



HRO 250-7C 00.21 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							2590	770	1820	3.01
	0.097							2505	765	1740	2.93
	0.064							2250	760	1490	2.65
16	0.139							2700	785	1915	3.09
	0.097							2675	770	1905	3.11
	0.064							2560	770	1790	2.98
18	0.139							2745	785	1960	3.14
	0.097							2725	775	1950	3.15
	0.064							2580	770	1810	3.00
20	0.139	2550	1785	760	3310			2805	785	2020	3.21
	0.097	2470	1780	795	3265			2780	780	2000	3.20
	0.064	2410	1735	820	3230			2665	780	1885	3.06
25	0.139	2465	1775	815	3280	0.72	3.02	2885	790	2095	3.28
	0.097	2350	1715	820	3170	0.73	2.87	2845	790	2055	3.23
	0.064	2190	1665	855	3045	0.76	2.56	2780	780	2000	3.20
27	0.139	2310	1685	830	3140	0.73	2.78	2975	820	2155	3.27
	0.097	2240	1680	845	3085	0.75	2.65	2935	810	2125	3.26
	0.064	2100	1617	895	2995	0.77	2.35	2860	810	2050	3.18
31	0.139	2196	1650	880	3076	0.75	2.50	3075	830	2245	3.34
	0.097	2160	1640	885	3045	0.76	2.44	3010	820	2190	3.31
	0.064	1930	1545	920	2850	0.80	2.10	2930	820	2110	3.22
35	0.139	2125	1635	915	3040	0.77	2.32				
	0.097	2025	1580	925	2950	0.78	2.19				
	0.064	1845	1510	970	2815	0.82	1.90				
38	0.139	1990	1570	930	2920	0.79	2.14				
	0.097	1880	1540	950	2830	0.82	1.98				
	0.064	1710	1455	985	2695	0.85	1.74				
40	0.139	1950	1560	955	2905	0.80	2.04				
	0.097	1830	1500	970	2800	0.82	1.89				
	0.064	1605	1410	1025	2630	0.88	1.57				
43	0.139	1890	1550	965	2855	0.82	1.96				
	0.097	1715	1460	1015	2730	0.85	1.69				
	0.064	1550	1395	1040	2590	0.90	1.49				
46	0.139	1835	1505	995	2830	0.82	1.84				
	0.097	1670	1450	1035	2705	0.87	1.61				
	0.064	1490	1385	1035	2525	0.93	1.44				
48	0.139	1760	1480	1020	2780	0.84	1.73				

All performances quoted at nominal airflow [low]

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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	0.936	1.039	1.049	1.054	0.973	0.948
	45	0.967	1.014	1.036	1.047	0.989	0.973
	50	1.000	0.994	1.000	1.022	1.000	1.000
39 to 48	40	0.948	1.009	1.019	1.046	0.970	0.957
	45	0.973	1.003	1.008	1.030	0.987	0.978
	50	1.000	0.984	1.000	1.012	1.000	1.000

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.041	1.000	0.979	0.956

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.064	0.097	0.139
_P [kPa]	17.64	29.40	51.94

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

Speed	External Static [Pa]						Nominal		
	0	19.6	39.2	58.8			39.2	39.2	39.2
Low	575	525	500	450			500		
Medium	600	550	525	475				525	
High	625	600	575	500					575

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.931	0.962	1.000	1.043	1.080	1.160	1.000	1.022	1.067
Total Cooling	0.919	0.987	1.000	1.024	1.048	1.070	1.000	1.031	1.034
Sensible Cooling	0.705	0.812	1.000	1.033	1.092	1.127	1.000	1.015	1.065

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr			Max absorb. Pwr	Fuse Rating (Am)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	0.41	0.43	0.45	3.71	19	90	95	100	1200	6

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water flow

** With clean filter