

Fresh water station FW-C 40

The fresh water station FW-C 40 is a powerful and flexible solution for centralised DHW cooling using the flow-through principle. It is equipped with modern high-efficiency pumps, high-quality sanitary balancing valves and a sturdy installation frame. Its cascading capability is also impressive.

Suitable for:



- † **High-efficiency pump:** PWM-controlled for demand-orientated cooling.
- † **Sanitary balancing valves:** High-quality valves for precise control of the water flow.
- † **Outlets at the top:** For an easy installation all drinking water outlets are at the top.
- † **Sturdy construction:** Installation frame made of galvanised sheet steel for durability and stability.
- † **Design front:** Aesthetically attractive and functional.
- † **Cascade capable:** Station can be operated in cascade to enable higher output.
- † **Insulation:** Cooling and cold water pipes are protected against condensation.
- † incl. safety valve (cold water connection)



Design front

Application: The fresh water station FW-C 40 cools drinking water centrally and distributes it to the tapping points via the cold water pipe. Operation according to the flow-through principle means that the drinking water is only cooled ‚just in time‘ when required, eliminating the need for storage. A cooling buffer tank is required to provide sufficient cooling water volume flow.

Cold water preparation: The drinking water is only cooled when required via a stainless steel plate exchanger. The design of the plate exchanger enables high tap capacities.

High-efficiency pumps: The integrated PWM-controlled high-efficiency pump ensures precise and demand-oriented control of the cooled water flow rate. It operates quietly and saves energy, ensuring a constant cold water temperature.

Control and sensors: Speed-controlled regulation ensures that the cold water temperature remains constant. Modern sensors, such as the vortex flow sensor, accurately measure the flow rate and cold water temperature.



Illustration with insulation



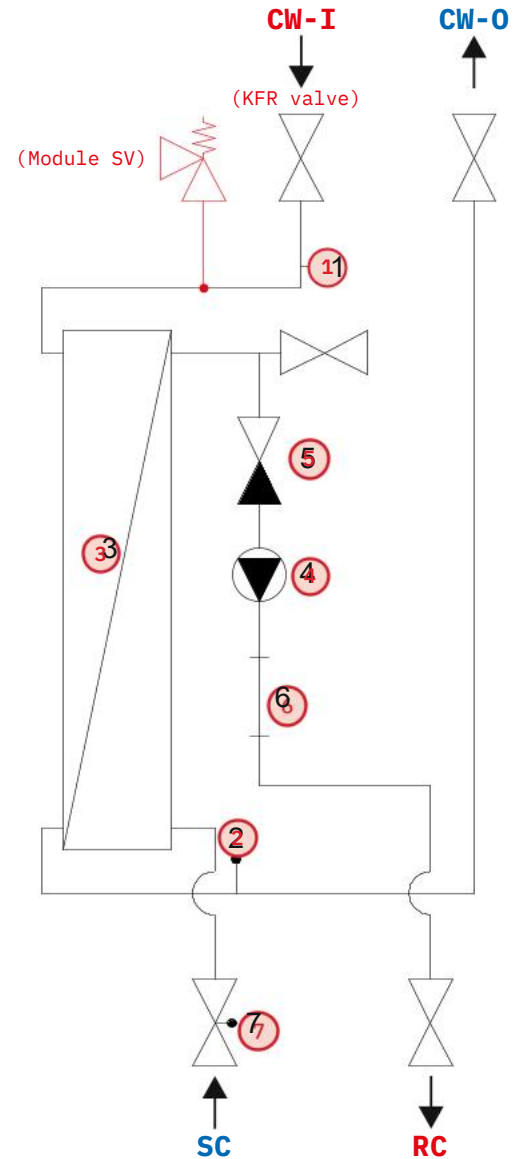
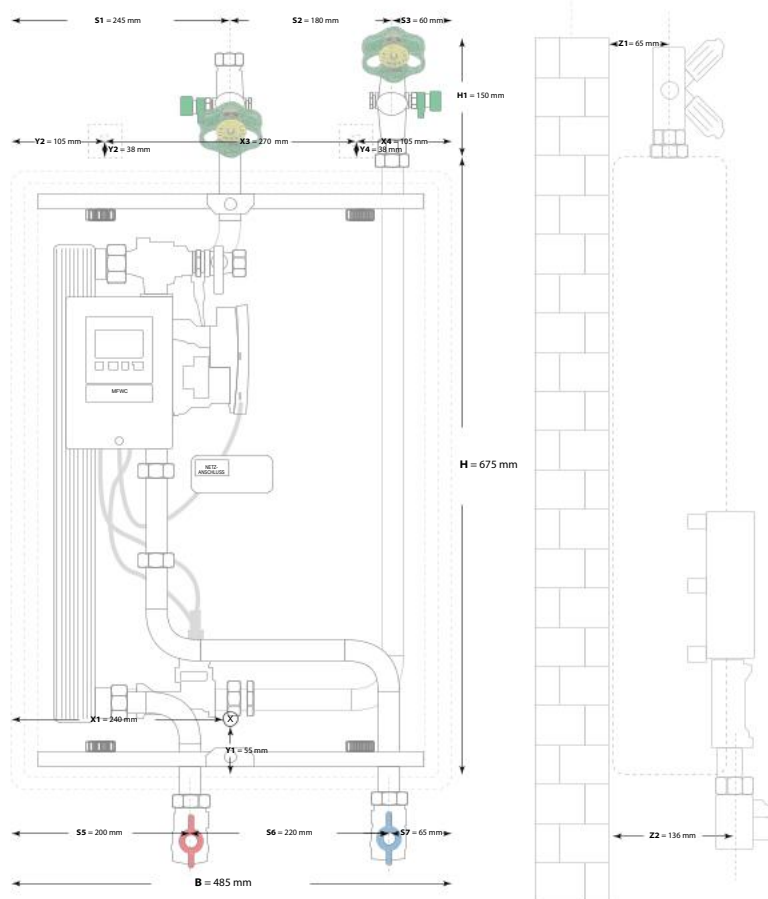
Illustration without insulation

