



HRO 660-7C 03.165 Scr

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	0.25	16200	13430	3290	20010	0.83	4.64				
15	0.25	15940	13330	3360	19820	0.84	4.48				
16								17310	3650	13140	4.50
								16910	3610	12780	4.44
								16130	3500	12110	4.36
18								17670	3680	13470	4.55
								17220	3630	13070	4.50
								16510	3550	12440	4.40
20	0.89	17300	13860	3120	20940	0.80	5.21	18150	3710	13920	4.64
	0.64	16960	13730	3220	20700	0.81	4.96	17670	3650	13500	4.59
	0.47	16480	13540	3350	20350	0.82	4.64	16900	3600	12780	4.45
25	0.89	16670	13610	3460	20650	0.82	4.55	18980	3810	14650	4.73
	0.64	16330	13480	3570	20420	0.83	4.33	18460	3720	14220	4.71
	0.47	15890	13310	3700	20110	0.84	4.07	17320	3650	13150	4.50
27	0.89	16390	13510	3620	20530	0.82	4.29	19400	3840	15040	4.80
	0.64	16040	13370	3710	20270	0.83	4.10	18900	3760	14620	4.77
	0.47	15620	13200	3850	19990	0.85	3.86	17920	3700	13700	4.59
31	0.89	15790	13270	3940	20250	0.84	3.81	19870	3870	15480	4.88
	0.64	15480	13150	4010	20010	0.85	3.68	19470	3820	15130	4.84
	0.47	15110	13010	4140	19770	0.86	3.48	18390	3770	14100	4.63
35	0.89	15130	13020	4280	19930	0.86	3.38				
	0.64	14820	12900	4360	19700	0.87	3.25				
	0.47	14490	12770	4490	19500	0.88	3.09				
38	0.89	14580	12800	4570	19670	0.88	3.06				
	0.64	14300	12700	4660	19480	0.89	2.94				
	0.47	13980	12580	4780	19280	0.90	2.81				
40	0.89	14090	12620	4880	19490	0.90	2.77				
	0.64	13810	12510	4940	19270	0.91	2.69				
	0.47	13610	12440	4990	19120	0.91	2.62				
43	0.89	13310	12330	5140	18970	0.93	2.49				
	0.64	13070	12240	5220	18810	0.94	2.41				
	0.47	12840	12150	5350	18710	0.95	2.31				
46	0.89	12710	12070	5520	18750	0.95	2.22				
	0.64	12500	12010	5600	18620	0.96	2.16				
	0.47	11740	11740	5740	18000	1.00	1.98				
48	0.89	12280	12280	5800	18600	1.00	2.05				
	0.64	12000	12000	5890	18410	1.00	1.97				
	0.47										
50	0.89										
	0.64										
	0.47										

All performances quoted at nominal airflow [Medium]

Sales [France]

8bis rue Escudier, 92100 BOULOGNE BILLANCOURT

Paris

Tel : 0033 155 380 170

Fax : 0033 155 380 180

Web Site : www.france-energie.fr

Sales [UK]

Carlyle Environmental Ltd

15 Little Orchard, Carlton Rd, Headley Down, Hants GU35 8JW

Tel : 01428 714784

Fax : 01428 714784

COOLING CORRECTION FACTORS *

26-févr-03

DT 0235

EWT °C	EAT % RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT					COMP W	THR EAT : 25°C
			22°C	23°C	24°C	25°C	26°C		
			20	40	0.930	0.939	0.974		
to	50	1.000	0.911	0.941	0.970	1.000	1.029	1.000	1.000
38	60	1.047	0.873	0.902	0.930	0.957	0.985	1.029	1.042
39	40	0.957	0.917	0.954	0.993	1.000	1.056	0.980	0.965
to	50	1.000	0.917	0.954	0.993	1.000	1.032	1.000	1.000
48	60	1.057	0.863	0.894	0.925	0.955	0.985	1.056	1.055

HEATING CORRECTION FACTORS *

EAT (°C)	18	19	20	21
HEATING	1.029	1.000	0.971	0.942

Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.47	0.64	0.9
ΔD [kPa]	21.07	38.12	73.01

AIR FLOW [m3/h] AGAINST EXTERNAL RESISTANCE **

Speed	External Static [Pa]							Nominal		
	78.4	98	117.7	137.2	156.8	176.4	196	156.8	166.6	166.6
Low	4000	3900	3800	3650	3500	3300	3100	3500		
Medium				4000	3800	3600	3400		3700	
High				4000	3800	3600	3400			3700

Nominal flow in Bold

AIR FLOW CORRECTION FACTORS *

Air Flow %		90	100	110			Low	Medium	High
Heating		0.943	1.000	1.045			1.000	1.028	1.028
Total Cooling		0.939	1.000	1.039			1.000	1.027	1.027
Sensible Cooling		0.878	1.000	1.043			1.000	1.031	1.031

ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr w			Max Absorb Pwr
		low	medium	high	F/L	Start	low	medium	high	
400	3	3.50	4.20	4.20	6.7	65.5	720	860	860	9000

INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection
5 Core 2.5mm	Fused Switched Spur

* Based on Nominal Water flow

** With clean filter