



HRO 420-7C 03.55 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	TOT (W)	COMP (W)	THA (W)	COP
		Total	Sensible								
13	0.097	5700	4830	1105	6940	0.85	4.62				
15	0.097	5570	4780	1145	6850	0.86	4.37				
16	0.33							5920	1340	4445	4.03
	0.24							5785	1310	4340	4.02
	0.17							5760	1305	4320	4.01
18	0.33							6110	1365	4610	4.09
	0.24							6010	1350	4525	4.06
	0.17							5880	1325	4420	4.04
20	0.33	5945	4930	1060	7140	0.83	5.00	6425	1405	4885	4.19
	0.24	5890	4900	1095	7120	0.83	4.81	6325	1390	4800	4.16
	0.17	5795	4865	1150	7080	0.84	4.53	6195	1370	4690	4.13
25	0.33	5810	4870	1180	7125	0.84	4.44	6725	1440	5150	4.28
	0.24	5725	4840	1250	7110	0.85	4.15	6590	1425	5030	4.24
	0.17	5660	4810	1260	7055	0.85	4.07	6485	1410	4940	4.21
27	0.33	5700	4830	1280	7115	0.85	4.04	6900	1450	5315	4.37
	0.24	5650	4810	1295	7080	0.85	3.96	6865	1445	5285	4.36
	0.17	5605	4790	1305	7045	0.85	3.91	6710	1430	5145	4.30
31	0.33	5535	4770	1430	7100	0.86	3.55	7060	1480	5445	4.39
	0.24	5460	4730	1465	7060	0.87	3.42	7000	1470	5395	4.38
	0.17	5375	4705	1500	7010	0.88	3.30	6820	1450	5235	4.32
35	0.33	5345	4700	1605	7085	0.88	3.08				
	0.24	5200	4640	1645	6980	0.89	2.93				
	0.17	5090	4600	1700	6925	0.90	2.78				
38	0.33	5140	4620	1700	6975	0.90	2.81				
	0.24	5085	4595	1710	6930	0.90	2.76				
	0.17	4950	4550	1825	6910	0.92	2.53				
40	0.33	5030	4580	1765	6930	0.91	2.65				
	0.24	4935	4545	1810	6880	0.92	2.54				
	0.17	4815	4500	1880	6830	0.93	2.40				
43	0.33	4830	4505	1940	6905	0.93	2.33				
	0.24	4730	4470	1980	6845	0.95	2.24				
	0.17	4620	4440	2065	6820	0.96	2.10				
46	0.33	4690	4450	2040	6865	0.95	2.16				
	0.24	4440	4440	2160	6735	1.00	1.94				
	0.17	4410	4410	2165	6710	1.00	1.92				
48	0.33	4355	4355	2260	6750	1.00	1.82				
	0.24	4140	4140	2330	6605	1.00	1.68				
	0.17										

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

22-janv-03 DT 0230

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	0.904	0.945	0.979	0.988	1.000	1.084	0.964	0.920
to	50	1.000	0.945	0.945	0.972	1.000	1.270	1.000	1.000
38	60	1.090	0.865	0.892	0.917	0.943	0.968	1.067	1.083
39	40	1.000	0.890	0.928	0.950	1.000	1.035	1.000	1.000
to	50	1.000	0.890	0.928	0.950	1.000	1.000	1.000	1.000
48	60	1.020	0.831	0.857	0.875	0.912	0.939	1.035	1.024

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.030	1.000	0.970	0.940

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.17	0.24	0.33
ΔD [kPa]	1.57	2.90	5.60

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

Speed	External Static [Pa]							Nominal		
	0	19.6	39.2	58.8	78.4	98	117.6	88.2	98	98
Low	1550	1540	1520	1500	1450	1350	1250	1400		
Medium	1850	1800	1750	1680	1580	1450	1270		1450	
High	2150	2050	1950	1820	1700	1550	1350			1550

Nominal flow in Bold

AIR FLOW CORRECTION FACTOR *

Air Flow %	80	90	100	110	120	128	Low	Medium	High
Heating	0.911	0.959	1.000	1.032	1.058	1.076	0.977	1.000	1.015
Total Cooling	0.900	0.953	1.000	1.042	1.082	1.116	0.984	1.000	1.029
Sensible Cooling	0.792	0.893	1.000	1.084	1.126	1.161	0.970	1.000	1.087

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	1.18	1.27	1.70	6.8	47	245	265	350	3050	16

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water flow

** With clean filter