



HRO 250-7C 00.12 R

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								
10	0.086							1710	505	1205	3.00
	0.056							1515	505	1010	2.66
	0.039							1365	500	865	2.42
16	0.086							1860	540	1320	3.07
	0.056							1760	535	1225	2.93
	0.039							1650	525	1125	2.80
18	0.086							1885	535	1350	3.14
	0.056							1800	530	1270	3.03
	0.039							1700	525	1175	2.88
20	0.086	1625	1250	465	2090	0.77	3.49	1900	545	1355	3.11
	0.056	1570	1225	495	2065	0.78	3.17	1835	540	1295	3.03
	0.039	1445	1155	510	1955	0.8	2.83	1750	540	1210	2.89
25	0.086	1570	1225	500	2070	0.78	3.14	1955	555	1400	3.15
	0.056	1400	1150	520	1920	0.82	2.69	1875	550	1325	3.05
	0.039	1230	1080	540	1770	0.88	2.28	1780	550	1230	2.89
27	0.086	1435	1175	520	1955	0.82	2.76	1985	560	1425	3.18
	0.056	1330	1115	530	1860	0.84	2.51	1915	555	1360	3.09
	0.039	1190	1055	550	1740	0.89	2.16	1820	555	1265	2.94
31	0.086	1350	1135	535	1885	0.84	2.52	2000	570	1430	3.15
	0.056	1190	1060	560	1750	0.89	2.13	1965	565	1400	3.12
	0.039	1065	990	565	1630	0.93	1.88	1885	565	1320	2.99
35	0.086	1205	1070	565	1770	0.89	2.13				
	0.056	1055	980	585	1640	0.93	1.80				
	0.039	920	875	590	1510	0.95	1.56				
38	0.086	1050	975	635	1685	0.93	1.65				
	0.056	1000	940	620	1620	0.94	1.61				
	0.039	870	835	615	1485	0.96	1.41				
40	0.086	1015	955	620	1635	0.94	1.64				
	0.056	930	880	630	1560	0.95	1.48				
	0.039	770	755	645	1415	0.98	1.19				
43	0.086	980	930	630	1610	0.95	1.56				
	0.056	855	820	645	1500	0.96	1.33				
	0.039	720	705	660	1380	0.98	1.09				
46	0.086	905	860	655	1560	0.95	1.38				
	0.056	730	715	670	1400	0.98	1.09				
	0.039	620	615	685	1305	0.99	0.91				
48	0.086	840	805	670	1510	0.96	1.25				
	0.056	700	685	700	1400	0.98	1.00				

All performances quoted at nominal airflow [Low]

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COOLING CORRECTION FACTORS *

EWT °C	EAT % RH	TOTAL COOLING EAT: 25°C	SENSIBLE COOLING EAT			COMP W	THR EAT : 25°C
			24°C	25°C	26°C		
25 to 38	40	0.913	1.027	1.045	1.060	0.968	0.934
	45	0.962	1.000	1.034	1.045	0.986	0.971
	50	1.000	0.987	1.000	1.033	1.000	1.000
39 to 48	40	0.959	1.013	1.038	1.052	0.954	0.959
	45	0.982	0.995	1.022	1.036	0.982	0.984
	50	1.000	0.955	1.000	1.025	1.000	1.000

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.043	1.000	0.970	0.959

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.39	0.56	0.86
_P [kPa]	10.78	14.70	22.54

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

Speed	External Static [Pa]						Nominal		
	0	19.6	39.2	58.8			39.2	49	49
Low	475	420	350	275			350		
Medium	500	450	420	300				400	
High	550	500	475	350					450

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.865	0.902	0.947	1.012	1.033	1.046	1.000	1.016	1.045
Total Cooling	0.827	0.910	0.983	1.028	1.043	1.061	1.000	1.032	1.051
Sensible Cooling	0.650	0.761	0.945	1.088	1.092	1.103	1.000	1.090	1.096

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr			Max Absorb Pwr	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	0.30	0.32	0.34	2.67	16	65	70	75	900	4

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection	Master/Slave Interconnection
3 Core 1.5mm	Fused Switched Spur	Master/Slave 8core 1.0mm Thermostat. 10 core 1.0mm

* Based on nominal water flow

** with clean filter