



Product information
**Solar
storage tanks**

Compact storage tanks, thermal
storage tanks, combined storage
tanks and stratified storage tanks

Switch to the sunny side
for your heating system

SKS compact solar storage tank*

The SKS compact solar storage tank features easy installation and an optimum price/performance ratio. Its polyurethane foam insulation is spray-applied directly to the tank for ideal heat conservation. A preassembled unit comprising solar circuit assembly, controller and membrane expansion vessel can be fixed to the tank. This results in less installation work on the wall, so freeing up space for other uses.



Advantages SKS

- Super-fast installation: preassembled unit comprising solar circuit assembly, controller and membrane expansion vessel can be fitted complete to the tank (position variable). No installation work required on wall.
- Long life thanks to optimum corrosion protection (DIN4753 enamelling and Mg sacrificial anode)
- Good heat transmission with plain tube heat exchanger
- Ideal for solar energy utilisation with large heat exchange surface area
- Polyurethane foam insulation spray-applied directly to tank
- Resilient polystyrene shell creates high-end appearance
- Optimised design for best possible temperature stratification

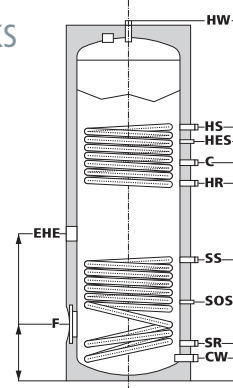
*) Available only with solar circuit compact unit



Technical data SKS

		SKS300	SKS400	SKS500
Rated volume	l	300	400	500
Diameter insulated	mm	600	700	750
Height insulated	mm	1.722	1.685	1.808
Diagonal height	mm	1.800	1.800	1.970
Weight	kg	148	193	226
Max. water pressure	bar	10	10	10
Max. backup heating pressure	bar	16	16	16
Max. solar circuit pressure	bar	16	16	16
Max. water temp.	°C	95	95	95
Max. backup heating temp.	°C	110	110	110
Max. solar circuit temp.	°C	110	110	110
Heating area backup heating coil	m ²	0,8	1	1,2
Heating area solar coil	m ²	1,2	1,5	1,8
Contents of backup heating coil	l	5,1	6,3	7,6
Contents of solar coil	l	7,6	9,5	11,4
Performance indicator backup heating coil	NL	1,8	2,1	2,5
Performance indicator solar coil	NL	8	11	14
Heating supply HS (3/4" ext. thread)	mm	1.215	1.261	1.325
Heating return HR (3/4" ext. thread)	mm	945	965	1020
Solar supply SS (3/4" ext. thread)	mm	580	635	685
Solar return SR (3/4" ext. thread)	mm	180	205	205
Hot water HW (1" ext. thread)	mm	top	top	top
Cold water CW (1" ext. thread)	mm	110	127	128
Circulation C (3/4" ext. thread)	mm	1.045	1.065	1.125
Attached immersion sleeves for sensors	mm	Ø 9 x 60	Ø 9 x 60	Ø 9 x 60
Heating sensor HES	mm	1.145	1.165	1.225
Solar sensor SOS	mm	380	420	445
1 1/2" sleeve for electric heating element EHE	mm	770	770	920
Flange F, Dint./BC/Dext.	mm	110/150/180		
1 1/4" sleeve for magnesium anode A	int. thread	top	top	top

Schematic diagram SKS



PSF solar combination storage tank

The PSF solar combination tank is a buffer storage tank with integrated stainless steel corrugated tube heat exchanger for circulatory hot water heating. It represents a cost-effective entry-level solution for solar heating support. The detachable 100 mm thick soft foam insulation meets the highest standards. The PSF tank provides numerous connection options for additional heat sources and loads. A clamp strip allows the position of the sensors to be varied.



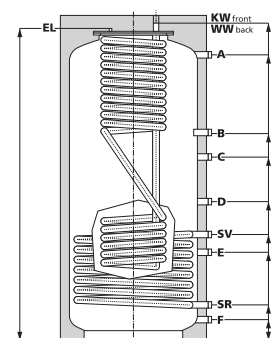
Advantages PSF

- Easy to install
- High quality and long life
- Numerous connection options
- 100 mm thick CFC-free soft foam insulation on top and sides, 50 mm on bottom
- Resilient polystyrene shell creates high-end appearance
- Clamp strips for variable sensor positioning
- Integrated stainless steel corrugated tube for circulatory hot water heating
- Less maintenance work since no anode required

