



HRO 580-7C 03.120 Scr

COOLING AND HEATING PERFORMANCES

EWT (°C)	Water Flow (l/s)	COOLING Entering Air : 25°C : 50 % RH						HEATING Entering air : 19°C			
		COOLING (W)		COMP (W)	THR (W)	Sensible / total	EF	HEATING (W)	COMP (W)	THA (W)	COP
		Total	Sensible								
13	0.22	13960	11520	2540	16805	0.83	5.03				
15	0.22	13435	11320	2610	16350	0.84	4.72				
16	0.68							13535	2585	10645	4.80
	0.5							13140	2515	10320	4.78
	0.37							12885	2495	10085	4.72
18	0.68							13870	2635	10930	4.83
	0.5							13400	2550	10545	4.81
	0.37							13170	2515	10350	4.79
20	0.68	14380	11680	2225	16910	0.81	5.85	14250	2705	11240	4.85
	0.5	14100	11570	2340	16745	0.82	5.48	13760	2620	10835	4.82
	0.37	13500	11350	2480	16285	0.84	4.97	13400	2550	10545	4.81
25	0.68	13800	11460	2580	16685	0.83	4.90	15300	2885	12110	4.90
	0.5	13265	11250	2695	16265	0.85	4.53	14745	2790	11650	4.87
	0.37	13005	11140	2820	16130	0.86	4.26	14360	2740	11315	4.83
27	0.68	13300	11265	2710	16315	0.85	4.52	15530	2900	12325	4.95
	0.5	12750	11060	2770	15825	0.87	4.24	15150	2840	12005	4.93
	0.37	12535	10970	2885	15725	0.88	4.02	14610	2775	11530	4.85
31	0.68	12570	10990	2925	15800	0.87	3.98	16060	2915	12840	5.10
	0.5	12210	10850	3035	15550	0.89	3.73	15660	2850	12505	5.08
	0.37	11860	10720	3180	15345	0.90	3.47	15150	2815	12030	4.97
35	0.68	11810	10720	3205	15320	0.91	3.43				
	0.5	11585	10615	3290	15180	0.92	3.29				
	0.37	11340	10520	3420	15065	0.93	3.10				
38	0.68	11280	10500	3450	15035	0.93	3.06				
	0.5	11045	10410	3535	14885	0.94	2.93				
	0.37	10760	10385	3640	14705	0.97	2.78				
40	0.68	11090	10430	3610	15005	0.94	2.88				
	0.5	10785	10320	3670	14760	0.96	2.76				
	0.37	10565	10250	3790	14660	0.97	2.62				
43	0.68	10400	10400	4040	14745	1.00	2.43				
	0.5	10290	10290	4125	14720	1.00	2.36				
	0.37	9890	9890	4245	14440	1.00	2.21				
46	0.68	9945	9945	4300	14550	1.00	2.19				
	0.5	9545	9545	4430	14280	1.00	2.05				
	0.37	9130	9130	4630	14065	1.00	1.88				
48	0.68	9405	9405	4470	14180	1.00	2.00				
	0.5	9095	9095	4610	14010	1.00	1.88				
	0.37	8750	8750	4740	13795	1.00	1.76				

All performances quoted at nominal airflow [Medium]

Sales [France]

8bis rue Escudier, 92100 BOULOGNE BILLANCOURT
Paris
Tel : 0033 155 380 170

Fax : 0033 155 380 180

Web Site : www.france-energie.fr

Sales [UK]

Carlyle Environmental Ltd
15 Little Orchard, Carlton Rd, Headley Down, Hants GU35 8JW

Tel : 01428 714784

Fax : 01428 714784

COOLING CORRECTION FACTORS *

27-janv-03 DT 0232

EWT °C	EAT % RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT					COMP W	THR EAT : 25°C
			22°C	23°C	24°C	25°C	26°C		
			20	40	0.942	0.933	0.968		
to	50	1.000	0.933	0.939	0.970	1.000	1.030	1.000	1.000
38	60	1.060	0.870	0.899	0.928	0.956	0.984	1.023	1.050
39	40	1.000	0.881	0.921	0.960	1.000	1.039	1.000	1.000
to	50	1.000	0.881	0.921	0.960	1.000	1.039	1.000	1.000
48	60	1.054	0.839	0.872	0.904	0.937	0.967	1.041	1.048

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.033	1.000	0.968	0.936

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.37	0.5	0.68
ΔD [Pa]	16.07	28.32	51.94

AIR FLOW [m3/h] AGAINST EXTERNAL RESISTANCE **

Speed	External Static [Pa]							Nominal		
	0	1	3	5	7	9	11	6	8	9
Low	2950	2900	2850	2800	2500	2350	2200	2750		
Medium	3550	3450	3350	3250	3100	2900	2600		3000	
High	4100	3900	3800	3700	3400	3200	2850			3200

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %	80	90	100	110	120		Low	Medium	High
Heating	0.884	0.946	1.000	1.046	1.084		0.955	1.000	1.027
Total Cooling	0.873	0.939	1.000	1.038	1.055		0.950	1.000	1.021
Sensible Cooling	0.755	0.871	1.000	1.069	1.096		0.893	1.000	1.061

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr W			Max Absorb Pwr
		low	medium	high	F/L	Start	low	medium	high	
400	3	2.30	2.60	3.40	6	50	475	540	705	7200

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
5 Core 2.5mm	Fused Switched Spur

* Based on Nominal Water flow

** With clean filter