

Corsun 2

Solar indirect calorifier with double coil



+ PRODUCTS

- Up to 24m² of solar collectors
- Special tank glass lining resistant to high temperatures
- M1/SNC flexible jacket or M0 steel jacket (100mm of insulation)

SUPPLIES

- Steel tank with diamond-quality enamel
- Two enamelled steel coils
- M1/SNC flexible jacket or M0 steel jacket (100mm of insulation)
- Thermometer
- 1/2" connection for thermometer
- Bottom insulation below the tank
- 1 to 2 magnesium anodes (delivered unmounted)
- 1" 1/4 drain at the lowest point on a 112mm removable flange opening
- 3 1/2" opening connections
- Opening connection for thermometer placement
- Ø 112mm flange opening
- Spacers for drain connection (except 500L)
- 2 lifting rings
- **Operating pressure: 8 bar**

WARRANTIES

- Tank: 5 years
- Removable parts: 2 years

REFERENCES

MODELS	USABLE CAPACITY (L)	Ø TANK (mm)	HEIGHT WITH SPACERS (mm)	HEIGHT WITHOUT SPACERS (mm)	M1 FLEXIBLE JACKET 8 bar	M0 STEEL JACKET 8 bar	SNC FLEXIBLE JACKET 8 bar
					REFERENCES	REFERENCES	REFERENCES
Corsun 2 - 500	493	650	-	1950	542 021	542 030	640 440
Corsun 2 - 750	742	790	1985	1935	542 022	542 031	640 441
Corsun 2 - 1000	993	790	2510	2460	542 023	542 032	640 442
Corsun 2 - 1500	1386	1000	2265	2215	542 011	542 013	542 065
Corsun 2 - 2000	2028	1250	2180	2130	542 025	542 034	640 444

TECHNICAL CHARACTERISTICS AND PERFORMANCES

		CORSUN 2 MODELS															
GENERAL CHARACTERISTICS:		500			750			1000			1500			2000			
Min. tank width (mm)		680			800			800			1015			1265			
Tilting dimension ⁽¹⁾ (mm)		1980			1960			2480			2270			2180			
Min. dimension for placing the anode (mm) with spacers (mm)		2450			2385			2810			2815			2730			
Min. height of installation area (mm)		2100			2135			2660			2415			2330			
Empty tank weight (kg)		142			190			235			347			470			
Usable capacity	L	493			742			993			1386			2028			
Heat loss ⁽¹⁾	M1	1.472			1.852			2.250			2.685			3.389			
Ua (W/K)	M0	1.311			1.646			1.997			2.381			3.003			
Pressure loss	mBar	104			128			128			169			128			
Primary flow rate	m ³ /h	4			4			4			4			3			
Primary temperature	°C	70	80	90	70	80	90	70	80	90	70	80	90	70	80	90	
Power at 60°C ⁽²⁾	kW	29	44	54	36	54	70	36	54	70	46	68	88	53	76	98	
Continuous flow at 60°C ⁽²⁾	L/h	504	762	840	618	924	1206	618	924	1206	792	1170	1518	906	1314	1686	
Power at 45°C ⁽²⁾	kW	43	56	68	52	67	82	52	67	82	66	85	104	73	93	113	
Continuous flow at 45°C ⁽²⁾	L/h	1056	1368	1674	1278	1644	2016	1278	1644	2016	1614	2076	2532	1794	2286	2772	
Flow rate 10min at 45°C ⁽³⁾	L	610	615	618	618	919	924	926	1238	1243	1250	1725	1728	1730	2433	2435	2437

(1) Storage at 65°C - Room temperature at 20°C. Values according to RT2012.

(2) Cold water at 2°C. (3) Cold water at 3°C - Storage at 10°C.

DIMENSIONAL SPECIFICATIONS

		CORSUN 2 MODELS				
DESCRIPTIONS	REFERENCES	500	750	1000	1500	2000
TANK CHARACTERISTICS (in mm)						
Tank diameter	Ø	650	790	790	1000	1250
Overall height without spacers	HT	1950	1935	2460	2215	2130
Height with spacers	H	-	1985	2510	2265	2180
Lower return coil	A	397	350	350	425	491
Lower input coil	B	778	731	729	802	866
Height of the opening	C1	940	937	1400	1183	1000
Cold water inlet	D	250	200	200	320	320
Return loop	E	970	937	1200	1077	1011
Height under drain	F	110		60		
Upper return coil	G	1172	1138	1653	1334	1203
Upper input coil	J	1553	1517	2032	1711	1578
Sensor connection	1	1/2" connections				
Thermometer connection	2	F 15/21				
Primary network coil connection	3	F 33/42				
Cold water (CW) / hot water (HW) / return loop (RL)	4	M 40/49			M 50/60	
Drain	5	F 33/42				
COIL CHARACTERISTICS						
Solar coil	Area (m ²)	1.49	1.49	1.84	2.42	3.08
	Solar volume (L) ⁽¹⁾	313	469	714.6	891	1216
	Interior volume (L) ⁽²⁾	9.1	9.1	11.2	14.8	18.9
Booster coil	Area (m ²)	1.49	1.84	1.84	2.42	3.08
	Additional volume (L) ⁽¹⁾	180	273	278	495	812

(1) Tank water volume.

(2) Coil water volume.



Intermediate and low position connections on Corsun 2 tank. Maximum length of thermowell 120mm.

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