

Heat Pump Solar Tank WSP 500

The new heat pump solar tank with high-capacity heat exchangers for single-family dwellings and apartment houses.

Double heat exchanger register, develop for the optimum application of heat pumps.

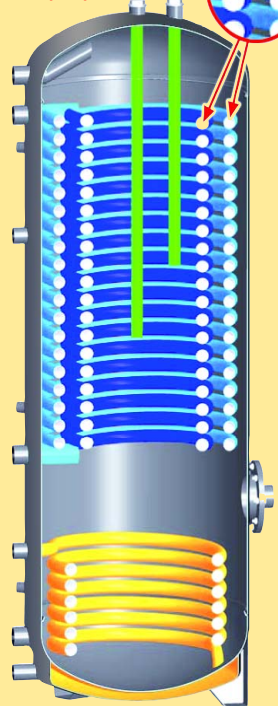


The application of modern heat pumps in connection with our high-capacity solar collectors challenged our designers to develop this unique heat pump-high-capacity tank. The sophisticated technology guarantees the highest performance.

Heat pumps application: By the huge double register in the upper storage area the heat pump can achieve the best energy performance. 6 m² heat exchanger surface for the heat pump are more than enough to reach a reasonable achievement identity figure also with hot water warming.

Solar application: In the lower area a special solar heat exchanger with additional exchanger surface is fixed in the double tank ground. The tank volume unused by conventional heat exchangers is integrated by this exchanger bottom below the solar heat exchanger in the solar warm zone. The solar return is the lowest connection of the tank, the hot water is completely heated up to the ground, here an optimum warm performance is guaranteed. In addition, the solar return reaches lower temperatures by which the collector efficiency is raised.

The heat pump solar tank of NEHS provides by his special construction method perfectly for a consistently high performance the best warm water quality. In addition, the operating expenses of the heat pumps are held low. The heat pumps tank can be also used in the fuel value technology optimally.



Advantages of the heat pump Tank WSP 500

- Big heat exchanger for heat pump.
- Additional heat exchanger for solar arrangement.
- Double tankground for the highest warm transference achievement of your collector arrangement.
- Very well for fuel value technology suitable. By the huge upper exchanger the surface condensing tank will also achieve the best level of utilisation with hot water warming.
- The huge upper heat exchanger achievement does from this tank a top performance hot water which also fulfils the high requirements for apartment houses.
- Robust construction method from high-quality steel.
- Corrosion prevention inside with 2 layer enamelling and additional two protective anodes (Made in Germany).
- PU Hard foam insulation , firmly foamed with PVC coat in silver, for the lowest heating losses.
- Additional cleansing flange with connection possibility of a suitable electric screw in heater.
- Fits by every 80 cm door. By the low memory diameter and the optimum construction height of the tank the application is also suitable very well in the renovation area.

- Burner technology
- Heating technology
- Measuring technology
- Solar technology
- Heat pump technology



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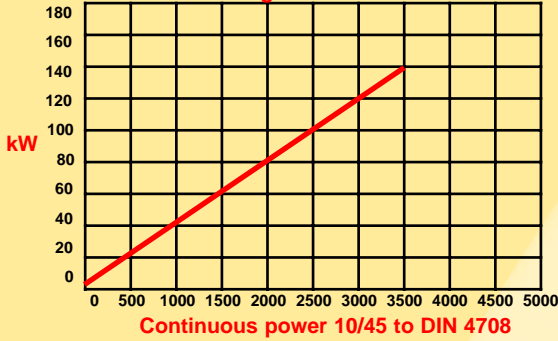
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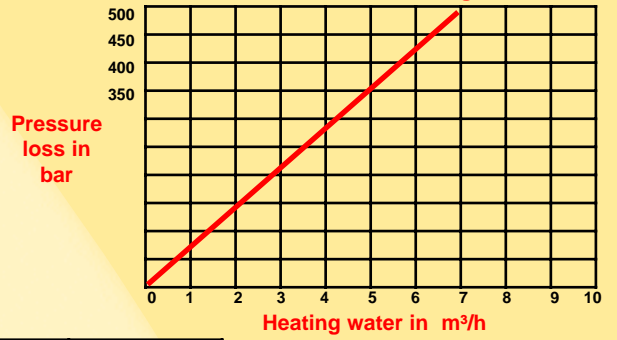
Internet
www.nehs.eu

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Flow diagram of the WSP 500



Pressure loss heat exchanger above



Technical data		WSP 500
Hot water	L	458
Diameter (with Insulation)	mm	740
Height (with Insulation)	mm	1774
Topple measure	mm	1923
Insulation PU Foam	mm	45
Weight	kg	258
Heating surface exchanger above	m²	6
Volume heat exchanger above	L	35
Max working pressure heat exchanger above	bar	10
Max working temperature heat exchanger above	°C	95
Volume flow exchanger above	m³/h	4,6
Pressure loss exchanger above (to 3m³/h)	mbar	230
Heat pump power to 55/45 (kW) exchanger above	L/h	651 (26)
Energy consumption in 24 h	kWh/d	3
Continuous rating exchanger above	L/h	2540 (96)
Engine performance exchanger above	NL	38
Continuous rating exchanger below	L/h	1290 (52)
Engine performance of all exchanger	NL	45,2
Max working pressure tank	bar	10
Max working temperature tank	°C	95
Heating surface solar exchanger below	m²	1,5
Volume solar exchanger below / whole including double bottom	L	6,4 / 14
Max working pressure solar exchanger	bar	10
Max working temperature solar exchanger	°C	110
Recommended minimum collector surface	m²	10
1 Anode	above	2 piece 1¼"
2 Hot water	mm (inch)	1589 (1¼" IT)
3 Thermometer	mm (inch)	1514 (½" IT)
4 Heating flow	mm (inch)	1489 (1¼" IT)
5 Sensor	mm (inch)	1389 (½" IT)
6 Circulation	mm (inch)	1189 (1" IT)
7 Sensor hot water	mm (inch)	739 (½" IT)
8 Heater return	mm (inch)	639 (1¼" IT)
9 Cleaning muff Ø100	mm (inch)	521 (1½" IT)
10 Solar flow	mm (inch)	404 (1" IT)
11 Solar sensor	mm (inch)	289 (½" IT)
12 Cold water	mm (inch)	189 (1¼" IT)
13 Solar return	mm (inch)	100 (1" IT)
Max. heating rod (optionally)	kW	6

