



ARO 1250-7C.00.21 R

COOLING AND HEATING PERFORMANCES

EWT (°C)	water Flow (l/h)	COOLING Entering air : 25°C : 50 % RH						HEATING Entering air : 19°C			
		(W)		COMP (W)	THR (W)	Sensible / total	EF	TOT (W)	COMP (W)	THA (W)	COP
		total	sensible								
13	120	2315	1860	670	3025	0.80	3.26				
15	120	2150	1800	695	2885	0.84	2.93				
16	500							2010	675	1295	2.81
	350							1840	655	1145	2.65
	240							1755	635	1080	2.60
18	500							2095	680	1375	2.91
	350							1880	660	1180	2.69
	240							1830	650	1140	2.65
20	500	2775	2050	650	3465	0.74	4.02	2190	685	1465	3.02
	350	2530	1950	660	3230	0.77	3.61	2045	675	1330	2.86
	240	2405	1900	670	3115	0.79	3.39	1930	660	1230	2.76
25	500	2450	1920	705	3195	0.78	3.29	2430	695	1695	3.31
	350	2350	1870	710	3100	0.80	3.13	2225	685	1500	3.07
	240	2225	1820	715	2980	0.82	2.95	2125	680	1405	2.95
27	500	2360	1880	720	3120	0.80	3.11	2515	700	1775	3.40
	350	2270	1840	730	3040	0.81	2.95	2315	695	1580	3.15
	240	2130	1790	740	2910	0.84	2.73	2230	690	1500	3.05
31	500	2200	1820	745	2985	0.83	2.80	2680	710	1930	3.57
	350	2085	1770	760	2885	0.85	2.61	2455	705	1710	3.30
	240	2000	1740	775	2815	0.87	2.45	2410	700	1670	3.26
35	500	2060	1760	770	2870	0.85	2.54				
	350	1970	1730	790	2800	0.88	2.37				
	240	1860	1680	815	2715	0.90	2.18				
38	500	1915	1700	800	2755	0.89	2.28				
	350	1870	1690	820	2730	0.90	2.17				
	240	1745	1640	840	2625	0.94	1.98				
40	500	1785	1650	815	2640	0.92	2.09				
	350	1745	1640	830	2615	0.94	2.01				
	240	1690	1605	850	2580	0.95	1.90				
43	500	1630	1520	840	2510	0.93	1.85				
	350	1575	1500	865	2480	0.95	1.74				
	240	1515	1470	875	2430	0.97	1.66				
46	500	1365	1310	875	2280	0.96	1.49				
	350	1295	1255	885	2220	0.97	1.40				
	240										
48	500										
	350										
	240										
50	500										
	350										
	240										

All performances quoted at nominal air flow [Low]

COOLING CORRECTION FACTORS

19 août 2003

DT 0242

EWT °C	Entering air % RH	Total Cooling Air - : 25°C	Sensible Cooling EAT					COMP Air - : 25°C	THR Air - : 25°C
			22°C	23°C	24°C	25°C	26°C		
20	40	0.933	0.921	0.955	0.994	1.028	1.062	0.987	0.947
to	50	1.000	0.915	0.932	0.966	1.000	1.034	1.000	1.000
35	60	1.052	0.881	0.910	0.943	0.977	1.006	1.007	1.040
36	40	0.994	0.902	0.939	0.982	1.018	1.061	0.988	0.992
to	50	1.000	0.902	0.939	0.982	1.000	1.037	1.000	1.000
46	60	1.062	0.872	0.902	0.939	0.976	1.006	1.019	1.046

HEATING CORRECTION FACTORS *

Entering air (°C)	18	19	20	21
Total Heating	1.036	1.000	0.964	0.933

Water Pressure Drop [Nominal in Bold]

Floe Rate (l/h)	240	350	500
Δ P [kPa]	21.56	31.4	52.92

AIR FLOW **

Speed	Low	Medium	High
Air Flow in m ³ /h	450	500	550

Nominal Flow in Bold

AIR FLOW CORRECTION FACTORS

Speed	Low	Medium	High
Heating	1.000	1.056	1.098
Total Cooling	1.000	1.039	1.084
Sensible Cooling	1.000	1.067	1.139

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Power (W)			maxi Abs Pwr (W)	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
230	1	0.20	0.24	0.28	3.7	22	40	50	60	1200	6

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
3 Core 1,5 mm ²	Fused switched spur

* Based on Nominal water flow

** With clean filter