



ARO 1000-7C.00.15 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	90	1570	1250	440	2060	0.80	3.20				
15	90	1465	1210	525	2040	0.83	2.55				
10	360							1490	390	1050	3.39
	240							1410	390	970	3.20
	160							1300	385	865	2.99
16	360							1670	400	1220	3.71
	240							1575	395	1130	3.54
	160							1540	390	1100	3.50
18	360							1795	405	1340	3.95
	240							1670	400	1220	3.71
	160							1595	395	1150	3.58
20	360	1940	1400	435	2425	0.72	4.00	1865	410	1405	4.05
	240	1795	1345	450	2295	0.75	3.59	1780	410	1320	3.87
	160	1720	1310	480	2250	0.76	3.25	1665	400	1215	3.70
25	360	1790	1340	470	2310	0.75	3.44	2135	420	1665	4.54
	240	1655	1280	480	2185	0.77	3.12	2070	415	1605	4.45
	160	1540	1240	510	2100	0.81	2.75	1875	405	1420	4.12
27	360	1670	1290	485	2205	0.77	3.12	2185	425	1710	4.60
	240	1565	1250	495	2110	0.80	2.87	2140	420	1670	4.55
	160	1405	1185	525	1980	0.84	2.44	1990	410	1530	4.33
31	360	1575	1255	510	2135	0.80	2.81	2240	430	1760	4.67
	240	1485	1220	520	2055	0.82	2.61	2180	425	1705	4.59
	160	1270	1130	545	1865	0.89	2.13	2065	415	1600	4.44
35	360	1440	1200	530	2020	0.83	2.48				
	240	1235	1120	565	1850	0.91	2.01				
	160	1140	1090	575	1765	0.96	1.82				
38	360	1310	1150	550	1910	0.88	2.18				
	240	1175	1090	580	1805	0.93	1.87				
	160	1030	970	590	1670	0.94	1.61				
40	360	1190	1070	565	1805	0.90	1.93				
	240	1055	995	590	1695	0.94	1.65				
	160	925	880	610	1585	0.95	1.40				
43	360	1090	1010	595	1735	0.93	1.69				
	240	990	945	615	1655	0.95	1.49				
	160	815	800	625	1490	0.98	1.21				
46	360	965	910	615	1630	0.94	1.45				
	240	900	865	635	1585	0.96	1.31				
	160	755	755	655	1460	1.00	1.07				
48	360	920	880	640	1610	0.96	1.33				
	240										
	160										

All performances quoted at nominal air flow [Low]

COOLING CORRECTION FACTORS

19 août 2003

DT 0243

EWT °C	Entering air % RH	Total Cooling Air - : 25°C	Sensible Entering air					COMP Air - : 25°C	THR Air - : 25°C
			22°C	23°C	24°C	25°C	26°C		
20	40	0.930	0.926	0.959	0.992	1.033	1.065	0.990	0.947
to	50	1.000	0.902	0.934	0.967	1.000	1.033	1.000	1.000
35	60	1.060	0.877	0.910	0.943	0.975	1.000	1.010	1.046
36	40	1.000	0.876	0.924	0.962	1.000	1.038	1.000	1.000
to	50	1.000	0.876	0.924	0.962	1.000	1.038	1.000	1.000
46	60	1.057	0.857	0.886	0.924	0.962	1.000	1.017	1.041

HEATING CORRECTION FACTORS *

Entering air (°C)	18	19	20	21
Total Heating	1.029	1.000	0.976	0.952

Water Pressure Drop [Nominal in Bold]

Flow Rate (l/h)	160	240	360
Δ P [kPa]	13.72	21.6	33.32

AIR FLOW **

Speed	Low	Medium	High
Air Flow in m³/h	300	350	400

Nominal flow rate in Bold

AIR FLOW CORRECTION FACTORS

Speed	Low	Medium	High
Heating	1.000	1.005	1.017
Total Cooling	1.000	1.014	1.031
Sensible Cooling	1.000	1.035	1.105

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	0.24	0.26	0.28	2.5	15	50	55	60	900	4

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
3 Core 1,5 mm²	Fused switched spur

* Based on Nominal water flow

** With clean filter