

# PRO-CLEAN

STRATIFIED TANK

*SONNENKRAFT*

## EASY

Multifunctional stratified tank with integrated corrugated stainless steel pipe

## EFFICIENT

hygienic continuous heating process

## EXTRA

combination with spherical exchanger - optimal stratification without mixing of the storage tank

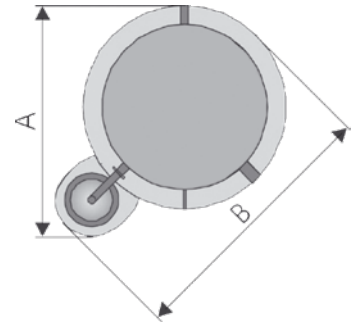


## TECHNICAL DATA

		PC500	PC800	PC1000S	PC1250	PC2WR1250	PC1500	PC2WR1500	PC2000	PC2WR2000	PC2WR2500	PC3000	PC2WR4000	
1 corrugated pipe / 2 corrugated pipes (for increased hot water requirement)		1	1	1	1	2	1	2	1	2	2	1	1	
Nominal volume	l	530	766	937	1246	1246	1540	1496	1930	1889	2430	2910	3920	
Height without insulation	mm	1760	1910	2120	2200	2200	2190	2190	2280	2280	2170	2660	2290	
Height with insulation	mm	1860	2010	2220	2300	2300	2290	2290	2380	2380	2270	2760	2390	
Diameter without insulation	mm	650	750	790	900	900	1000	1000	1100	1100	1300	1250	1600	
Diameter with insulation	mm	850	950	990	1100	1100	1200	1200	1300	1300	1500	1470	18020	
Width A with insulation	mm	1020	1105	1140	1235	1100	1320	1200	1400	1300	1500	1540	1820	
Width B with insulation	mm	1175	1280	1320	1440	1235	1540	1320	1640	1400	1600	1800	1830	
Tilt height	mm	1820	1950	2160	2270	2270	2235	2280	2330	2380	2350	2695	2520	
Weight	kg	154	184	214	204	290	292	330	330	380	535	536	690	
Max. operating temperature	°C							110°C						
Max. tank operating pressure	bar							3 bar						
Max. stainless steel pipe operating pressure	bar							6						
Boiler/heating connections	Rp 6/4" / Rp 2" (partially with inflow absorber)													
Domestic hot water connections	Rp 1"													
Cylinder feed and drain cock connections	Rp 1/2"													
Thermometer connection	Rp 1/2"													

## PRODUCT BENEFITS

- Efficient use of solar energy for hot water and heating
- Simple functional concept without complicated technology or supplementary electrical energy (gravity circulation principle)
- Backup heating from all common systems possible
- Inflow absorbers prevent the layers in the tank from mixing - especially during heat pump operation
- Hygienic water heating due to a special corrugated stainless steel pipe1 (DN 40, 1.4404)
- 5 temperature measuring points (sensor pockets) for each of three temperature sensors on the tank
- Access flange DN 200 from 1500 litres
- Prepared for use with 2 electric screw-in heating elements (photovoltaic feed-in)



\* For problem free maintenance of the corrugated stainless steel pipe (e.g. decalcification), when installing the tank, we recommend installation of flush connections with isolation valves at the hot water connections of the tank. Also, to protect the corrugated stainless steel pipe from excessive calcification, we recommend measures to stabilise or soften the water at tank temperatures of over 60 °C and water hardness of over 2.5 millimoles calcium carbonate per litre (= 14 °dH) (compare DIN 1988-200). All size specifications have a tolerance range of +/- 3%

## SPHERICAL EXCHANGER for solar stratified tank Pro-Clean

The spherical exchanger ensures optimum charging of the stratified tank. Includes an integrated copper finned tube heat exchanger.

### TECHNICAL DATA

Type		ST 20	ST 40	ST60
Material Housing / heat exchanger		S 235 JR / Cu		
Installation		install via flange to Pro-Clean		
Housing max. operating pressure	bar	3		
Housing max. Betriebstemperatur	°C	110		
Heat exchanger max. operating pressure	bar	10		
Heat exchanger max. Betriebstemperatur	°C	110		
Height without insulation	mm	1457	1457	1927
Diameter without insulation	mm	216	216	300
Connection-Dimension		3/4"	1"	5/4"
Total volume with heat exchanger	l	32	32	67,5
Volume of housing without heat exchanger	l	29,6	27,8	60
Heat exchanger volume	l	2,4	4,2	7,5
Empty weight	kg	44	50	59
Heat exchanger outer diameter	mm	190	190	257
Length (insertion depth) of heat exchanger	mm	665	850	980
Surface area of heat exchanger	m <sup>2</sup>	3,87	5,5	9,5
max. recommended collector surface area	m <sup>2</sup>	20	40	60



## SPHERICAL EXCHANGER INSTALLATION