	PRIMARY BUFFER TANK	SECONDARY DRINKING WATER
Pressure rating:	PN 6	PN 10
Max. temperature:	110 °C	75 °C
Connection dimensions:	DN 25	DN 20
Thread:	G1" internal thread	G1" external thread
Size (WxHxD):	480 x 675 x 240 mm	

PERFORMANCE DATA	
Output:	35 kW
Mass flow primary:	1800 l/h
Supply cooling:	8 °C (aggregate)
Return cooling:	24,8 °C
Drinking water inlet:	35 °C
Cold water outlet:	13 °C
Cold water flow rate:	23 l/min

ORDER NO.	
1610007	with copper brazed PHE
1610008	with fully stainless steel brazed PHE

TECHNICAL DATA	
OPERATION	<ul style="list-style-type: none"> • Easy-to-read, illuminated LCD display with full text and graphics mode • Internationally understandable thanks to up to 6 languages included • Self-explanatory: The assigned commands are shown on the display directly above the respective input key • Quick and easy installation thanks to the integrated commissioning wizard
ADD. FUNCTION	Cascade
PLATE EXCHANGER	Long thermal length, low pressure loss Stainless steel 1.4401, brazed copper or fully stainless steel soldered
PIPING	Stainless steel 1.4401, 22x1 mm All cooling and cold water pipes in the station protected against condensation
PUMPS	High-efficiency pump HE 15-60/130 PWM 1
SENSORS	Temperature and volume flow: Sika VVX15 CW/Buffer temperature: Clip-on sensor PT1000/B/2 with cable
INSULATED HOUSING	EPP, black
DELIVERY	Ready to plug in, wired and leak-tested, with operating instructions and installation accessories in a box



SCHEMATIC	
1	Temperature sensor CW input
2	Temperature and flow sensor based on the vortex principle
3	Plate exchanger
4	High-efficiency pump
5	Backflow preventer
6	Fitting for volume meter 130 mm
7	Direct measuring point volume meter
CW-O	Cold water outlet
CW-I	Cold water inlet
SC	Cooling supply
RC	Cooling return