



HRO 750-7C 03.240 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	0.36	22900	19230	4750	28250	0.84	4.32				
15	0.36	22540	19090	4930	33470	0.85	4.11				
16	1.28							25810	6480	18730	3.67
	1.06							25290	6350	18340	3.67
	0.72							24520	6220	17700	3.62
18	1.28							27120	6620	19900	3.78
	1.06							26510	6470	19440	3.78
	0.72							25580	6280	18700	3.75
20	1.28	24240	19750	4720	29560	0.81	4.60	28300	6720	20980	3.89
	1.06	23930	19630	4740	29270	0.82	4.52	27320	6490	20230	3.88
	0.72	22550	19090	4840	27990	0.85	4.18	26730	6350	19780	3.87
25	1.28	23450	19440	5140	29190	0.83	4.12	29580	6850	22130	4.00
	1.06	23110	19320	5250	28960	0.84	3.98	28620	6640	21380	3.98
	0.72	21790	18800	5390	27780	0.86	3.67	27900	6480	20820	3.97
27	1.28	22980	19260	5340	28920	0.84	3.90	29850	6900	22350	4.01
	1.06	22730	19160	5450	28780	0.84	3.79	28950	6680	21670	4.00
	0.72	21310	18610	5630	27540	0.87	3.45	28370	6550	21220	4.00
31	1.28	22130	18940	5760	28490	0.86	3.51	30660	6990	23070	4.07
	1.06	21920	18850	5870	28390	0.86	3.41	29680	6750	22330	4.07
	0.72	20610	18360	6050	27260	0.89	3.12	29010	6610	21800	4.05
35	1.28	20950	18480	6300	27850	0.88	3.06				
	1.06	20640	18370	6490	27730	0.89	2.93				
	0.72	19660	17990	6730	26990	0.92	2.70				
38	1.28	20240	18210	6800	27640	0.90	2.75				
	1.06	19590	17970	6920	27110	0.92	2.62				
	0.72	18960	17730	7100	26660	0.94	2.48				
40	1.28	19590	17970	7080	27270	0.92	2.57				
	1.06	19130	17800	7200	26930	0.93	2.47				
	0.72	18350	17430	7410	26360	0.95	2.31				
43	1.28	18720	17640	7470	26790	0.94	2.33				
	1.06	18360	17510	7660	26620	0.95	2.24				
	0.72	17760	17050	7790	26150	0.96	2.13				
46	1.28	17670	16960	8090	26360	0.96	2.05				
	1.06	17470	16910	8160	26230	0.97	2.01				
	0.72	16300	16300	8370	25270	1.00	1.83				
48	1.28	16860	16860	8530	25990	1.00	1.86				
	1.06	16540	16540	8730	25870	1.00	1.78				
	0.72	15380	15380	8870	24850	1.00	1.63				
50	1.28										
	0.72										

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

01-avr-03 DT 0237

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 38	40	0.952	0.930	0.966	0.998	1.038	1.074	0.981	0.959
	50	1.000	0.930	0.938	0.969	1.000	1.030	1.000	1.000
	60	1.058	0.873	0.903	0.932	0.961	0.990	1.023	1.050
39 to 48	40	0.975	0.909	0.949	0.987	1.000	1.038	0.980	0.977
	50	1.000	0.909	0.949	0.987	1.000	1.033	1.000	1.000
	60	1.049	0.863	0.896	0.928	0.960	0.992	1.037	1.044

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.028	1.000	0.972	0.944

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.72	1.06	1.28
ΔP [kPa]	19.11	39.40	57.80

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

Speed	External Static [Pa]							Nominal		
	0	39.2	78.4	117.6	156.8	196		98	127.4	127.4
Low	4750	4700	4600	4400	4200			4500		
Medium	5750	5650	5400	5150	4800	4400			5000	
High	5750	5650	5400	5150	4800	4400				5000

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS

Air Flow %		90	100	105	115		Low	Medium	High
Heating		0.940	1.000	1.047	1.066		0.940	1.000	1.000
Total Cooling		0.936	1.000	1.030	1.043		0.936	1.000	1.000
Sensible Cooling		0.876	1.000	1.053	1.067		0.876	1.000	1.000

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr W			Max Absorb Pwr
		low	medium	high	F/L	Start	low	medium	high	
400	3	4.90	5.50	5.50	11.7	99	1010	1150	1150	11000

INSTALLATION REQUIREMENTS

5 Core 4.0mm	Mains Connection
5 G 4 mm ²	Fused Switched Spur

* Based on Nominal Water flow

** With clean filter