

**SONNENKRAFT®**



Backup tanks,  
hot water tanks

THE FUTURE OF ENERGY

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# COMBI stratified tank PSK

The COMBI stratified tank PSK is an economical solar energy backup heating system, especially designed for single-family and two-family homes. The stratified tank has a high-quality service water tank for domestic hot water. When used with the complementary solar pumping station PSKR, quick "plug-and-flow" installation is a simple process.

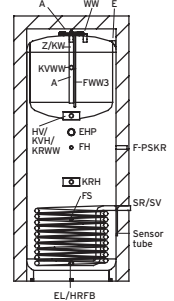
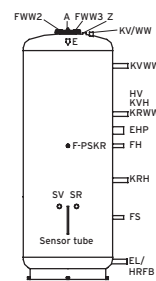
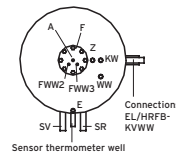
## Specifications PSK

	Unit	PSK550	PSK750	PSK950
Contents incl. service water tank	l	540	750	950
Contents service water tank	l	150	250	250
Diameter, insulated	mm	825	910	960
Diameter, not insulated	mm	650	750	790
Height, insulated	mm	1960	1990	2090
Height, not insulated	mm	1845	1885	1985
Height when tipped, insulated	mm	2002	2042	2145
Height when tipped, not insulated	mm	1870	1910	2015
Weight	kg	140	221	240
Permissible water pressure	bar	6	6	6
Permissible heating pressure	bar	3	3	3
Permissible solar loop pressure	bar	10	10	10
Permissible operating temp. water	°C	95	95	95
Permissible operating temp. heating	°C	95	95	95
Permissible operating temp. solar loop	°C	110	110	110
Solar register surface area	m <sup>2</sup>	1.7	2.3	3
Solar heat exchanger volume	l	10.5	14.6	18.8
Hot water boiler flow KVWW	R	1"	1"	1"
Heating flow/boiler flow	R	1"	1"	1"
Heating/boiler return	mm	1200	1200	1250
Hot water HV/KVH/KRWW				
Heating boiler return KRH (Return increase)	R	1"	1"	1"
	mm	720	850	900
Heating return HR	R		1"	1"
	mm		720	780
Underfloor heating return / Drain EL/HRFB	R	1"	1"	1"
	mm	130	160	160
Solar flow SV	R	1"	1"	1"
	mm	530	770	830
Solar return flow SR	R	1"	1"	1"
	mm	530	770	830
Hot water WW	R	3/4"	3/4"	3/4"
	mm	top	top	top
Cold water KW	R	3/4"	3/4"	3/4"
	mm	top	top	top
Deaeration E	Rp	1/2"	1/2"	1/2"
	mm	top	1720	1815
Circulation Z	R	1/2"	1/2"	1/2"
	mm	top	top	top
Sensor thermometer wells	mm	ø15x200	ø15x200	ø15x200
Sensor thermometer well heating FH (2x)	mm	970	1100	1150
Sensor thermometer well warm water FWW1	mm		1400	1450

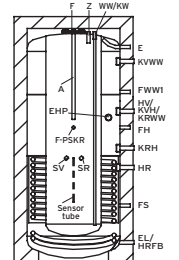
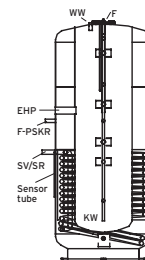
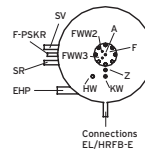
	Unit	PSK550	PSK750	PSK950
Sensor thermometer well FWW2	mm	top	top	top
Sensor thermometer well FWW3	mm	top	top	top
Sensor thermometer well solar FS	mm	450	450	480
Sleeve for electric heating EHP	Rp	1 1/2"	1 1/2"	1 1/2"
	mm	1081	1150	1200
Flange F, D <sub>i</sub> /TK/D <sub>A</sub>	mm	108/150/182	108/150/182	108/150/182
	mm	top	top	top
Cathodic protection anode A	mm	403	403	403
	mm	top	top	top

Extra sensor thermometer wells F-PSKR interior 15mm and sensor tube interior 6.5mm enable plug-in assembly of the drainback aggregate PSKR.

## Connection diagram PSK550



## Connection diagram PSK750/PSK950



## Features of COMBI stratified tank PSK

- Easy to install
- Plug in solar pumping station PSKR includes 2 loop differential control unit SKSC2
- Universal usage
- Better use of fuel thanks to combination of boiler and solar energy system
- Solar energy is also used for heating
- No lime deposits on electrical cartridge because it sits in heating water
- Space-saving solution for solar water heating and simultaneous backup heating
- Good heat stratification due to inner service water tank and sheet layers
- High quality, optimally snug insulation that can also be removed for easier transport
- 100% recyclable
- Sensor thermometer wells for sensors
- Extra sensor thermometer wells and sensor tube enable plug-in assembly of solar pumping station PSKR
- Includes integrated thermostatic service water set TBM20-PSK