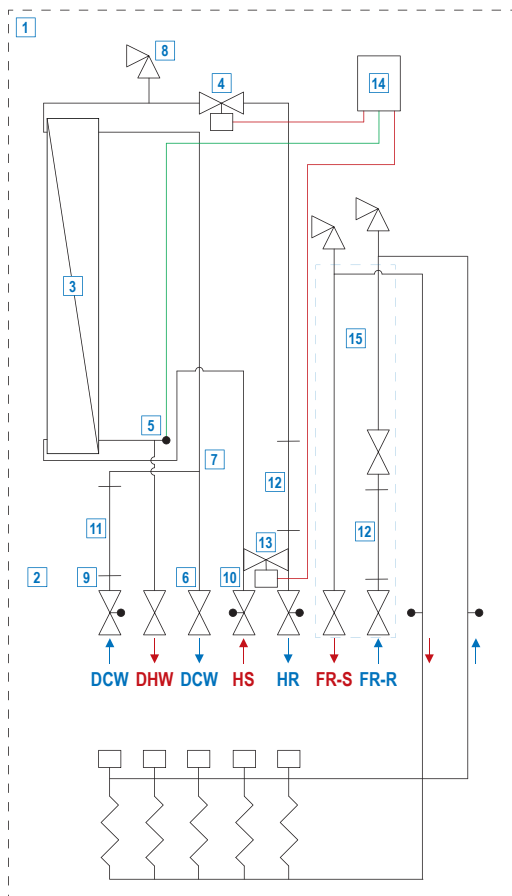
S.S. soldered PHE

Example categorization of item no.

PWT*: Plattenwärmetauscher

Example:	Type DHW station				Solder material	Installation	DHW perf.
Item No.	1	2	2	0	0	0	4
					CU	UP	XL

Circuit diagram BM-WP 4



- 1 Cabinet
- 2 Connecting rail with ball valves
- 3 Plate heat exchanger
- 4 *step a valve* motor valve
- 5 Vortex sensor temperature and flow
- 6 Cold water outlet
- 7 Maximum cold water limiter (optional)
- 8 Fill and drain
- 9 Strainer CW (optional)
- 10 Strainer HS (optional)
- 11 Fitting cold water meter 3/4" - 110 mm
- 12 Fitting heating meter 3/4" - 110 mm
- 13 Temperature provision valve (bypass) with actuator
- 14 Controller
- 15 Underfloor heating / radiator heating