

**SONNENKRAFT®**



Backup tanks,  
hot water tanks

THE FUTURE OF ENERGY

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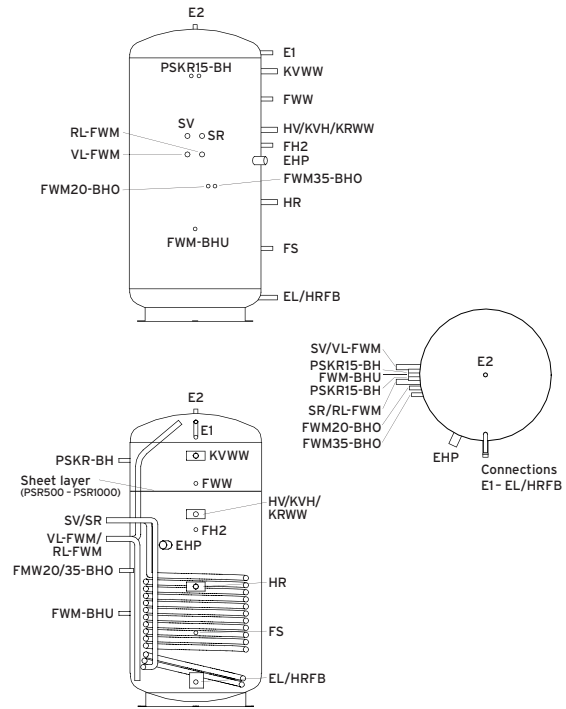
# COMFORT register stratified tank PSR

The COMFORT register stratified tank PSR features an entirely new system for solar water heating and backup heating. The solar energy is conveyed through the PSKR15 solar pumping station into the register stratified tank PSR and the water is heated by the new Fresh water module FWM20/FWM35, which ensures fresh heating water in continuous flow. The COMFORT solution with the Register stratified tank PSR – Simple, complete and ready to “plug and flow”.

## Specifications PSR

	Unit	PSR350	PSR500	PSR800	PSR1000
Contents	l	350	500	800	1000
Diameter, insulated	mm	710	825	910	960
Diameter, not insulated	mm	550	650	750	790
Height, insulated	mm	1715	1960	1990	2090
Height, not insulated	mm	1660	1845	1885	1985
Height when tipped	mm	1680	2002	2042	2145
Weight	kg	90	123	150	178
Permissible heating pressure	bar	3	3	3	3
Permissible solar loop pressure	bar	10	10	10	10
Permissible operating temp. heating	°C	95	95	95	95
Permissible operating temp. solar loop	°C	110	110	110	110
Solar register heating surface area	m <sup>2</sup>	1,4	1,7	2,3	3
Solar heat exchanger volume	l	9,0	10,5	14,6	18,8
Deaeration E1/E2	Rp	1/2"	1/2"	1/2"	1/2"
	mm	-/top	1700/top	1720/top	1815/top
Hot water boiler flow KVWW	R	1"	1"	1"	1"
	mm	1400	1550	1550	1630
Heating flow/boiler flow	R		1"	1"	1"
heating/boiler return hot water HV/	mm	= KVWW	1200	1200	1250
KVH/KRWW					
Sleeve for electric heating EHP	Rp	6/4"	6/4"	6/4"	6/4"
	mm	900	1000	1000	1050
Heating return HR	R	1"	1"	1"	1"
	mm	720	720	720	780
Underfloor heating return /	R	1"	1"	1"	1"
Drain EL/HRFB	mm	110	130	160	160
Solar flow SV	R	1"	1"	1"	1"
	mm	1010	1210	1210	1210
Solar return flow SR	R	1"	1"	1"	1"
	mm	1010	1210	1210	1210
FWM - Fresh water module	R	1"	1"	1"	1"
return flow RL-FWM	mm	890	1090	1090	1090
FWM - Fresh water module forward	R	1"	1"	1"	1"
flow VL-FWM	mm	890	1090	1090	1090
Sensor thermometer well	mm	ø15x200	ø15x200	ø15x200	ø15x200
Sensor thermometer well hot water FWW	mm	-	1400	1400	1450
Sensor thermometer well heating FH2	mm	1000	1100	1100	1150
Sensor thermometer well solar FS	mm	450	450	450	480
Optional: Ready for connection					
Solar pumping station PSKR15		✓	✓	✓	✓
Fresh water module FWM20		✓	✓	✓	✓
Fresh water module FWM35		✓	✓	✓	✓

## Connection diagram PSR



- FWM-BHU or -BHO: Lower M10 attachment sleeve or upper for Fresh water module FWM20/FWM35  
 - PSKR15-BH: M8 attachment sleeve for solar pumping station PSKR15



## Features of COMFORT register stratified tank PSR

- High performance with long service life
- Integrated smooth pipe heat exchanger with a higher heat transfer capacity
- Sheet layer technology and single flow stabilization (PSR500 - 1000) ensure optimum stratification
- Plug in solar pumping station PSKR15 includes 2 loop differential control SKSC2
- “Plug and flow” installation of the Fresh water module FWM20/FWM35 (hydraulic and electrical) includes the following features:
  - Fresh hot water in continuous flow, prevents Legionella from forming
  - No piping installation and hot water tank required
  - Patented temperature regulation ensures constant hot water temperatures
- Automatic system ventilation
- No lime deposits on electrical cartridge because it sits in heating water
- Optimum heat insulation