

EcoCompact WP 300 / 500



Solar heat pump system storage tanks

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Application

Compact hot water system storage tank with solar station integrated in the insulation. The full equipment level guarantees great ease of assembly removing any mistake in terms of installation.

Solar station equipment

Solar station in complete 2 line design with monoblock housing, breather chamber, flushing/emptying valve, non-return valve, safety group, high-efficiency pump and solar controller.

Corrosion protection for parts with drinking water contact

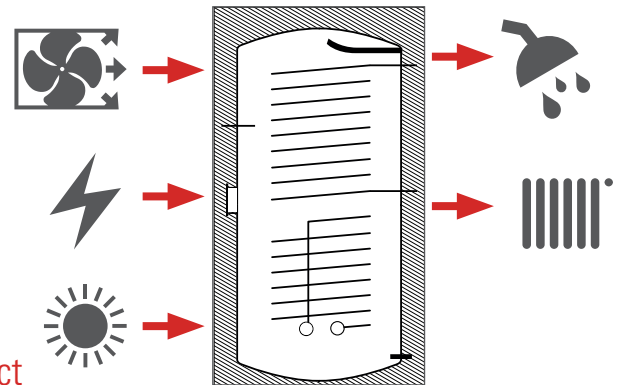
Enamelled as per DIN 4753. A magnesium anode offers additional corrosion protection.

External corrosion protection

Protective enamelled layers, foam encased

Heat insulation

50 mm PU rigid foam insulation with soft sleeve



Model overview EcoCompact WP 300 / 500

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface HE top / bottom	Output figure at supply temp. 55 °C	Energy efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m ²]	[-]	[-]
EC-WP 300	STD0300ECOWP	285	1640	1780	610	126	2,5 / 1,2	1.4	C
EC-WP 500	STD0500ECOWP	496	1740	1900	760	192	3,8 / 1,6	3.8	C

System storage tanks

Technical specifications EcoCompact WP 300 / 500

Type	Unit	EC-WP 300	EC-WP 500
Article no.	[-]	STD0300ECOWP	STD0500ECOWP
Volume	[l]	285	496
Drinking water content	[l]	262.8	460.9
Content HE top	[l]	15	24.7
Content HE bottom	[l]	7.2	10.4
Height with insulation	[mm]	1640	1740
Diameter with insulation	[mm]	610	760
Tilt height	[mm]	1780	1900
Installation diameter	[mm]	610	760
Weight (empty)	[kg]	126	192
Max. operating pressure heating side	[bar]	10	10
Test pressure heating side	[bar]	15	15
Max. operating pressure hot drinking water side	[bar]	10	10
Test pressure hot drinking water side	[bar]	15	15
Max. operating pressure solar side	[bar]	10	10
Test pressure solar side	[bar]	15	15
Max. operating temperature heating side	[°C]	95	95
Max. operating temperature hot drinking water side	[°C]	95	95
Max. operating temperature solar side	[°C]	95	95
Surface HE top	[m²]	2.5	3.8
Surface HE bottom	[m²]	1.2	1.6
Insulation thickness	[mm]	50	50
Max. installation length EHP	[mm]	500	650
Max. output EHP	[kW]	2.5	4
Output figure at supply temp. 55 °C	[-]	1.4	3.8
On-demand heat overhead	[kWh/d]	2.00	2.70
Holding losses	[W]	84	111
Energy efficiency class	[-]	C	C
Insulation material	[-]	PU rigid foam ($\lambda=0.024$ W/mK)	
Corrosion protection	[-]	Enamelled as per DIN 4753, magnesium anode	

Output data EcoCompact WP 300 / 500

	Continuous output at supply temperature ¹				NL	Values as per DIN4708 (data relative to output figure) ²				Draw-off performance in 60 min ³	
	55 °C		60 °C			Max. draw-off performance in 10 min		Draw-off performance after 0 min 30 min ³			Supply temp. 55 °C
	[kW]	[l/h]	[kW]	[l/h]		[l]	[l/min]	[l]	[l/min]		
HE top	300	12.6	310	36.0	884	1.4	167	16.7	51	16.0	451
	500	16.0	392	45.6	1120	3.8	260	26.0	140	22.4	642

1 - Heating from CW 10 °C to WW 45 °C

2 - Heating from CW 10 °C to WW 45 °C; supply 70 °C; storage tank temperature CW + 50 K

3 - Computed data at maximum output; CW 10 °C to WW 45 °C; storage tank temperature 60 °C

Connections and dimensions EcoCompact WP 300 / 500

Connections		Unit	EC-WP 300	EC-WP 500
S/TH	Sensor/Thermometer	[mm]	1422 Ø 17.2 mm	1490 Ø 17.2 mm
FL	Flange	[mm]	775 Ø 180/120 mm	800 Ø 180/120 mm
ASS	Assembly bracket	[mm]	680	705
SS	Solar sensor	[mm]	452 Ø 17.2 mm	477 Ø 17.2 mm
SLS	Solar supply	[mm]	252 Ø 25.75 mm	277 Ø 25.75 mm
SLR	Solar return	[mm]	252 Ø 27 mm	277 Ø 27 mm
AN	Anode	[mm]	1640 1¼" IT	1710 1¼" IT
HW	Hot water	[mm]	1523 1" IT	1570 1" IT
HPS	Heat pump supply	[mm]	1430 1¼" IT	1470 1¼" IT
C	Circulation	[mm]	1250 ½" IT	1270 ½" IT
SHP	Heating sensor post-heating	[mm]	1150 ½" IT	1170 ½" IT
HPR	Heat pump return	[mm]	845 1¼" IT	860 1¼" IT
MAG	MAG bracket	[mm]	412	412
CW	Cold water	[mm]	135 1" IT	145 1" IT

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