



HRO 500-7C 03.70 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	0.12	7700	6080	1505	9365	0.79	4.57				
15	0.12	7520	6010	1600	9280	0.80	4.22				
16	0.4							7160	1785	5215	3.64
	0.31							6920	1740	5020	3.60
	0.21							6325	1720	4445	3.33
18	0.4							7320	1825	5335	3.65
	0.31							7250	1820	5270	3.63
	0.21							6590	1775	4655	3.37
20	0.4	7845	6140	1480	9485	0.78	4.73	7585	1890	5535	3.66
	0.31	7780	6110	1500	9440	0.79	4.63	7360	1845	5355	3.63
	0.21	7625	6055	1610	9395	0.79	4.26	6695	1800	4735	3.38
25	0.4	7495	6005	1665	9320	0.80	4.06	7760	1930	5670	3.68
	0.31	7435	5950	1685	9280	0.80	3.99	7600	1900	5540	3.65
	0.21	7235	5905	1785	9180	0.82	3.68	7110	1865	5085	3.48
27	0.4	7300	5930	1775	9235	0.81	3.73	7910	1965	5785	3.69
	0.31	7245	5910	1795	9200	0.82	3.67	7630	1905	5565	3.66
	0.21	7010	5820	1915	9085	0.83	3.35	7210	1875	5175	3.51
31	0.4	7035	5830	1920	9115	0.83	3.35	7980	1975	5845	3.70
	0.31	6930	5790	1960	9050	0.84	3.24	7700	1915	5625	3.68
	0.21	6720	5710	2090	8970	0.85	2.96	7540	1890	5490	3.64
35	0.4	6720	5710	2100	8980	0.85	2.95				
	0.31	6550	5650	2170	8880	0.86	2.79				
	0.21	6285	5550	2305	8750	0.88	2.53				
38	0.4	6420	5600	2250	8830	0.87	2.64				
	0.31	6190	5510	2350	8700	0.89	2.45				
	0.21	5880	5400	2470	8510	0.92	2.22				
40	0.4	6045	5455	2405	8610	0.90	2.34				
	0.31	5950	5420	2470	8580	0.91	2.25				
	0.21	5615	5300	2620	8395	0.94	2.01				
43	0.4	5830	5380	2555	8545	0.92	2.13				
	0.31	5545	5160	2625	8330	0.93	1.98				
	0.21	5260	4995	2760	8180	0.95	1.79				
46	0.4	5315	5010	2825	8300	0.94	1.77				
	0.31	5150	4945	2855	8165	0.96	1.70				
	0.21	4865	4865	2995	8020	1.00	1.53				
48	0.4	5055	4850	2910	8125	0.96	1.64				
	0.31	4950	4875	2980	8090	0.98	1.57				
	0.21	4705	4705	3045	7910	1.00	1.46				

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

22-janv-03 **DT0233**

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	0.931	0.941	0.976	1.010	1.046	1.081	0.941	0.935
to	50	1.000	0.912	0.941	0.977	1.000	1.027	1.000	1.000
38	60	1.074	0.871	0.900	0.926	0.953	0.981	1.088	1.076
39	40	0.987	0.910	0.947	0.987	1.002	1.062	0.979	0.984
to	50	1.000	0.910	0.947	0.987	1.000	1.032	1.000	1.000
48	60	1.046	0.859	0.891	0.921	0.951	0.981	1.077	1.054

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.031	1.000	0.968	0.937

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.21	0.31	0.4
ΔD [kPa]	1.57	3.14	5.29

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

Speed	External Static [Pa]							Nominal		
	0	19.6	39.2	58.8	78.4	98	107.8	88.2	98	98
Low	2100	2050	1950	1850	1750	1550	1400	1650		
Medium	2350	2300	2225	2100	1950	1750	1550		1750	
High	2350	2300	2225	2100	1950	1750	1550			1750

Nominal flow in Bold

AIRFLOW CORRECTION FACTORS *

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating		0.952	1.000	1.039	1.073	1.099	0.975	1.000	1.000
Total Cooling		0.942	1.000	1.054	1.104	1.130	0.966	1.000	1.000
Sensible Cooling		0.887	1.000	1.067	1.131	1.173	0.935	1.000	1.000

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr W			Max Absorb Pwr	Fuse rating (A)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	1.15	1.55	1.55	9.6	61	250	340	340	3800	20

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water flow

** With clean filter