



ARO 1000-7C.00.12 R

COOLING AND HEATING PERFORMANCES

EWT (°C)	Water Flow (l/h)	COOLING Entering air : 25°C 50 % RH						HEATING Entering air : 19°C			
		Cooling (W)		COMP (W)	THR (W)	Sensible / total	EF	TOT (W)	COMP (W)	THA (W)	COP
		total	sensible								
13	75	1125	900	510	1670	0.80	2.06				
15	75	1095	890	520	1650	0.81	1.97				
16	310							1515	535	945	2.66
	190							1445	515	895	2.63
	140							1395	500	860	2.61
18	310							1640	545	1060	2.83
	190							1560	520	1005	2.81
	140							1515	510	970	2.78
20	310	1475	1040	470	1980	0.71	2.92	1775	555	1185	3.01
	190	1420	1020	475	1930	0.72	2.78	1680	530	1115	2.97
	140	1360	1000	490	1885	0.74	2.59	1630	520	1075	2.94
25	310	1440	1030	500	1975	0.72	2.69	2055	565	1455	3.43
	190	1350	990	505	1890	0.73	2.50	1975	545	1395	3.41
	140	1295	970	515	1845	0.75	2.35	1940	540	1365	3.37
27	310	1385	1010	505	1925	0.73	2.56	2180	570	1575	3.60
	190	1300	975	520	1855	0.75	2.34	2110	555	1520	3.58
	140	1235	950	530	1800	0.77	2.19	2065	545	1485	3.56
31	310	1280	960	530	1845	0.75	2.27	2355	575	1745	3.86
	190	1140	910	540	1715	0.80	1.98	2285	560	1690	3.84
	140	1085	890	555	1675	0.82	1.84	2165	555	1575	3.67
35	310	1085	890	550	1670	0.82	1.85				
	190	945	835	565	1545	0.88	1.58				
	140	845	770	580	1460	0.91	1.37				
38	310	940	800	575	1550	0.85	1.54				
	190	785	705	580	1400	0.90	1.28				
	140	690	635	605	1330	0.92	1.08				
40	310	795	690	585	1415	0.87	1.28				
	190	685	630	595	1315	0.92	1.09				
	140	610	580	620	1265	0.95	0.93				
43	310	595	535	600	1230	0.90	0.94				
	190	530	500	610	1175	0.94	0.82				
	140	445	435	640	1120	0.98	0.66				
46	310	400	370	625	1060	0.93	0.61				
	190	370	360	630	1035	0.97	0.56				
	140										
48	310										
	190										
	140										
50	310										
	190										
	140										

All performances quoted at nominal air flow [Low]

COOLING CORRECTION FACTORS

26 août 2003

DT 0245

EWT °C	Entering air %RH	Total Cooling Air - : 25°C	Sensible EAT					COMP Air - : 25°C	THR Air - : 25°C
			22°C	23°C	24°C	25°C	26°C		
20	40	0.876	0.946	0.978	1.011	1.043	1.075	0.970	0.907
to	50	1.000	0.914	0.935	0.968	1.000	1.021	1.000	1.000
35	60	1.102	0.882	0.903	0.935	0.957	0.989	1.022	1.075
36	40	1.000	0.864	0.909	0.954	1.000	1.045	1.000	1.000
to	50	1.000	0.864	0.909	0.954	1.000	1.045	1.000	1.000
46	60	1.076	0.856	0.894	0.939	0.970	1.015	1.017	1.045

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
Total Heating	1.021	1.000	0.978	0.957

Water Pressure Drop [Nominal in Bold]

Flow Rate (l/h)	140	190	310
Δ P [kPa]	10.78	14.7	22.54

AIR FLOW **

Speed	Low	Medium	High
Air Flow in m ³ /h	250	300	350

Nominal flow rate in Bold

AIR FLOW CORRECTION FACTORS

Speed	Low	Medium	High
Heating	1.000	1.010	1.030
Total Cooling	1.000	1.027	1.035
Sensible Cooling	1.000	1.042	1.125

Electrical

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Power (W)			Max Abs Pwr(W)	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
230	1	0.17	0.19	0.21	2.6	15	35	40	45	900	4

INSTALLATION REQUIREMENTS

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

* Based on nominal Water flow

** With clean filter