



HRO 400-7C 03.43 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	0.069	4670	4070	795	5560	0.87	4.67				
15	0.069	4610	4040	805	5510	0.88	4.56				
16	0.25							4775	755	3925	4.97
	0.183							4555	745	3715	4.79
	0.125							4325	720	3510	4.68
18	0.25							4965	765	4105	5.12
	0.183							4710	755	3860	4.91
	0.125							4490	735	3660	4.78
20	0.25	4725	4090	755	5575	0.87	4.92	5165	770	4300	5.30
	0.183	4615	4040	765	5475	0.88	4.76	4865	760	4010	5.04
	0.125	4530	4010	795	5420	0.89	4.53	4625	745	3785	4.87
25	0.25	4625	4050	825	5545	0.88	4.49	5665	790	4780	5.69
	0.183	4485	3995	835	5415	0.89	4.31	5245	780	4370	5.32
	0.125	4360	3950	870	5325	0.91	4.06	5015	765	4155	5.17
27	0.25	4550	4020	865	5510	0.88	4.25	5860	795	4970	5.86
	0.183	4420	3970	880	5395	0.90	4.07	5375	785	4495	5.43
	0.125	4240	3900	910	5245	0.92	3.80	5175	775	4305	5.28
31	0.25	4380	3950	935	5410	0.90	3.84	6185	805	5285	6.12
	0.183	4215	3890	955	5265	0.92	3.63	5695	800	4800	5.67
	0.125	3975	3695	995	5065	0.93	3.31	5470	790	4585	5.50
35	0.25	4050	3830	1010	5155	0.95	3.33				
	0.183	3925	3730	1025	5045	0.95	3.19				
	0.125	3655	3510	1060	4810	0.96	2.89				
38	0.25	3860	3665	1065	5020	0.95	3.04				
	0.183	3700	3550	1095	4890	0.96	2.85				
	0.125	3370	3270	1115	4580	0.97	2.55				
40	0.25	3680	3530	1105	4880	0.96	2.81				
	0.183	3535	3430	1140	4770	0.97	2.63				
	0.125	3220	3155	1160	4475	0.98	2.36				
43	0.25	3440	3335	1165	4700	0.97	2.51				
	0.183	3325	3260	1195	4615	0.98	2.38				
	0.125	2960	2960	1235	4290	1.00	2.06				
46	0.25	3205	3140	1240	4540	0.98	2.22				
	0.183	3085	3085	1260	4440	1.00	2.11				
	0.125	2735	2735	1285	4115	1.00	1.84				
48	0.25	3075	3075	1265	4435	1.00	2.09				
	0.183	2945	2945	1300	4340	1.00	1.96				
	0.125	2545	2545	1330	3970	1.00	1.66				

All performances based on nominal airflow [High]

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COOLING CORRECTION FACTORS

DT 0247UK

EWT °C	EAT %RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT					COMP	THR EAT : 25°C
			22°C	23°C	24°C	25°C	26°C		
			20	40	0.983	0.920	0.959		
to	50	1.000	0.920	0.959	0.995	1.000	1.031	1.000	1.000
38	60	1.036	0.863	0.894	0.925	0.953	0.984	1.006	1.030
39	40	1.000	0.868	0.913	0.955	1.000	1.045	1.000	1.000
to	50	1.000	0.868	0.913	0.955	1.000	1.045	1.000	1.000
48	60	1.030	0.868	0.880	0.916	0.952	0.988	1.019	1.026

HEATING CORRECTION FACTORS

EAT (°C)	18	19	20	21
HEATING	1.032	1.000	0.968	0.935

Water Pressure Drop [Nominal in Bold]

Flow Rate (l/s)	0.125	0.183	0.25
Δ P [kPa]	2.35	4.90	8.70

AIR FLOWt (m³/h) AGAINST EXTERNAL RESISTANCE **

Speed	External Static [Pa]							Nominal		
	0	19.6	39.2	58.8	78.4	98	117.6	39.2	78.4	93.1
Low	850	825	800	775	750	700		800		
Medium	1075	1050	1025	1000	950	900	850		950	
High	1300	1275	1250	1200	1150	1050	950			1100

Nominal Flow in Bold

AIR FLOW CORRECTION FACTORS

Air Flow %	80	90	100	110	118		Low	Medium	High
Heating	0.887	0.948	1.000	1.042	0.078		0.872	0.931	1.000
Total Cooling	0.879	0.943	1.000	1.052	1.085		0.870	0.933	1.000
Sensible Cooling	0.806	0.918	1.000	1.066	1.107		0.765	0.901	1.000

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr (W)			Max Abs Pwr (W)	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
230	1	0.95	high	1.40	4.5	28	195	245	300	2300	12

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
3 Core x 2,5 mm²	Fused Switched Spur

* Based on Nominal Water Flow

** With clean filter