

SONNENKRAFT®

Fresh Water Module

Fresh Water Module FWM150 / FWM225

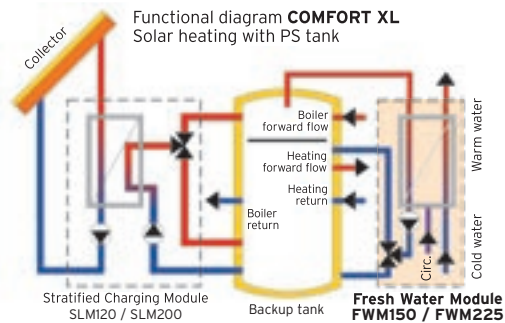


Fresh Water Module FWM150 / FWM225

The fresh water modules FWM150 and FWM225 with their patented design guarantee hygienic hot water with minimal stand-by loss. Water heating in accordance with the flow principle - economical, safe, compact and ready to plug and go - now also available for large-scale system!

Specifications FWM150 / FWM225

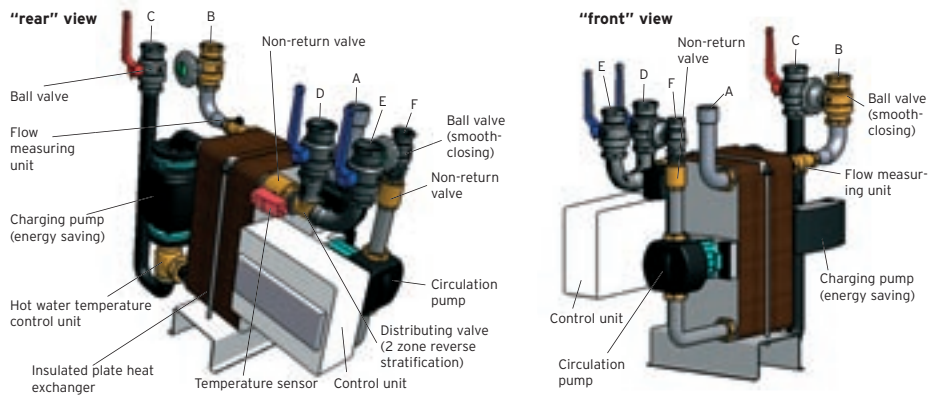
Dimensions including housing	Width: 1170mm Height: 750mm Depth: 420mm	
Cover	Galvanized steel plate	
Piping		
Service water	6/4", Stainless steel, insulated	
Circulation	5/4", Stainless steel, insulated	
Backup	6/4", Painted steel, insulated	
Weight	153kg	175kg
Connections	A = cold water IN, 6/4" female thread B = warm water OUT, 6/4" female thread C = FROM backup tank, 6/4" female thread D = TO backup tank, cold, 6/4" female thread E = TO backup tank, warm, 6/4" female thread F = circulation IN, 5/4" female thread	
Apartments to Austrian standard (ÖNORM)	70	130
Delivery 40° C	150l/min	225l/min
Delivery 55° C	100l/min	150l/min
Heat exchanger, insulated	320kW	500kW
Hot water outlet, partial load	58 - 60° C	
Hot water outlet, full load	55° C	
Max. backup tank temperature	60 - 100° C	
Backup tank return flow	2 zone stratified return	
Pumps	Charging pump FWM150 / FWM225 - circ. pump	
Rated voltage	230V / 50Hz	
Power consumption	0.2899kW / 0.6211kW - 0.2899kW	
Max. current consumption	1.32A / 2.7A - 1.32A	
Rated speed	4800rpm / 4600rpm - 4800rpm	
Min. perm. operating temp.	2° C	
Max. perm. operating temp.	95° C	
Max. permitted operating pressure	Service water 10bar Heating 3bar	



Operation of fresh water module FWM150 / FWM225

When hot water is dispensed, heating water from the backup tank is supplied to the heat exchanger of the module. Using a patented procedure, the circulation pump transports the heating water via a temperature regulating unit through the high-performance heat exchanger and mixes the backup water temperature into the heat exchanger supply so that the preset hot water temperature is reached precisely. The energy-saving circulation pump included as standard guarantees immediate hot water in conjunction with the freely programmable time switch.

Schematic diagram FWM150 / FWM225



Features of Fresh Water Module FWM150 / FWM225

Minimum space requirement: Smallest design, hydraulically and electrically ready to plug and go

Increased hygiene: The continuous flow ensure 100% hygienic fresh service water and prevents legionella from forming

Greater convenience:

- Heat-insulated components
- Patented temperature regulation with simple hot water temperature preselection for
 - constant hot water temperatures and
 - rapid reaction times without over- or undershooting the preset dispensing temperature
- Energy-savings by adapted design, integrated hydraulically and electrically ready to plug and go - instantly available service water - no need to wait

Economy:

- The wet-running pump with ECM technology reduces the operating costs of the circulation pump by up to 80% compared with standard pumps
- Energy-savings by adapting the speed of the primary pump to the hot water quantity dispensed (or circulation)
- Hot water in the flow principle and the simple system integration decrease investment and operating costs significantly compared with standard hot water tank solutions

Service life:

- High quality due to maintenance-free components

Note

Service water is circulated via the integrated time switch. For economic operation, you must install thermostatic circulation valves (regulating valves) in the individual circulation lines.