



Buffer Cylinder 1 Coil

ErP Energy Class

C



SERIES ISPHW 500÷2000 L



Buffer cylinder main feature is the ability to combine multiple sources of heat both as an input or an output and the flexibility to heat the water at different times of day, up to 95 °C. Buffers are an easy way to make most renewable energy projects even more efficient, because they add necessary thermal mass to the system to dampen fast transitions and minimize boiler cycling that occurs during low domestic load conditions.

- Raw carbon steel tank externally painted with powder paint
- High thermal insulation with polyurethane hard foam (PU) on 500 lt model
- Polyester fiber insulation 100 mm + external soft plastic coating (PVC RAL 9010) for SERIES 750÷2000
- Compatible with solar heating system
- Ready to install probe holders with ½ " threaded connection with sensor-clip
- 1" ½ connection for the installation of specific heating element kits up to 9 kW
- Fixed coil for integration with another heat source

WARRANTY:

- 5 YEARS ON THE TANK
- 2 YEARS ON THE OTHER COMPONENTS

AVAILABLE
ON REQUEST

AVAILABLE
ON REQUEST

AVAILABLE
ON REQUEST

TECHNICAL DATA	Size	ISPHW					
		500 L	750 L	950 L	1250 L	1500 L	2000 L
	Code	FU000016	FU000017	FU000018	FU000072	FU000073	FU000074
Capacity	l	490	732	925	1284	1515	2054
Power (ΔT 35°C)*	kW	50,0	67,0	84,0	84,0	101,0	118,0
Heating water production (ΔT 35°C)*	l/h	1238	1651	2064	2064	2477	2890
Heating Time (ΔT 35°C)*	min.	25	29	29	39	39	45
Primary flow rate	m³/h	2,0	2,0	2,0	2,0	2,0	2,0
Insulation thickness	mm	≥50	≥100	≥100	≥100	≥100	≥100
Thermal insulation	[-]	High thermal PU (λ=0,024 W/mK)					
ErP Energy Class	ErP	C	C	C	C	C	D
ErP Heat Loss Watt	W/h	92	117	144	157	170	204
Max. operating temperature	°C	95	95	95	95	95	95
Max. solar coil operating temperature	°C	95	95	95	95	95	95
Max. operating pressure ^{1/2}	MPa	0,3/0,45	0,3/0,45	0,3/0,45	0,3/0,45	0,3/0,45	0,3/0,45
Max. operating pressure Solar coil ^{1/2}	MPa	1,0/1,5	1,0/1,5	1,0/1,5	1,0/1,5	1,0/1,5	1,0/1,5
Heating element (max. length)	mm	650	790	790	X	X	X
Net weight	kg	103	130	156	189	210	278
Heat Loss	[kWh/24h]	2,20	3,10	3,40	3,76	4,08	4,89
Total height (incl. Insulation)	mm	1630	1760	2090	2060	2200	2420
Total height (excl. Insulation)	mm	1621	1686	2041	2017	2152	2377
Ø Diameter (incl. Insulation)	mm	750	990	990	1150	1200	1300
Ø Diameter (excl. Insulation)	mm	750	790	790	950	1000	1000

Notes: * Primary circuit temperature 80°C / Secondary circuit temperature 10-45°C / Primary flow rate indicated in the table

Notes: ¹ Max. operating pressure, ² Max. pressure test according to EN 12897 P.4.4.1

AVAILABLE
ON REQUESTAVAILABLE ON
REQUESTAVAILABLE ON
REQUEST

DIMENSIONS	U.M.	ISPHW					
		500 L	750 L	950 L	1250 L	1500 L	2000 L
Tilt height	mm	1794	1740	2090	2090	2215	2450
Boiler Inlet connection (1)	IG / mm	1"½ / 1381	1"½ / 1426	1"½ / 1720	1"½ / 1700	1"½ / 1750	1"½ / 2025
Inlet heating system (2)	IG / mm	1"½ / 971	1"½ / 1026	1"½ / 1249	1"½ / 1239	1"½ / 1285	1"½ / 1489
Vacant (3)	IG / mm	1"½ / 651	1"½ / 626	1"½ / 844	1"½ / 784	1"½ / 900	1"½ / 959
Outlet heating system (4)	IG / mm	1"½ / 211	1"½ / 256	1"½ / 300	1"½ / 300	1"½ / 350	1"½ / 325
Boiler Inlet connection high temp. (5)	IG / mm	1"½ / 1381	1"½ / 1426	1"½ / 1720	1"½ / 1700	1"½ / 1750	1"½ / 2025
Boiler Inlet connection low temp. (6)	IG / mm	1"½ / 971	1"½ / 1026	1"½ / 1249	1"½ / 1239	1"½ / 1285	1"½ / 1489
Heating return / To generator (7)	IG / mm	1"½ / 651	1"½ / 626	1"½ / 844	1"½ / 784	1"½ / 900	1"½ / 959
Heating return / To generator (8)	IG / mm	1"½ / 211	1"½ / 256	1"½ / 300	1"½ / 300	1"½ / 350	1"½ / 325
Air Vent (S)	IG / mm	1"½ / 1621	1"½ / 1686	1"½ / 2041	1"½ / 2017	1"½ / 2152	1"½ / 2377
Outlet solar coil (RS1)	IG / mm	1" / 211	1" / 256	1" / 300	1" / 300	1" / 350	1" / 325
Inlet solar coil (AS1)	IG / mm	1" / 721	1" / 801	1" / 970	1" / 970	1" / 1000	1" / 1000
Dry-well connection (SD1)	IG / mm	½" / 1381	½" / 1426	½" / 1249	1"½ / 1700	1"½ / 1750	1"½ / 2025
Dry-well connection (SD2)	IG / mm	½" / 971	½" / 1026	½" / 1410	1"½ / 1239	1"½ / 1285	1"½ / 1489
Dry-well connection (SD3)	IG / mm	½" / 651	½" / 626	½" / 844	1"½ / 784	1"½ / 900	1"½ / 959
Dry-well connection (SD4)	IG / mm	½" / 211	½" / 256	½" / 300	1"½ / 300	1"½ / 350	1"½ / 325

Notes : AG = Male fitting, IG = Female fitting

