



HRO 400-7C 03.35 RT

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	0.056	4000	3440	705	4785	0.86	4.68				
15	0.056	3685	3320	710	4475	0.90	4.28				
16	0.21							3820	620	3120	4.96
	0.153							3640	600	2960	4.85
	0.1							3390	565	2745	4.74
18	0.21							3990	630	3280	5.12
	0.153							3755	605	3070	4.97
	0.1							3520	580	2860	4.82
20	0.21	4375	3590	650	5105	0.82	5.47	4085	635	3370	5.20
	0.153	4320	3570	660	5060	0.83	5.33	3880	615	3185	5.07
	0.1	3930	3415	690	4700	0.87	4.68	3665	590	2995	4.95
25	0.21	4135	3495	715	4930	0.85	4.78	4440	640	3720	5.62
	0.153	4000	3440	735	4815	0.86	4.52	4245	630	3535	5.44
	0.1	3730	3340	760	4570	0.90	4.10	4030	620	3330	5.23
27	0.21	3960	3430	730	4770	0.87	4.50	4525	645	3800	5.69
	0.153	3815	3370	760	4655	0.88	4.19	4335	640	3615	5.49
	0.1	3560	3275	800	4440	0.92	3.75	4165	630	3455	5.34
31	0.21	3630	3300	775	4485	0.91	3.92	4590	655	3855	5.70
	0.153	3470	3240	815	4365	0.93	3.60	4400	650	3670	5.50
	0.1	3245	3050	845	4170	0.94	3.26	4275	645	3550	5.38
35	0.21	3320	3070	860	4260	0.92	3.29				
	0.153	3140	2950	870	4090	0.94	3.08				
	0.1	2925	2780	915	3920	0.95	2.75				
38	0.21	3075	2860	900	4055	0.93	2.93				
	0.153	2855	2710	920	3855	0.95	2.67				
	0.1	2690	2580	955	3725	0.96	2.43				
40	0.21	2870	2695	940	3890	0.94	2.63				
	0.153	2665	2560	955	3700	0.96	2.41				
	0.1	2520	2445	985	3585	0.97	2.22				
43	0.21	2605	2475	990	3675	0.95	2.29				
	0.153	2445	2370	1015	3540	0.97	2.10				
	0.1	2275	2230	1055	3410	0.98	1.89				
46	0.21	2430	2355	1045	3555	0.97	2.03				
	0.153	2180	2135	1065	3325	0.98	1.79				
	0.1	2040	2020	1100	3220	0.99	1.63				
48	0.21	2215	2170	1080	3375	0.98	1.80				
	0.153	1975	1975	1110	3165	1.00	1.57				
	0.1	1865	1865	1130	3075	1.00	1.46				

All performances quoted at nominal air flow [Medium]

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COOLING CORRECTION FACTORS

DT 0246 GB

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 to 35	40	0.965	0.922	0.961	0.997	1.036	1.072	0.986	0.969
	50	1.000	0.922	0.961	0.967	1.000	1.033	1.000	1.000
	60	1.080	0.872	0.901	0.931	0.961	0.994	1.026	1.069
36 to 48	40	1.000	0.852	0.902	0.949	1.000	1.047	1.000	1.000
	50	1.000	0.852	0.902	0.949	1.000	1.047	1.000	1.000
	60	1.026		0.902	0.945	0.969	1.012	1.031	1.027

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.035	1.000	0.965	0.932

Water Pressure Drop [Nominal in Bold]

Flow Rate (l/s)	0.1	0.15	0.211
Δ P [kPa]	1.57	3.43	6.37

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	93.1	122.5
Low	840	820	800	760	720	680	640	750		
Medium	1080	1050	1020	980	940	890	840		900	
High	1350	1300	1250	1200	1150	1100	1050			1000

Nominal Flow in Bold

AIR FLOW CORRECTION FACTORS

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.882	0.946	1.000	1.045	1.082	1.113	0.915	1.000	1.049
Total Cooling	0.865	0.937	1.000	1.057	1.097	1.120	0.891	1.000	1.063
Sensible Cooling	0.747	0.867	1.000	1.073	1.114	1.138	0.784	1.000	1.080

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		
230	1	0.90	1.10	1.35	4	24	185	230	290	2050	10

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water Flow

** With Clean Filter