



Buffer Cylinder 2 Coils

SERIES ISPHWW 750÷2000 L

ErP Energy Class

C



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
- Polyester fiber insulation 100 mm+ external soft plastic coating (PVC RAL 9010)
- Solar compatible
- Ready to install probe holders
- 1" ½ connection for the installation of specific heating element kits up to 9 kW
- 2 fixed coils for integration with other heat sources

WARRANTY:

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

AVAILABLE ON
REQUESTAVAILABLE ON
REQUEST

TECHNICAL DATA	ISPHWW				
	Size	750 L	950 L	1500 L	2000 L
	Code	FU000019	FU000020	FU000075	FU000076
Capacity	l	732	925	1515	2054
Heat exchange surface (Lower coil)	m ²	2,4	3,0	3,6	4,2
Heat exchange surface (Upper coil)	m ²	1,8	2,4	2,4	3,0
Thermal power of the heat exchanger (Lower coil) (ΔT 35°C)*	kW	67,0	84,0	101,0	118,0
Thermal power of the heat exchanger (Upper coil) (ΔT 35°C)*	kW	50,0	67,0	67,0	84
Heating water production (Lower coil) (ΔT 35°C)*	l/h	1651	2064	2477	2890
Heating water production (Upper coil) (ΔT 35°C)*	l/h	1238	1651	1651	2064
Heating Time (Lower coil) (ΔT 35°C)*	min.	25	29	38	43
Heating Time (Upper coil) (ΔT 35°C)**	min.	15	15	23	24
Primary flow rate	m ³ /h	2,0	2,0	2,0	2,0
Insulation thickness	mm	≥100	≥100	≥100	≥100
Thermal insulation	[-]	Polyester fiber insulation 100 mm + PVC			
ErP Energy Class	ErP	C	C	C	D
ErP Heat Loss Watt	W/h	117	144	170	204
Heat Loss	[kWh/24h]	2,80	3,45	4,08	4,89
Max. Operating temperature	°C	95	95	95	95
Max. solar coil operating temperature	°C	110	110	110	110
Max. Operating pressure ^{1/2}	MPa	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
Heating element (max. length)	mm	790	790	1000	1100
Net weight (dry)	kg	154	189	248	322
Total height (incl. Insulation)	mm	1760	2090	2200	2420
Ø Diameter (incl. Insulation)	mm	990	990	1200	1300

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

**With the only use of the upper coil the interested volume will be 40% of the total storage volume.



DIMENSIONS	U.M.	ISPHWW			
		750 L	950 L	1500 L	2000 L
Ø Diameter (without Insulation)	mm	790	790	1000	1100
Tilt height	IG / mm	1740	2090	2215	2450
Boiler Inlet connection (1)	IG / mm	1"½ / 1426	1"½ / 1720	1"½ / 1750	1"½ / 2025
Inlet heating system (2)	IG / mm	1"½ / 1026	1"½ / 1249	1"½ / 1285	1"½ / 1489
Vacant (3)	IG / mm	1"½ / 626	1"½ / 844	1"½ / 900	1"½ / 959
Outlet heating system (4)	IG / mm	1"½ / 256	1"½ / 300	1"½ / 350	1"½ / 325
Boiler Inlet connection high temp. (5)	IG / mm	1"½ / 1426	1"½ / 1720	1"½ / 1750	1"½ / 2025
Boiler Inlet connection low temp. (6)	IG / mm	1"½ / 1026	1"½ / 1249	1"½ / 1285	1"½ / 1489
Heating return / To generator (7)	IG / mm	1"½ / 626	1"½ / 844	1"½ / 900	1"½ / 959
Heating return / To generator (8)	IG / mm	1"½ / 256	1"½ / 300	1"½ / 350	1"½ / 325
Heating element (9)	IG / mm	1"½ / 866	1"½ / 1040	1"½ / 1128	1"½ / 1214
Air Vent (S)	IG / mm	1"½ / 1686	1"½ / 2041	1"½ / 2152	1"½ / 2377
Outlet solar coil (RS1)	IG / mm	1" / 256	1" / 300	1" / 350	1" / 325
Inlet solar coil (AS1)	IG / mm	1" / 801	1" / 970	1" / 1000	1" / 1105
Outlet solar coil (RS2)	IG / mm	1" / 1026	1" / 1180	1" / 1240	1" / 1475
Inlet solar coil (AS2)	IG / mm	1" / 1386	1" / 1720	1" / 1750	1" / 2050
Dry-well connection (SD1)	IG / mm	1"½ / 1426	1"½ / 1720	1"½ / 1750	1"½ / 2025
Dry-well connection (SD2)	IG / mm	1"½ / 1026	1"½ / 1249	1"½ / 1285	1"½ / 1489
Dry-well connection (SD3)	IG / mm	1"½ / 626	1"½ / 844	1"½ / 900	1"½ / 959
Dry-well connection (SD4)	IG / mm	1"½ / 256	1"½ / 300	1"½ / 350	1"½ / 325

Notes : AG = Male fitting, IG = Female fitting

