

# Corfirst

Multi-energy indirect & combi calorifier



## + PRODUCTS

- Compatible with solar collectors (up to 40m<sup>2</sup> and 30m<sup>2</sup> with electric heating element kit) and boilers (gas, oil and wood)
- 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
- Enamelled steel coil
- 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
- 3 1/2" opening connections
- Through hole connection for thermometer placement
- Ø 112mm flange
- Spacers for drain connection (except 500L)
- 2 lifting rings
- **Operating pressure: 8 bar**

### OPTIONS & ACCESSORIES

- 5 to 30kW sheathed electric heating element kit (for models equipped with a flange) with security and regulating aquastat unit (factory setting to 65°C, which can be set to between 18 and 80°)

### 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
Corfirst - 500	505	650	-	1950	541 000	541 010	640 420
Corfirst - 750	750	790	1985	1935	541 001	541 011	640 421
Corfirst - 1000	999	790	2510	2460	541 002	541 012	640 422
Corfirst - 1500	1392	1000	2265	2215	541 033	541 035	541 039
Corfirst - 2000	2031	1250	2180	2130	541 004	541 014	640 426

OPTIONS & ACCESSORIES	VOLTAGE (V)	WITH FLANGE
		REFERENCES
5kW sheathed heating element kit for 500 to 2000L Corfirst	3-phase 230/400V 3~	029 405
10kW sheathed heating element kit for 500 to 2000L Corfirst	3-phase 230/400V 3~	029 406
15kW sheathed heating element kit for 750 to 2000L Corfirst	3-phase 230/400V 3~	029 407
25kW sheathed heating element kit for 750 to 2000L Corfirst	3-phase 230/400V 3~	029 408
30kW sheathed heating element kit for 500 to 2000L Corfirst	3-phase 400V 3~	029 419

Provide a contactor relay and a safety valve (not supplied).

## TECHNICAL CHARACTERISTICS AND PERFORMANCES

		CORFIRST MODELS														
GENERAL CHARACTERISTICS:		500			750			1000			1500			2000		
Min. tank width (mm)		680			800			800			1015			1265		
Tilting dimension <sup>(1)</sup> (mm)		1980			1960			2480			2270			2180		
Min. dimension for placing the anode (mm) with spacers		2250			2385			3210			3165			2730		
Min. height of installation area (mm)		2100			2135			2660			2415			2330		
Empty tank weight (kg)		115			165			205			309			455		
Heat loss <sup>(1)</sup>	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		
Usable capacity	L	505			750			999			1392			2031		
Pressure loss	mBar	104			158			122			172			239		
Primary flow rate	m <sup>3</sup> /h	4			4			3			3			3		
Additional volume	L	205			309			393			604			470		
Primary temperature	°C	70	80	90	70	80	90	70	80	90	70	80	90	70	80	90
Power at 60°C <sup>(2)</sup>	kW	30	45	59	44	65	85	51	75	96	66	95	122	84	118	141
Continuous flow at 60°C <sup>(2)</sup>	L/h	510	768	1008	756	1116	1452	882	1284	1644	1140	1638	2088	1440	2034	2214
Power at 45°C <sup>(2)</sup>	kW	44	56	69	63	81	98	71	91	110	91	115	138	112	140	168
Continuous flow at 45°C <sup>(2)</sup>	L/h	1068	1380	1692	1542	1980	2412	1752	2232	2700	2226	2814	3396	2742	3438	4122
Flow rate 10min at 45°C <sup>(3)</sup>	L	603	609	612	910	914	917	1225	1231	1238	1708	1711	1712	2408	2411	2412

(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

		CORFIRST MODELS				
DESCRIPTIONS	REFERENCES	500	750	1000	1500	2000
<b>TANK CHARACTERISTICS</b>						
Tank diameter	∅	650	790	790	1000	1250
Overall height without spacers	HT	1950	1935	2460	2215	2130
Height with spacers	H	-	1985	2510	2265	2180
Return coil	A	397	367	367	442	627
Input coil	B	778	834	965	1083	1240
Height of the opening	C1	1190	1150	1500	1385	1451
Cold water inlet	D	250	200	200	320	320
Return loop	E	970	937	1200	1132	1007
Height under drain	F	110			60	
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		
<b>COIL CHARACTERISTICS</b>						
Solar coil	Area (m <sup>2</sup> )	1.49	2.26	2.94	4.12	5.72
	Interior volume (L)	9.1	13.8	18	25.2	35



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

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