



ARO 1250-7C.00.19 R

COOLING AND HEATING PERFORMANCES

EWT (°C)	Water Flow (l/h)	COOLING Entering air : 25°C : 50 % RH						HEATING Entering air : 19°C			
		Puissance froid (W)		COMP (W)	THR (W)	Sensible / total	EF	TOT (W)	COMP (W)	THA (W)	COP
		total	sensible								
13	110	2230	1730	610	2875	0.78	3.46				
15	110	1940	1620	615	2590	0.84	2.98				
16	450							1995	625	1335	3.02
	280							1865	595	1235	2.96
	190							1775	580	1160	2.89
18	450							2150	635	1480	3.21
	280							1990	615	1340	3.06
	190							1890	590	1265	3.02
20	450	2405	1800	575	3015	0.75	3.94	2245	645	1565	3.30
	280	2330	1770	580	2945	0.76	3.79	2135	630	1470	3.21
	190	2260	1740	590	2885	0.77	3.62	2015	610	1370	3.12
25	450	2185	1710	600	2820	0.78	3.44	2580	670	1875	3.66
	280	2090	1680	615	2740	0.80	3.22	2460	655	1770	3.57
	190	2040	1650	625	2700	0.81	3.09	2320	640	1645	3.44
27	450	2080	1670	615	2730	0.80	3.20	2700	680	1985	3.78
	280	1995	1640	630	2660	0.82	3.00	2600	660	1905	3.74
	190	1930	1610	640	2605	0.83	2.86	2420	650	1735	3.53
31	450	1860	1580	645	2540	0.85	2.74	2780	695	2050	3.81
	280	1810	1570	655	2500	0.87	2.62	2710	680	1995	3.79
	190	1730	1530	665	2430	0.88	2.47	2620	660	1925	3.77
35	450	1695	1520	680	2410	0.90	2.37				
	280	1635	1490	690	2360	0.91	2.26				
	190	1535	1415	700	2270	0.92	2.09				
38	450	1540	1420	705	2280	0.92	2.08				
	280	1475	1370	715	2225	0.93	1.97				
	190	1405	1335	730	2170	0.95	1.84				
40	450	1445	1345	725	2205	0.93	1.90				
	280	1380	1300	735	2150	0.94	1.79				
	190	1315	1260	745	2095	0.96	1.69				
43	450	1285	1220	750	2070	0.95	1.64				
	280	1255	1210	755	2045	0.96	1.59				
	190	1175	1150	765	1975	0.98	1.47				
46	450	1145	1100	770	1950	0.96	1.42				
	280	1040	1020	775	1850	0.98	1.28				
	190										
48	450										
	280										
	190										
50	450										
	280										
	190										

All performances quoted at nominal air flow [Low]

COOLING CORRECTION FACTORS

21 août 2003 **DT 0244**

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	0.934	0.920	0.957	0.994	1.024	1.061	0.992	0.942
to	50	1.000	0.902	0.932	0.969	1.000	1.031	1.000	1.000
35	60	1.088	0.883	0.914	0.945	0.981	1.012	1.053	1.078
36	40	1.000	0.867	0.911	0.955	1.000	1.044	1.000	1.000
to	50	1.000	0.867	0.911	0.955	1.000	1.044	1.000	1.000
46	60	1.104	0.852	0.889	0.926	0.970	1.007	1.069	1.089

HEATING CORRECTION FACTORS *

Entering air (°C)	18	19	20	21
Total Heating	1.031	1.000	0.969	0.939

Water Pressure Drop [Nominal in Bold]

Flow Rate (l/h)	190	280	450
Δ P [kPa]	16.66	23.5	40.18

AIR FLOW**

Speed	Low	Medium	High
Air Flow in m ³ /h	400	450	500

Nominal flow rate in Bold

AIR FLOW CORRECTION FACTORS

Speed	Low	Medium	High
Heating	1.000	1.045	1.061
Total Cooling	1.000	1.027	1.060
Sensible Cooling	1.000	1.060	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	0.18	0.20	0.24	3.2	19	35	40	50	1000	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