



K7RO - 7C 00.21

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	0.033	2055	1730	650	2740	0.84	3.00				
15	0.033	1990	1700	660	2685	0.85	2.86				
16	0.122							2220	615	1570	3.42
	0.086							2185	610	1540	3.39
	0.058							2060	600	1425	3.24
18	0.122							2350	630	1685	3.53
	0.086							2275	620	1620	3.47
	0.058							2225	615	1575	3.42
20	0.122	2360	1850	625	3020	0.78	3.58	2460	640	1785	3.64
	0.086	2200	1790	650	2885	0.81	3.21	2380	625	1720	3.61
	0.058	2115	1770	660	2810	0.84	3.04	2270	620	1615	3.47
25	0.122	2195	1780	675	2905	0.81	3.09	2550	645	1870	3.75
	0.086	2040	1720	690	2765	0.84	2.81	2490	630	1825	3.74
	0.058	1990	1700	715	2740	0.85	2.65	2465	625	1805	3.73
27	0.122	2125	1755	695	2855	0.83	2.91	2630	650	1945	3.84
	0.086	1975	1700	700	2710	0.86	2.69	2560	635	1890	3.82
	0.058	1915	1670	740	2690	0.87	2.47	2530	630	1865	3.80
31	0.122	2030	1720	720	2785	0.85	2.69	2805	655	2115	4.07
	0.086	1850	1650	735	2620	0.89	2.40	2740	645	2060	4.03
	0.058	1790	1630	765	2590	0.91	2.24	2685	640	2010	3.98
35	0.122	1905	1670	745	2685	0.88	2.44				
	0.086	1680	1590	770	2485	0.95	2.09				
	0.058	1625	1560	795	2455	0.96	1.96				
38	0.122	1760	1620	760	2555	0.92	2.21				
	0.086	1575	1510	790	2400	0.96	1.91				
	0.058	1515	1470	800	2350	0.97	1.81				
40	0.122	1710	1600	780	2525	0.94	2.10				
	0.086	1540	1490	805	2380	0.97	1.83				
	0.058	1450	1420	820	2305	0.98	1.70				
43	0.122	1560	1530	800	2395	0.98	1.87				
	0.086	1400	1400	820	2255	1.00	1.64				
	0.058	1335	1335	845	2215	1.00	1.52				
46	0.122	1435	1435	820	2290	1.00	1.68				
	0.086	1275	1275	840	2150	1.00	1.46				
48											
50											

All performances quoted at nominal airflow [Medium]

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COOLING CORRECTION FACTORS *

10-june-03 **DT 0240**

EWT °C	EAT % RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT					COMP EAT : 25°C	THR EAT : 25°C
			22°C	23°C	24°C	25°C	26°C		
20	40	0.964	0.905	0.947	0.982	1.018	1.053	0.992	0.972
to	50	1.000	0.905	0.929	0.964	1.000	1.029	1.000	1.000
35	60	1.054	0.876	0.911	0.941	0.976	1.006	1.016	1.043
36	40	1.000	0.872	0.913	0.960	1.000	1.040	1.000	1.000
to	50	1.000	0.872	0.913	0.960	1.000	1.040	1.000	1.000
46	60	1.051	0.852	0.893	0.933	0.966	1.007	1.024	1.040

HEATING CORRECTION FACTORS

EAT (°C)	18	19	20	21
HEATING	1.033	1.000	0.971	0.943

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.058	0.086	0.122
ΔD [kPa]	16.66	23.52	41.16

AIR FLOW [m3/h]

Speed	Low	Medium	High
AIR FLOW [m3/h]	400	450	500

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS

Speed	Low	Medium	High
Heating	0.970	1.000	1.037
Total Cooling	0.972	1.000	1.023
Sensible Cooling	0.933	1.000	1.067

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		
220/240	1	0.15	0.17	0.19	3.7	19	30	35	40	1000	6

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
3 Core 1.5 mm	Fused Switched Spur

* Based on Nominal Water Flow

** With clean filter