Technical data PSF

		PSF800	PSF900	PSF1050	PSF1300
Rated volume incl. stainless steel corrugated pipe	l	800	900	1.050	1.300
Diameter uninsulated	mm	790	790	900	900
Diameter insulated	mm	990	990	1.100	1.100
Height uninsulated	mm	1.945	2.115	1.925	2.355
Height insulated	mm	1.995	2.165	1.975	2.405
Diagonal height	mm	2.060	2.230	2.050	2.470
Weight	kg	245	253	330	385
Max. water overpressure*	bar	6	6	6	6
Max. pressure heating	bar	3	3	3	3
Max. pressure solar circuit	bar	16	16	16	16
Max. water temp.	°C	95	95	95	95
Max. temp. backupheating	°C	95	95	95	95
Max. temp. solar circuit	°C	110	110	110	110
Heating area circulation coil	m ²	5	5	5	5
Contents of circulation coil	l	27	27	27	27
Heating area solar coil	m ²	2,4	2,6	2,9	3,3
Contents of solar coil	l	14,5	15,7	17,5	20
Sleeve A (Rp 1 1/4")	mm	1.745	1.930	1.730	2.150
Sleeve B (Rp 1")	mm	1.265	1.360	1.250	1.470
Sleeve C (Rp 1")	mm	1.060	1.130	1.045	1.220
Sleeve D (Rp 1")	mm	850	900	835	960
Sleeve E (Rp 1")	mm	540	570	525	600
Sleeve F (Rp 1")	mm	125	125	110	110
Solar supply SS (1" ext. thread)	mm	645	685	630	730
Solar return SR (1" ext. thread)	mm	225	225	210	210
Hot water HW (ext. thread 3/4")	mm	1.945	2.115	1.925	2.355
Cold water CW (3/4" ext. thread)	mm	1.945	2.115	1.925	2.355
Ventilation V (Rp 1/2")	top	top	top	top	

Schematic diagram PSF



* raising off summer 2006

STS solar thermal storage tank

The STS solar thermal storage tank meets the most stringent requirements with its detachable 100 mm thick soft foam insulation. A clamp strip allows the position of the sensors to be varied. Enamelling compliant with DIN 4753 in conjunction with an Mg sacrificial anode provides dependable corrosion protection.



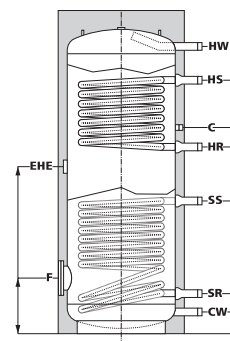
Advantages STS

- Long life thanks to optimum corrosion protection
- Good heat transmission with plain tube heat exchanger
- Ideal for solar energy utilisation with large heat exchange surface area
- 100 mm thick CFC-free soft foam insulation on top and sides, 50 mm on bottom
- Resilient polystyrene shell creates high-end appearance
- Clamp strips for variable sensor positioning
- Optimised design for best possible temperature stratification

Technical data STS

		STS300	STS400	STS500	STS750	STS1000
Rated volume	l	300	400	500	750	1.000
Diameter uninsulated	mm	550	600	650	750	900
Diameter insulated	mm	750	800	850	950	1.100
Height uninsulated	mm	1.545	1.625	1.735	1.982	1.900
Height insulated	mm	1.645	1.725	1.835	2.082	2.010
Diagonal height uninsulated	mm	1.620	1.690	1.800	2.050	2.020
Weight	kg	154	186	226	330	440
Max. water pressure	bar	10	10	10	10	10
Max. pressure backup heating/solar circuit	bar	16	16	16	16	16
Max. temp. water	°C	95	95	95	95	95
Max. temp. backup heating/solar circuit	°C	110	110	110	110	110
Heating area backup heating coil	m ²	1	1,2	1,5	1,9	1,9
Heating area solar coil	m ²	1,4	1,7	2,1	2,7	2,9
Contents bkp heating/solar coil	l	6,3/8,8	7,55/10,7	9,4/13,2	16/22,75	16/24,5
Performance indicator backup heating coil	NL	2	2,2	2,8	13	13
Performance indicator solar coil	NL	11	13	18	35	41
Heating supply HS	ext. thread mm	1" / 1.290	1" / 1.355	1" / 1.490	1 1/4" / 1.567	1 1/4" / 1.482
Heating return HR	ext. thread mm	1" / 950	1" / 1.015	1" / 1.020	1 1/4" / 1.127	1 1/4" / 1.097
Solar supply SS	ext. thread mm	1" / 675	1" / 690	1" / 875	1 1/4" / 967	1 1/4" / 947
Solar return SR	ext. thread mm	1" / 205	1" / 220	1" / 225	1 1/4" / 280	1 1/4" / 320
Hot water HW	ext. thread mm	1" / 1.460	1" / 1.528	1" / 1.630	1 1/2" / 1.855	1 1/2" / 1.760
Cold water CW	ext. thread mm	1" / 110	1" / 120	1" / 130	1 1/2" / 157	1 1/2" / 180
Circulation C	ext. thread mm	3/4" / 1.050	3/4" / 1.115	3/4" / 1.120	3/4" / 1.227	3/4" / 1.197
Sensor clamp strips	vertical metal strips to the left of the pipe connections					
1 1/2" sleeve for electric heating element EHE	mm	850	915	920	1.032	1.012
Flange F, Dint./BC/Dext.	mm	110/150/180				
1 1/4" sleeve for Mg anode A	mm	top	top	top	top	top

