

Corsun 1

Solar tank / 1 coil
Environmentally-friendly solution
5 models available



CHARACTERISTICS

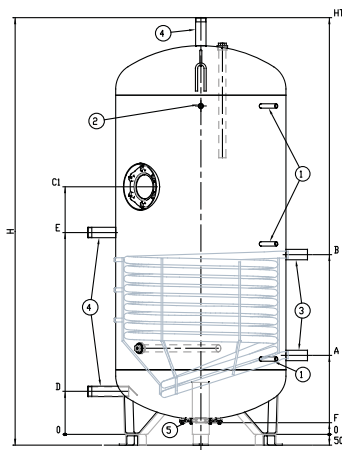
- Enamelled steel tank
- Operating pressure 8 bar
- Steel coil, enamelled
- Heating Element: 1 Coil Exchanger
- Insulation and external jacket: flexible SNC (100 mm high density PU foam and PVC jacket)
- Insulated bottom (below tank)
- Magnesium anode 200 g/m² (supplied unmounted)
- 1/2" connection tap for thermometer
- Thermometer
- 4 connection taps
- 1" 1/4 drain at the bottom of the tank
- 3 blind thermowells (20 mm penetration length inside tank) for temperature sensors
- Ø 112 mm flange or Ø 400 mm manhole, with insulation
- 3 feet (included)
- 50 mm high risers (not for 500 L model)
- 2 hoist rings
- Warranty:
 - 5 years for tank
 - 2 years for parts

OPTIONS

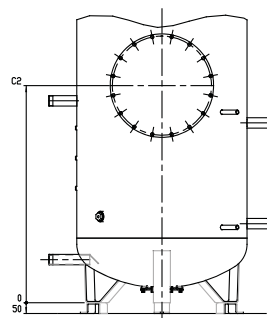
- 5 to 30 kW electric sheathed heating element kits (for models with flange) available for special orders
- Additional equipment: loop reheater



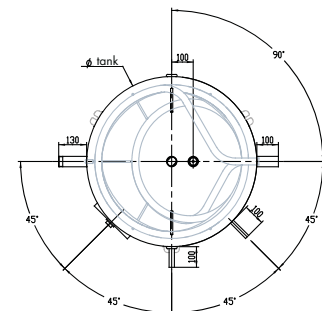
500 L - 2000 L



Front view with flange



Front view with manhole



Top view

TANK CHARACTERISTICS

	Corsun 1 models															
	500			750			1000			1500			2000			
REFERENCES	640420			640421			640422			541039			640426			
TECHNICAL CHARACTERISTICS AND PERFORMANCE																
Usable capacity (L)	505			750			999			1392			2031			
Dimension passageway (mm)	Flange	680			800			800			1015			1265		
	Manhole	-			880			880			1055			1270		
Tilting dimension (mm) ^[1]	1980			1960			2480			2270			2180			
Minimum installation height to put the anode (mm) with risers	2250			2385			3210			3165			2730			
Minimum installation height (mm)	2100			2135			2660			2415			2330			
Empty tank weight (kg)	Flange	115			165			205			309			455		
	Manhole	-			195			235			339			485		
Thermal losses (W/K) ^[2]	Flexible M1 insulation	1.472			1.852			2.250			2.685			3.389		
	Steel TMO insulation	1.311			1.646			1.997			2.381			3,003		
Pressure loss (mBar)	104			158			122			172			239			
Primary flow rate (m ³ /h)	4			4			3			3			3			
Primary temperature (°C)	70	80	90	70	80	90	70	80	90	70	80	90	70	80	90	
Power at 60 °C (kW) ^[3]	30	45	59	44	65	85	51	75	96	66	95	122	84	118	141	
Continuous flow at 60 °C (L/h) ^[3]	510	768	1008	756	1116	1452	882	1284	1644	1140	1638	2088	1440	2034	2214	
Power at 45 °C (kW) ^[4]	44	56	69	63	81	98	71	91	110	91	115	138	112	140	168	
Continuous flow at 45 °C (L/h) ^[3]	1068	1380	1692	1542	1980	2412	1752	2232	2700	2226	2814	3396	2742	3438	4122	

DIMENSIONAL CHARACTERISTICS (IN MM)

ø DN	ø tank	650			790			790			1000			1250		
Overall height without risers	HT	1950			1935			2460			2215			2130		
Height with risers	H	-			1985			2510			2265			2180		
Return coil	A	397			367			367			442			627		
Input coil	B	778			834			965			1083			1240		
Flange opening height	C1	1190			1150			1500			1385			1451		
Manhole opening height	C2	-			1008			1108			1183			749		
Domestic cold water input	D	250			200			200			320			320		
Return loop	E	970			937			1200			1132			1007		
Height under drain	F	110			60											
Sensor tube	1	Ø interior 15														
Thermometer tube	2	F 15/21														
Coil connexion	3	F 33/42														
DCW / DHW / RL	4	M 40/49						M 50/60								
Draining	5	F 33/42														

CHARACTERISTICS: COIL AND HEATING ELEMENT

Solar										
Area (m ²)	1.49		2.26		2.94		4.12		5.72	
Interior volume (L)	9.1		13.8		18		25.2		35	
Capacity heated by coil (L)	505		750		999		1392		2031	
Heating data										
Capacity heated by heating element (from 5 to 25KW) (L)	248		378		463		630		755	
Capacity heated by 30 kW heating element (L)	199		301		385		506		562	
Heat-up time with heating element (5 kW)	3h00		4h30		5h15		7h15		8h45	
Heat-up time with heating element (10 kW)	1h30		2h15		2h30		3h45		4h30	
Heat-up time with heating element (15 kW)	-		1h30		1h45		2h30		3h00	
Heat-up time with heating element (25 kW)	-		0h45		1h00		1h30		1h45	
Heat-up time with heating element (30 kW)	0h30		0h30		0h45		1h00		1h00	

(1) Risers not mounted. (2) Storage at 65 °C - Room temperature 20 °C. Values determined according to European Standards in force. Add 0.176 W/K for manhole models. (3) Cold water at 10 °C. (4) Cold water at 10 °C - Storage at 60 °C.