

Domestic Hot Water Tank

**DHW**

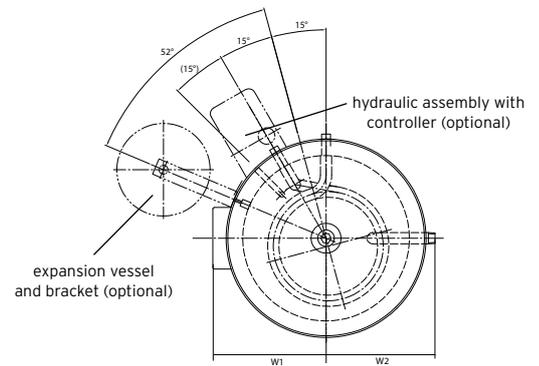
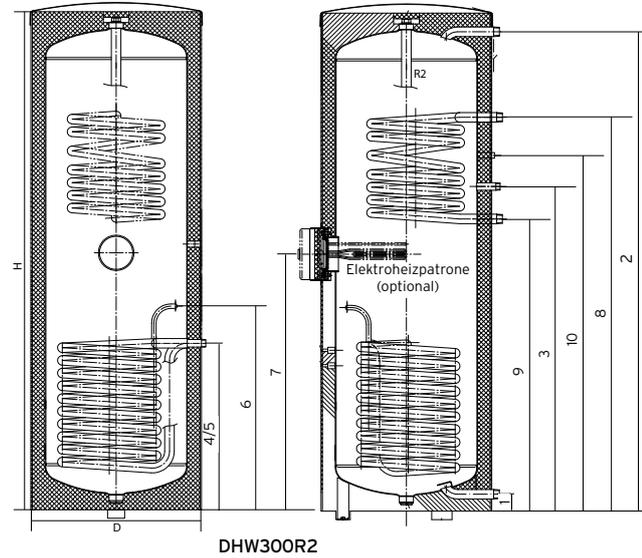


# Domestic hot water tank DHW

The new domestic hot water tank DHW from SONNENKRAFT with its modern and clean design is an attractive investment for households with limited room for a solar installation but a maximum demand for efficiency. The tank is directly fitted with a cfc-free insulation that minimizes heat losses and its cover can be cleaned easily. A hydraulic assembly designed by SONNENKRAFT especially for this tank can be mounted quickly. This hydraulic group is pre-assembled and internally wired up reducing time and costs for cabling and tubing. The solar connections on the tank are situated next to each other, which allows an easy installation with double tubing. Furthermore the required expansion vessel may also be mounted directly to the tank. The integrated controller is already programmed which allows a plug & flow start up of the system. The tank is also available with a second heat exchanger in cases where a supplementary heat source is required. It can also be fitted out with an electric heater.

Type	DHW200		DHW300		DHW400		DHW500	
	R1 (-EHP)	R2	R1 (-EHP)	R2	R1 (-EHP)	R2	R2	
Capacity	l	190.6	184.4	291.5	284.9	373.4	365.5	449.2
Diameter, with insulation D	mm	540		600		700		700
Height, with insulation H	mm	1432		1794		1591		1921
Tilted height, without lid	mm	1514		1876		1713		2022
Weight	kg	75	82	104	115	117	130	152
max. domestic water pressure	bar	10						
max. solar circuit pressure	bar	10						
max. operating pressure heating	bar	10						
max. operating water temp.	°C	95						
max. operating temp. solar circuit	°C	110						
max. heating system temperature	°C	110						
Surface area solar heat exchanger	m <sup>2</sup>	0.8		1.16		1.53		1.95
Surface area heating register	m <sup>2</sup>	-	0.69	-	0.75	-	1	1.28
Solar heat exchanger capacity	l	5.6		8.1		12.9		13.62
Heating syst. heat exchanger cap.	l	-	4.86	-	5.18	-	6.97	8.92
Performance indicator N <sub>L</sub> solar heat exchanger	N <sub>L</sub> / kW	2.8 / 27		4.1 / 36		9.4 / 43		14.7 / 60
Performance indicator N <sub>L</sub> upper heat exchanger	N <sub>L</sub> / kW	-	2.4 / 25	-	2.5 / 27	-	5.7 / 31	8.9 / 40
<b>1 Cold water</b>	R	3/4"		1"		1"		1"
	mm	55		90		55		55
<b>2 Hot water</b>	R	3/4"		1"		1"		1"
	mm	1371		1728		1526		1856
<b>3 Circulation</b>	R	3/4"		3/4"		3/4"		3/4"
	mm	901		1180		1112		1264
<b>4 Solar flow</b>	G	3/4"		3/4"		3/4"		3/4"
	mm	486		620		639		774
<b>5 Solar return</b>	G	3/4"		3/4"		3/4"		3/4"
	mm	486		620		639		774
<b>6 Sensor immersion sleeve</b>	mm	617		751		771		774
<b>7 Inspection flange / electric heater flange</b>	mm	713		940		726		995
<b>8 Heating flow</b>	R	-	1"	-	1"	-	1"	1"
	mm	-	1148	-	1425	-	1355	1604
<b>9 Heating return</b>	R	-	1"	-	1"	-	1"	1"
	mm	-	788	-	1065	-	1007	1115
<b>10 Sensor immersion sleeve</b>	mm	-	Ø 16	-	Ø 16	-	Ø 16	Ø 16
	mm	-	1013	-	1065	-	1224	1411
Anode	mm	Ø 33 x 330	Ø 33 x 410	Ø 33 x 480	Ø 33 x 590	Ø 33 x 590	Ø 33 x 690	Ø 33 x 850
Heat losses	kWh/24h	2.1	2.3	2.5	2.7	2.8	3.0	3.2
Thermal conductivity	W/mK	0.034						

## Schematic drawings DHW



DHW300R2 with RLG-E

## Features of domestic hot water tank DHW

- Premium European quality, with proven and durable technology, 100% leak tested
- Cost effective solution at a competitive price
- Meets up to 70 % of the hot water demand of a household
- Easy to install and set up due to „plug and flow“
- Reduced time and cost of installation
  - Pre-assembled solar pump, controller (FR: and electric heating)
  - Reduced tubing and connections
- Automatic operation, low maintenance
- Specifically designed hydraulic assembly and accessories
- Compatible with all Sonnenkraft collectors
- Fits in every home due to its modern design