



HRO 580-7C 03.100 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	0.17	10485	9270	2260	12975	0.88	4.25				
15	0.17	10270	9180	2340	12840	0.89	4.04				
16	0.6							11345	2260	8855	4.60
	0.42							10855	2190	8435	4.53
	0.29							10135	2185	7720	4.24
18	0.6							11700	2290	9180	4.69
	0.42							11395	2240	8925	4.66
	0.29							11080	2210	8640	4.59
20	0.6	11545	9680	2045	13820	0.84	5.13	12070	2340	9500	4.74
	0.42	11430	9580	2155	13815	0.84	4.84	11850	2305	9315	4.72
	0.29	10775	9380	2245	13250	0.87	4.40	11645	2280	9135	4.69
25	0.6	10910	9435	2280	13420	0.86	4.39	13025	2370	10425	5.06
	0.42	10810	9395	2360	13400	0.87	4.21	12580	2315	10035	4.99
	0.29	10400	9240	2440	13070	0.89	3.93	12400	2305	9865	4.94
27	0.6	10735	9375	2330	13295	0.87	4.23	13165	2385	10550	5.08
	0.42	10430	9250	2425	13085	0.89	3.97	12900	2340	10330	5.07
	0.29	10155	9140	2525	12910	0.90	3.72	12750	2320	10200	5.05
31	0.6	10095	9210	2545	12870	0.91	3.67	13570	2440	10900	5.13
	0.42	9930	9060	2610	12770	0.91	3.53	13210	2375	10605	5.12
	0.29	9320	8830	2825	12375	0.95	3.08	13060	2355	10475	5.10
35	0.6	9645	8945	2670	12545	0.93	3.35				
	0.42	9495	8890	2785	12510	0.94	3.18				
	0.29	8825	8560	2965	12020	0.97	2.78				
38	0.6	8995	8635	2870	12095	0.96	2.93				
	0.42	8675	8500	2995	11900	0.98	2.71				
	0.29	8090	8090	3095	11415	1.00	2.45				
40	0.6	8560	8560	3030	11820	1.00	2.65				
	0.42	8445	8445	3105	11780	1.00	2.55				
	0.29	7775	7775	3200	11205	1.00	2.28				
43	0.6	7930	7930	3190	11350	1.00	2.34				
	0.42	7485	7485	3245	10960	1.00	2.17				
	0.29	7330	7330	3280	10840	1.00	2.10				
46	0.6	7490	7490	3255	10975	1.00	2.16				
	0.42	6735	6735	3300	10265	1.00	1.92				
	0.29	6390	6390	3370	9990	1.00	1.79				
48	0.6	7055	7055	3290	10575	1.00	2.02				
	0.42	6565	6565	3350	10145	1.00	1.85				
	0.29	6330	6330	3415	9975	1.00	1.75				

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

27-janv-03 DT 0231

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	0.980	0.919	0.956		
to	50	1.000	0.919	0.956	0.968	1.000	1.033	1.000	1.000
38	60	1.076	0.869	0.900	0.932	0.963	0.993	1.033	1.064
39	40	1.000	0.862	0.908	0.953	1.000	1.045	1.000	1.000
to	50	1.000	0.862	0.908	0.953	1.000	1.045	1.000	1.000
48	60	1.073	0.862	0.884	0.923	0.961	0.974	1.031	1.060

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.033	1.000	0.967	0.934

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.29	0.42	0.6
ΔD [kPa]	15.19	30.67	62.23

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	2425	2400	2350	2300	2150	2100	1800	2250		
Medium	3050	2950	2800	2650	2500	2300	2100		2500	
High	3050	2950	2800	2650	2500	2300	2100			2500

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %	80	90	100	110	120		Low	Medium	High
Heating	0.880	0.945	1.000	1.047	1.085		0.919	1.000	1.000
Total Cooling	0.865	0.935	1.000	1.060	1.091		0.886	1.000	1.000
Sensible Cooling	0.750	0.868	1.000	1.081	1.113		0.818	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	1.50	2.10	2.10	13	100	310	435	435	5600	25

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water flow

** With clean filter