



HRO 250-7C 00.24 R

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								
10	0.139							2380	750	1630	2.77
	0.100							2305	710	1595	2.81
	0.069							2080	690	1390	2.60
16	0.139							2725	750	1975	3.17
	0.100							2595	715	1880	3.15
	0.069							2315	710	1605	2.82
18	0.139							2900	780	2120	3.26
	0.100							2820	735	2085	3.34
	0.069							2625	725	1900	3.14
20	0.139	2895	2260	745	3640	0.78	3.89	2965	780	2185	3.33
	0.100	2825	2230	760	3585	0.79	3.72	2945	760	2185	3.39
	0.069	2650	2175	805	3455	0.82	3.29	2845	745	2100	3.33
25	0.139	2665	2185	795	3460	0.82	3.35	3135	800	2335	3.45
	0.100	2605	2160	820	3425	0.83	3.18	3090	765	2325	3.53
	0.069	2540	2135	845	3385	0.84	3.01	2940	760	2180	3.38
27	0.139	2550	2140	820	3370	0.84	3.11	3200	800	2400	3.52
	0.100	2510	2110	840	3350	0.84	2.99	3165	775	2390	3.58
	0.069	2440	2075	875	3315	0.85	2.79	3035	775	2260	3.43
31	0.139	2455	2085	860	3315	0.85	2.85	3310	815	2495	3.58
	0.100	2370	2040	870	3240	0.86	2.72	3275	810	2465	3.56
	0.069	2250	2000	885	3135	0.89	2.54	3195	790	2405	3.55
35	0.139	2295	2020	895	3190	0.88	2.56				
	0.100	2270	2020	905	3175	0.89	2.51				
	0.069	2135	1960	945	3080	0.92	2.26				
38	0.139	2240	1995	905	3145	0.89	2.48				
	0.100	2160	1965	925	3085	0.91	2.34				
	0.069	2065	1940	950	3015	0.94	2.17				
40	0.139	2135	1965	930	3065	0.92	2.30				
	0.100	2045	1920	930	2975	0.94	2.20				
	0.069	1820	1745	960	2780	0.96	1.90				
43	0.139	1990	1890	950	2940	0.95	2.09				
	0.100	1915	1840	970	2885	0.96	1.97				
	0.069	1620	1570	985	2605	0.97	1.64				
46	0.139	1900	1825	1000	2900	0.96	1.90				
	0.100	1750	1700	1030	2780	0.97	1.70				
	0.069	1600	1565	1050	2650	0.98	1.52				
48	0.139	1760	1705	1030	2790	0.97	1.71				
	0.100	1600	1565	1050	2650	0.98	1.52				

All performances based on nominal airflow [medium]

Manufacturer FRANCE ENERGIE & Cie
Parc d'Activités des Morandières - Rue Copernic
53810 CHANGE LES LAVAL - France
Tél. : 0033 02 43 59 73 80

Fax : 0033 02 43 56 20 20

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 *

EWT °C	EAT % RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT			COMP	THR EAT : 25°C
			24°C	25°C	26°C		
25 to 38	40	0.930	1.024	1.051	1.057	0.979	0.945
	45	0.958	1.006	1.014	1.038	0.990	0.968
	50	1.000	0.993	1.000	1.021	1.000	1.000
39 to 48	40	0.945	1.009	1.017	1.033	0.975	0.957
	45	0.969	1.000	1.003	1.024	0.988	0.976
	50	1.000	0.982	1.000	1.012	1.000	1.000

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.043	1.000	0.982	0.960

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.069	0.099	0.139
_P [kPa]	20.580	31.360	49.980

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

Speed	External Static [Pa]						Nominal		
	0	19.6	39.2	58.8			39.2	49	29.4
Low	625	600	550	500			550		
Medium	675	650	625	550				600	
High	700	650	600	575					625

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.912	0.9570	1.000	1.060	1.128	1.440	0.960	1.000	1.034
Total Cooling	0.919	0.984	1.000	1.028	1.049	1.065	0.987	1.000	1.013
Sensible Cooling	0.779	0.941	1.000	1.039	1.095	1.132	0.946	1.000	1.016

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr			Max Absorb Pwr	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	0.50	0.55	0.60	3.79	19	110	120	130	1250	6

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection	Master/Slave Interconnection
3 Core 1.5mm	Fused Switched Spur	Master/Slave : 8 core 1.0mm Thermostat : 10 core 1.0mm

* Based on Nominal Water Flow

** With clean filter