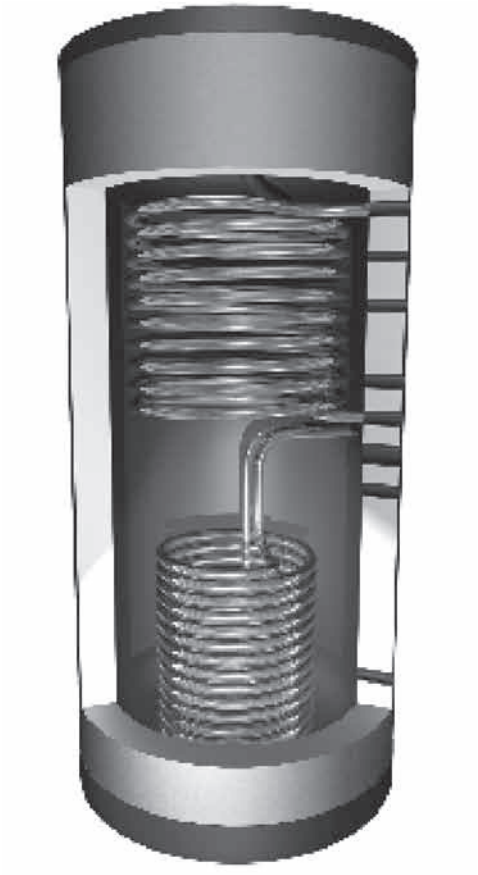
TiSUN®

INSTRUCTIONS
BE-SSP and BE-SSP+SD solar tank
200 to 500 liter incl. fixed foam insulation, solar station and expansion tank



presented by
TEUFEL & SCHWARZ

Version 2/082006/BE-SSP_fix

Preface:

Congratulations for the purchase of our TiSUN Made by Teufel & Schwarz product!
With our name we guarantee for high quality and long lifetime of our products.
Only licensed companies which are confident in use and acquaintances with our products have the permit to process them.

Check:

The BE-SSP solar tank and the accompanying modules must be checked for possible transport damage after unloading. Any damage must be indicated on the delivery slip.

Scope of delivery BE-SSP und BE-SSP+SD solar tank:

1 tank (enamelled)

1 closing lid in PVC

Additional parts in scope of delivery of BE-SSP+SD solar tank:

1 expansion tank (primary pressure 6 bar)

1 solar station and solar pump (wired)

2 corrugated connection hoses, insulation incl.

Type	total height with insulation	ø with insulation	tilt height	smooth pipe register top+bottom
BE-SSP 200 incl. ins.	1.170 mm	600 mm	1.297 mm	0,8+1,0 m^2
BE-SSP 300 incl. ins.	1.635 mm	600 mm	1.742 mm	1,0+1,3 m^2
BE-SSP 400 incl. ins.	1.720 mm	700 mm	1.874 mm	1,2+2,2 m^2
BE-SSP 500 incl. ins.	1.810 mm	750 mm	1.976 mm	1,5+2,2 m^2

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1. Installing the BE-SSP solar tank:

CAUTION: Transport and tilt the tank with care (enamelling!)

The BE-SSP solar tank must be installed by a certified firm in a dry, frost-free room. The applicable laws, regulations and standards for boiler house piping and sanitary installations must be observed. The BE-SSP solar tank can be carried into its room upright or on its side, or brought in with lifting equipment, depending on its size. The lugs on the lid and the foot ring provided are the only gripping points that may be used. Follow the installation sequence step by step.

a) Position the BE-SSP solar tank on the site. Observe the space required for mounting the electrical heating element.

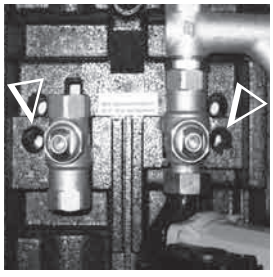
b) The tank can now be connected. Have a licensed specialist make the necessary connections and start the tank up.

CAUTION: The tank must then be checked for pressure and leakage.

c) The sensor tubes are mounted on the exterior.

2. Installing the solar station:

a) Remove the insulation lid from the solar station. Mount the accompanying extension bushings on the screw neck provided (no. 10). Then fasten the station with M8x15 screws (socket head cap screw, refer to installation instructions solar station).



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b) Connect the tank and solar station using the flexible connecting hoses incl. sealing.

c) Connect the collector connecting lines to the solar station.

d) Connect the sensor and pump cable to the control using the coded plug-in system.

Reinstall the insulation lid of the solar station.

e) **CAUTION:** Do not permit the sensor and plugs to come into contact with hot parts.

3. Installing the SAG solar expansion tank:

a) Install the mounting bracket for the SAG with M8x15 screws on the screw neck provided (no. 14) (at the right of the solar station).

b) Install the SAG and connect it to the solar station using the flexible hose. (SAG connection set)

BE-SSP solar tank operating conditions:

Max. operating pressure:	10 bar
Max. operating temperature:	+120°C

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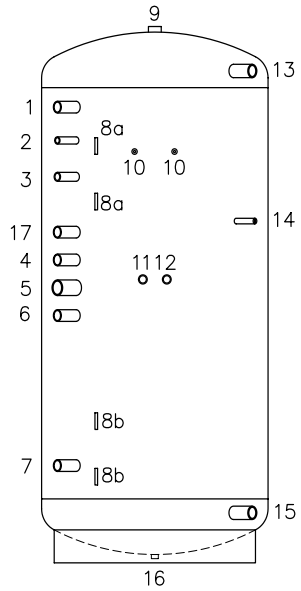
4. Description of BE-SSP solar tank sleeve:



1	VL reheating (register)
2	Boiler - thermometer
3	Circulation
4	RL reheating (register)
5	Electrical heating element
6	Conn. for external PWT (from 400l)
7	Conn. for external PWT (from 400l)
8a	Sensor sleeves - reheating
8b	Sensor sleeves - solar
9	Magnesium anode
10	Solar station mounting
11	Solar station connection (for BE-SSP VL solar)
12	Solar station connection (for BE-SSP RL solar)
13	Hot water
14	Solar expansion tank mounting
15	Cold water
16	Stransportation sleeve 1/2" (closed)
17	Conn. for external PWT (from 650l)

NOTES:

1.) Anode maintenance must be carried out on the BE-SSP annually; the magnesium anode must be replaced if necessary. (If the distance to the ceiling is too small use a chain anode).

2.) Refer t o the respective attached operating instructions for startup procedures for individual components and collector installation!

CLEANING OR REMOVING LIME DEPOSITS:

Clean/remove lime by rinsing between sleeves 13 and 15. Use citric acid to clean or remove lime deposits. Then rinse the tank with water until there is no more citric acid in the tank. To siphon out the remaining water from the bottom of the tank, introduce a hose at sleeve 15 and use a pump or wet vacuum cleaner.

CAUTION:
The cleaning or lime removal work described above may only be carried out by personnel who are aware of the risks involved in working with citric acid.