



HRO 500-7C 03.85 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	0.14	9080	7830	1630	10860	0.86	4.83				
15	0.14	8850	7740	1760	10760	0.87	4.40				
16	0.514							9240	2030	7060	4.05
	0.36							9055	1995	6910	4.03
	0.25							8760	1930	6680	4.02
18	0.514							9680	2060	7470	4.19
	0.36							9510	2030	7330	4.17
	0.25							9200	1965	7085	4.15
20	0.514	9610	8030	1550	11310	0.84	5.34	9925	2075	7700	4.27
	0.36	9445	7970	1610	11205	0.84	5.08	9820	2055	7615	4.26
	0.25	9135	7850	1710	10995	0.86	4.66	9500	1990	7360	4.24
25	0.514	9260	7900	1770	11180	0.85	4.58	10255	2085	8020	4.39
	0.36	9055	7815	1850	11055	0.86	4.31	10130	2070	7910	4.37
	0.25	8720	7690	1960	10830	0.88	3.95	9925	2030	7745	4.35
27	0.514	9015	7800	1885	11050	0.87	4.22	10420	2095	8175	4.44
	0.36	8800	7720	2000	10950	0.88	3.91	10310	2075	8085	4.43
	0.25	8525	7610	2070	10745	0.89	3.67	10100	2040	7910	4.41
31	0.514	8480	7600	2080	10710	0.90	3.64	10835	2100	8585	4.61
	0.36	8305	7530	2160	10615	0.91	3.45	10675	2080	8445	4.58
	0.25	8045	7430	2225	10420	0.92	3.25	10405	2050	8205	4.52
35	0.514	8000	7410	2300	10450	0.93	3.14				
	0.36	7810	7340	2355	10315	0.94	3.00				
	0.25	7520	7145	2445	10115	0.95	2.79				
38	0.514	7465	7165	2430	10045	0.96	2.79				
	0.36	7240	7020	2500	9890	0.97	2.63				
	0.25	6960	6960	2570	9680	1.00	2.47				
40	0.514	7100	7100	2550	9800	1.00	2.54				
	0.36	6900	6900	2600	9650	1.00	2.42				
	0.25	6525	6525	2670	9345	1.00	2.23				
43	0.514	6590	6590	2700	9440	1.00	2.23				
	0.36	6330	6330	2780	9260	1.00	2.09				
	0.25	5990	5990	2900	9040	1.00	1.90				
46	0.514	5990	5990	3000	9140	1.00	1.84				
	0.36	5790	5790	3100	9040	1.00	1.73				
	0.25	5420	5420	3190	8760	1.00	1.58				
48	0.514	5670	5670	3170	8990	1.00	1.66				
	0.36	5525	5525	3235	8910	1.00	1.59				
	0.25	5145	5145	3350	8645	1.00	1.43				

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 *

22-janv-03 **DT 0234**

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	0.970	0.916	0.953	0.992	1.000	1.068	0.975	0.972
to	50	1.000	0.916	0.953	0.967	1.000	1.033	1.000	1.000
38	60	1.083	0.871	0.904	0.938	0.969	0.996	1.030	1.068
39	40	1.000	0.860	0.907	0.953	1.000	1.045	1.000	1.000
to	50	1.000	0.860	0.907	0.953	1.000	1.045	1.000	1.000
48	60	1.043	0.854	0.884	0.925	0.965	0.995	1.035	1.039

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.035	1.000	0.965	0.932

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.25	0.36	0.514
ΔD [kPa]	1.76	3.43	6.76

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

Speed	External Static [Pa]							Nominal		
	0	19.6	39.2	58.8	78.4	98	117.6	68.6	78.4	78.4
Low	2040	2000	1950	1900	1850	1750	1580	1880		
Medium	2450	2370	2280	2150	2000	1850	1700		2000	
High	2450	2370	2280	2150	2000	1850	1700			2000

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.871	0.940	1.000	1.052	1.095		0.965	1.000	1.000
Total Cooling	0.854	0.930	1.000	1.066	1.083		0.959	1.000	1.000
Sensible Cooling	0.743	0.866	1.000	1.082	1.115		0.919	1.000	1.000

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr W			Max Abs Pwr	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	1.36	1.85	1.85	10.2	76	300	400	400	4400	20

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
3 Core 4.0 mm	Fused Switched Spur

* Based on Nominal Water flow

** With clean filter