SYRIUS
Solar Industry

BT-WWS 580 TO 2000

Double heat exchanger

The BT-WWS series buffer tanks are mainly used for a Solar Energy Combined System (SECS) installation. They allow to combine the production of heating and instantaneous DHW production through a 316L stainless steel coil and a second backup by heat pump or boiler.

Description

- Buffer tank for SECS, for an instantaneous heating and DHW system, equipped with a coil and a two heat exchangers.
- Black steel cylinder for technical water
- Polystyrene finish (500-580L) or PVC (800 à 2 000L) 9006 RAL

Tank guarantee 2 years

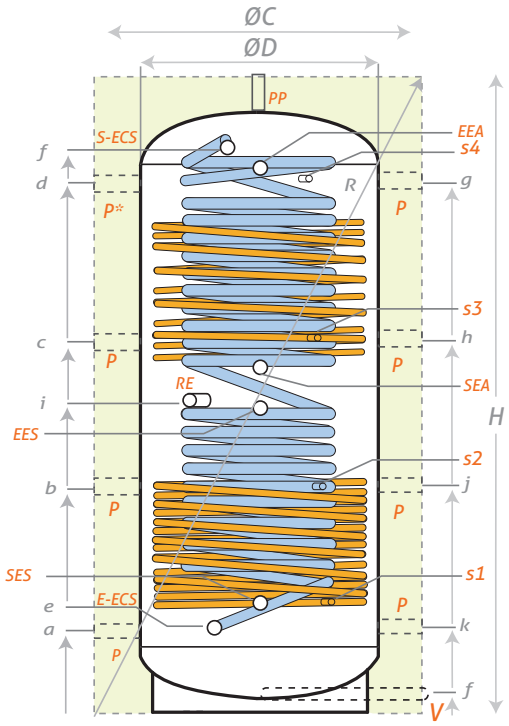
Certifications

Made in the European Union

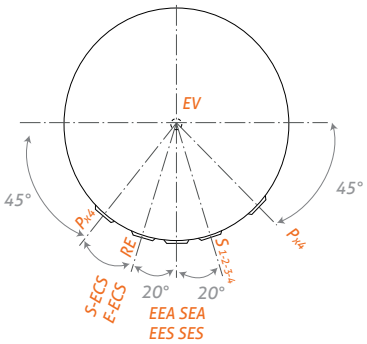
CE

BT-WWS 580, 800, 1000, 1500 and 2000 liters

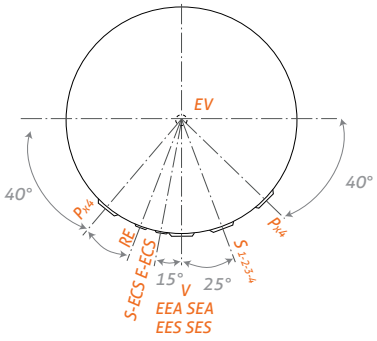
Model / reference	580 L	800 L	1000 L	1500 L	2000 L
Tank	**BT0580WWS**	**BT0800WWS**	**BT1000WWS**	**BT1500WWS**	**BT2000WWS**
Empty weight (kg)	-	-	-	-	-
Insulation: thickness (mm) / material	50 polyurethane	75 polyurethane		130 polyester	
Heat dissipation ΔT 45K (W)	114	131	138	163	174
Cooling constant (Wh/j/l/K)	0,1084	0.0972	0.0876	0.0609	0.0480
Max. working temperature (°C)			95		
Fire-resistance class		B2 DIN 4102-1		B1 DIN 4102-1	
Cylinder					
Capacity (liters)	519	663	767	1333	1831
Max. working pressure (bar)			3		
Connections			8		
DHW stainless steel coil					
Volume contained (liters) / Exchange surface (m²)	20/4	30/6	38/7.5	50/10	50/10
Power (kW) / Flow (m3/h)	51/1.25	77/1.9	98/2.4	128/3.15	128/3.15
Pressure loss (kPa) / Max. working pressure (bar)			- / 6		
Heat exchanger (upper)					
Volume contained (liters) / Exchange surface (m²)	8/1.3	10/1.8	15/2.4	19/3	21/3.4
Power (kW) / Flow (m3/h)	-	-	-	-	-
Pressure loss (kPa) / Max. working pressure (bar)			- / 12		
Solar heat exchanger (lower)					
Volume contained (liters) / Exchange surface (m²)	14/2.1	16/2.4	20/3	26/4.1	30/4.6
Power (kW) / Flow (m3/h)	-	-	-	-	-
Pressure loss (kPa) / Max. working pressure (bar)			- / 12		



Models 580 to 1000 L



Models 1500 - 2000 L



	Connections	Model 580	800	1000	1500	2000
EV	Steam trap	1"	1"½	1"½	3"	3"
P*	Cylinder connection	1"¼	1"¼	1"½	1"½	1"½
P	Cylinder connection	½"	½"	1"½	1"½	1"½
E-ECS	Sanitary cold water inlet	1"	1"¼	1"¼	1"¼	1"¼
S-ECS	Sanitary hot water outlet	1"	1"¼	1"¼	1"¼	1"¼
RE	Electrical resistance	1"½	1"½	1"½	1"½	1"½
EES-SES	Solar heat exchanger inlet/outlet	1"	1"¼	1"¼	1"¼	1"¼
EEA-SEA	Heat exchanger inlet/outlet	1"	1"¼	1"¼	1"¼	1"¼
V	Drain	/	/	/	1"	1"

Model	ØC	ØD	H	R	a-k-s1	b-s2	c-s3	d-s4	e	f	g	h	i	j	f
580	750	600	1900	2045	270	730	1190	1650	270	1650	1650	1190	950	730	/
800	940	760	1810	2040	360	710	1060	1410	310	1460	1410	1060	940	710	/
1000	940	760	2060	2270	360	790	1230	1660	310	1710	1660	1230	1090	790	/
1500	1270	850	2440	2755	455	955	1455	1955	415	1995	1955	1455	1290	955	80
2000	1370	950	2475	2830	475	975	1475	1975	2015	1975	1475	1310	1310	975	80

Dimensions (mm)

03/2023 - Non-contractual photos and diagrams - Subject to typographical errors and technical changes. Photo credit : iStock

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