



HRO 750-7C 03.300 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	0.42	27080	22650	5860	33610	0.84	3.82				
15	0.42	26360	22370	5980	33010	0.85	3.66				
16								31440	7890	22880	3.45
								30680	7710	22300	3.43
								29680	7440	21570	3.42
18								33380	8110	24600	3.57
								32400	7880	23850	3.56
								31280	7730	22880	3.49
20	1.67	30430	23960	5700	36800	0.79	4.39	35100	8270	26160	3.69
	1.28	29830	23730	6000	36500	0.80	4.13	34050	8030	25350	3.68
	0.81	28160	23070	6160	34990	0.82	3.81	32540	7950	23920	3.54
25	1.67	29120	23450	6290	36080	0.81	3.87	37460	8600	28190	3.81
	1.28	28330	23140	6590	35590	0.82	3.62	35780	8270	26840	3.77
	0.81	26830	22550	6680	34180	0.84	3.39	34970	8230	26070	3.70
27	1.67	28270	23120	6600	35540	0.82	3.61	38330	8650	29010	3.88
	1.28	27580	22850	6700	34950	0.83	3.48	37010	8330	28010	3.87
	0.81	26280	22350	6990	33940	0.85	3.20	36010	8260	27080	3.79
31	1.67	27330	22750	7040	35040	0.83	3.30	39880	8780	30430	3.98
	1.28	26650	22490	7360	34680	0.84	3.10	38180	8380	29130	3.97
	0.81	25240	21940	7700	33610	0.87	2.83	36510	8320	27520	3.82
35	1.67	25820	22160	7910	34400	0.86	2.82				
	1.28	25100	21890	8060	33830	0.87	2.70				
	0.81	23750	21390	8480	32900	0.90	2.45				
38	1.67	24730	21760	8400	33800	0.88	2.57				
	1.28	23890	21430	8630	33190	0.90	2.42				
	0.81	22950	21080	8910	32530	0.92	2.26				
40	1.67	24130	21520	8880	33680	0.89	2.39				
	1.28	23140	21150	9010	32820	0.91	2.26				
	0.81	22370	20860	9290	32330	0.93	2.13				
43	1.67	23320	21210	9360	33350	0.91	2.20				
	1.28	22210	20810	9620	32500	0.94	2.05				
	0.81	21520	20660	9800	31990	0.96	1.95				
46	1.67	21480	20410	10060	32210	0.95	1.90				
	1.28	20950	20320	10240	31860	0.97	1.83				
	0.81	20410	20200	10410	31490	0.99	1.75				
48	1.67	20630	20300	10430	31730	0.98	1.77				
	1.28	20230	20230	10690	31590	1.00	1.70				
	0.81	19660	19660	10890	31220	1.00	1.62				
50	1.67										
	1.28										
	0.81										

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

11-avr-03

DT 0238

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	0.941	0.945	0.979	0.996	1.049	1.080	0.950	0.944
	50	1.000	0.913	0.942	0.971	1.000	1.028	1.000	1.000
	60	1.055	0.874	0.901	0.929	0.956	0.982	1.031	1.049
39 to 48	40	0.969	0.916	0.955	0.992	1.000	1.041	0.959	0.966
	50	1.000	0.916	0.955	0.992	1.000	1.032	1.000	1.000
	60	1.048	0.862	0.893	0.923	0.953	0.983	1.035	1.043

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.026	1.000	0.974	0.948

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.81	1.28	1.67
ΔD [kPa]	15.78	39.00	65.76

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

	External Static [Pa]							Nominal	
	58.8	78.4	98	117.6	137.2	156.8	156.8	117.6	
	6400	6300	6150	6000	5750	5500	5200	6000	

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %		90	100	105					
Heating		0.941	1.000	1.013					
Total Cooling		0.940	1.000	1.028					
Sensible Cooling		0.925	1.000	1.036					

ELECTRICAL

Voltage	Phase	Fan Amps	Compressor Amps		Fan Abs Pwr [W]	Max Absorb Pwr
			F/L	Start		
400	3	9.20	12.5	123	1900	13000

INSTALLATION REQUIREMENTS

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

* Based on Nominal Water flow

** With clean filter