

# EcoCompact 200 - 500



# Solar heating system storage tanks

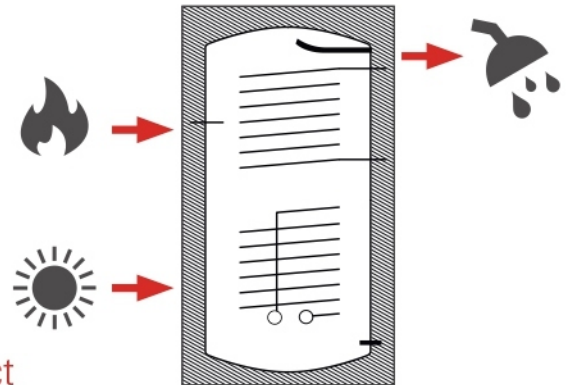
## EcoCompact 200 - 500

### 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

### Applications and benefits

Compact modern design

Avoiding gravity circulation

Optimised on-demand heat overhead

Plug & play - Solar station / Controllers / Sensors

Model overview EcoCompact 200 - 500

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface HE top / bottom	Output figure	Energy efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m <sup>2</sup> ]	[-]	[-]
EC 200	STD0200ECO	224	1350	1485	610	94	0.8 / 1	1.8	C
EC 300	STD0300ECO	285	1670	1780	610	124	1 / 1.2	2.2	C
EC 400	STD0400ECO	415	1500	1685	760	147	1.1 / 1.5	3.0	C
EC 500	STD0500ECO	496	1740	1900	760	190	1.4 / 1.6	4.8	C

## System storage tanks

### Technical specifications EcoCompact 200 - 500

Type	Unit	EC 200	EC 300	EC 400	EC 500
Article no.	[-]	STD0200ECO	STD0300ECO	STD0400ECO	STD0500ECO
Volume	[l]	224	285	415	496
Drinking water content	[l]	212.6	272.1	398.9	477.1
Content HE top	[l]	5	5.7	6.6	8.5
Content HE bottom	[l]	6.4	7.2	9.5	10.4
Height with insulation	[mm]	1350	1670	1500	1740
Diameter with insulation	[mm]	610	610	760	760
Tilt height	[mm]	1485	1780	1685	1900
Installation diameter	[mm]	610	610	760	760
Weight (empty)	[kg]	94	124	147	190
Max. operating pressure heating side	[bar]	10	10	10	10
Test pressure heating side	[bar]	15	15	15	15
Max. operating pressure hot drinking water side	[bar]	10	10	10	10
Test pressure hot drinking water side	[bar]	15	15	15	15
Max. operating pressure solar side	[bar]	10	10	10	10
Test pressure solar side	[bar]	15	15	15	15
Max. operating temperature solar side	[°C]	95	95	95	95
Surface HE top	[m²]	0.8	1	1.1	1.4
Surface HE bottom	[m²]	1	1.2	1.5	1.6
Insulation thickness	[mm]	50	50	50	50
Max. installation length EHP	[mm]	500	500	650	650
Max. output EHP	[kW]	2	2.5	4	4
Output figure	[-]	1.8	2.2	3.0	4.8
On-demand heat overhead	[kWh/d]	1.60	1.90	2.40	2.60
Holding losses	[W]	68	80	101	107
Energy efficiency class	[-]	C	C	C	C
Insulation material	[-]	PU rigid foam ( $\lambda=0.024$ W/mK)			
Corrosion protection	[-]	Enamelled as per DIN 4753, magnesium anode			

### Output data EcoCompact 200 - 500

	Continuous output at supply temperature <sup>1</sup>						Values as per DIN4708 (data relative to output figure) <sup>2</sup>				Draw-off performance in 60 min <sup>3</sup>		
	50 °C		60 °C		70 °C		NL	Max. draw-off performance in 10 min		Draw-off performance after 30 min		Supply temp. 70 °C	
	[kW]	[l/h]	[kW]	[l/h]	[kW]	[l/h]		[l]	[l/min]	[l]	[l/min]		
HE	200	3.4	83	9.6	236	16.8	413	1.8	186	18.6	66	17.3	528
	300	4.2	103	12.0	295	21.0	516	2.2	204	20.4	81	18.5	667
	400	4.6	113	13.2	324	23.1	567	3.0	232	232.2	111	20.5	802
	500	5.9	145	16.8	413	29.4	722	4.8	291	29.1	177	24.6	988

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 200 - 500

Connections		Unit	EC 200	EC 300	EC 400	EC 500
S/TH	Sensor/Thermometer	[mm]	1122 Ø 17.2 mm	1422 Ø 17.2 mm	1250 Ø 17.2 mm	1490 Ø 17.2 mm
EHC	Electric heating cartridge	[mm]	730 1½" IT	900 1½" IT	850 1½" IT	900 1½" IT
ASS	Assembly bracket	[mm]	680	680	705	705
SS	Solar sensor	[mm]	452 Ø 17.2 mm	452 Ø 17.2 mm	477 Ø 17.2 mm	477 Ø 17.2 mm
SLS	Solar supply	[mm]	252 Ø 25.75 mm	252 Ø 25.75 mm	277 Ø 25.75 mm	277 Ø 25.75 mm
SLR	Solar return	[mm]	252 Ø 27 mm	252 Ø 27 mm	277 Ø 27 mm	277 Ø 27 mm
AN	Anode	[mm]	1320 1¼" IT	1640 1¼" IT	1470 1¼" IT	1710 1¼" IT
HW	Hot water	[mm]	1203 1" IT	1523 1" IT	1330 1" IT	1570 1" IT
HES	Heating supply	[mm]	1105 1" IT	1390 1" IT	1230 1" IT	1455 1" IT
C	Circulation	[mm]	1000 ½" IT	1250 ½" IT	1115 ½" IT	1270 ½" IT
SHP	Heating sensor post-heating	[mm]	900 ½" IT	1150 ½" IT	1015 ½" IT	1170 ½" IT
HER	Heating return	[mm]	790 1" IT	1030 1" IT	915 1" IT	1050 1" IT
MAG	MAG bracket	[mm]	412	412	412	412
CW	Cold water	[mm]	135 1" IT	135 1" IT	145 1" IT	145 1" IT

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