Schematic diagram STS



Solar stratified storage tank with/without heat exchanger **PS/PSW**

The PS/PSW solar stratified tanks are suitable for use with fresh water and stratified filling modules in high-end solar systems. In conjunction with flow baffles that provide good stratification, the detachable 100 mm thick soft foam insulation enables maximum coverage rates. A clamp strip allows the position of the sensors to be varied.



Advantages PS/PSW

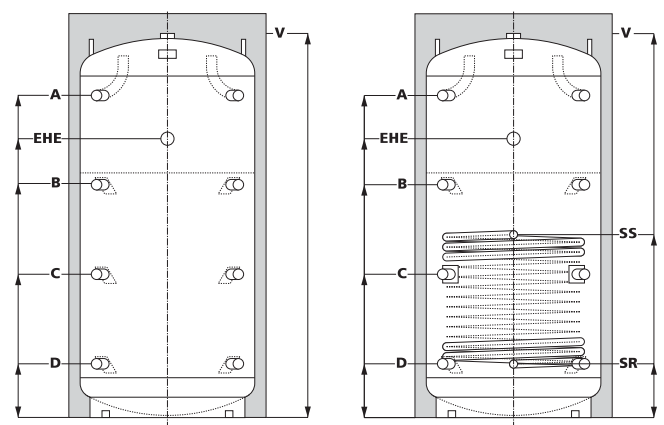
- Easy to install
- High quality and long life
- Universal applications
- 100 mm thick CFC-free soft foam insulation on top and sides, 50 mm on bottom
- Resilient polystyrene shell creates high-end appearance
- Good stratification with built-in flow baffles
- Clamp strips for variable sensor positioning
- Multiple stratified storage tanks can be combined using connecting corrugated pipes
- Connection provided for electric heating element

Technical data PS/PSW

		PSW500 PSW800 PSW1000				
		PS500	PS800	PS1000	PS1500	PS2000
Rated volume	l	500	800	1.000	1.500	2.000
Diameter uninsulated	mm	650	790	790	1.000	1.100
Diameter insulated	mm	850	990	990	1.200	1.300
Height uninsulated	mm	1.620	1.702	2.102	2030	2310
Height insulated	mm	1.720	1.802	2.202	2.130	2.410
Diagonal height	mm	1.745	1.780	2.180	2.150	2.450
Weight PSW	kg	143	202	244	-	-
Weight PS	kg	105	147	171	213	334
Max. pressure backup heating	bar	3	3	3	3	3
Max. pressure solar circuit	bar	16	16	16	-	-
Max. temp. backup heating	°C	95	95	95	95	95
Max. temp. solar circuit	°C	110	110	110	-	-
Heating area heat exchanger	m ²	2,5	2,5	3,2	-	-
Contents heat exchanger	l	15,1	15,1	19,3	-	-
Sleeve A, 2 x (Rp 1 1/2")	mm	1.405	1.446	1.866	1.720	1.985
Sleeve B, 2 x (Rp 1 1/2")	mm	1.045	1.046	1.326	1.253	1.445
Sleeve C, 2 x (Rp 1 1/2")	mm	645	646	786	786	905
Sleeve D, 2 x (Rp 1 1/2")	mm	245	246	246	320	365
Solar supply SS (1" ext. thread)	mm	870	816	946	-	-
Solar return SR (1" ext. thread)	mm	245	246	246	-	-
Supply fresh water module, V (Rp 1 1/2")	mm	top	top	top	top	top
1 1/2" sleeve for electric heating element EHE	mm	1.195	1.196	1.476	1.403	1.595

Sensor clamp strips
Vertical metal strips 45°
to the side of the right-hand pipe connections

Schematic diagram PS/PSW



We will be happy to provide
you with more information.

General information

While this product information remains valid, individual products may be subject to modifications and particularly improvements. For the applicable specifications please consult the article descriptions relating to our current product offerings if necessary. Our General Terms and Conditions apply.