



# HRO 250-7C 00.19 R

## 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	THR	Sensible / total	EF	HEATING (W)	COMP	THA	COP
		Total	Sensible	(W)	(W)			(W)	(W)	(W)	
10	0.122							2080	650	1430	2.87
	0.086							2055	655	1400	2.82
	0.058							1960	660	1300	2.67
16	0.122							2300	670	1630	3.09
	0.086							2275	675	1600	3.03
	0.058							2230	680	1550	2.95
18	0.122							2345	690	1655	3.07
	0.086							2310	690	1620	3.02
	0.058							2275	690	1585	2.97
20	0.122	2360	1815	675	3035	0.77	3.50	2420	690	1730	3.16
	0.086	2145	1715	690	2835	0.8	3.11	2395	690	1705	3.13
	0.058	2070	1700	705	2775	0.82	2.94	2350	695	1655	3.05
25	0.122	2245	1775	705	2950	0.79	3.18	2580	695	1885	3.35
	0.086	2045	1675	715	2760	0.82	2.86	2525	695	1830	3.28
	0.058	1955	1645	730	2685	0.84	2.68	2415	695	1720	3.14
27	0.122	2120	1695	710	2830	0.80	2.99	2620	695	1925	3.40
	0.086	1990	1670	715	2705	0.84	2.78	2520	695	1825	3.27
	0.058	1830	1575	735	2565	0.86	2.49	2455	700	1755	3.17
31	0.122	2080	1705	720	2800	0.82	2.89	2655	695	1960	3.45
	0.086	1950	1640	730	2680	0.84	2.67	2605	700	1905	3.36
	0.058	1800	1550	755	2555	0.86	2.38	2480	710	1770	3.16
35	0.122	1945	1635	750	2695	0.84	2.59				
	0.086	2765	1555	780	3545	0.56	3.54				
	0.058	1630	1465	785	2415	0.90	2.08				
38	0.122	1815	1560	765	2580	0.86	2.37				
	0.086	1665	1500	790	2455	0.90	2.11				
	0.058	1525	1405	800	2325	0.92	1.91				
40	0.122	1780	1565	800	2580	0.88	2.23				
	0.086	1600	1440	810	2410	0.90	1.98				
	0.058	1460	1345	825	2285	0.92	1.77				
43	0.122	1645	1480	820	2465	0.90	2.01				
	0.086	1470	1350	835	2305	0.92	1.76				
	0.058	1355	1275	840	2195	0.94	1.61				
46	0.122	1550	1410	845	2395	0.91	1.83				
	0.086	1320	1240	860	2180	0.94	1.53				
	0.058	1110	1065	875	1985	0.96	1.27				
48	0.122	1410	1310	875	2285	0.93	1.61				
	0.086	1050	1020	900	1950						

All performances quoted at nominal airflow [low]

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## COOLING CORRECTION FACTORS \*

EWT °C	EAT % RH	TOTAL COOLING EAT : 25°C	SENSIBLE COOLING EAT			COMP W	THR EAT : 25°C
			24°C	25°C	26°C		
25 to 38	40	0.933	1.017	1.036	1.053	0.972	0.947
	45	0.956	1.004	1.014	1.037	0.988	0.966
38	50	1.000	0.993	1.000	1.032	1.000	1.000
39 to 48	40	0.939	1.019	1.037	1.056	0.961	0.947
	45	0.965	1.000	1.009	1.044	0.984	0.972
48	50	1.000	0.987	1.000	1.028	1.000	1.000

## HEATING CORRECTION FACTORS \*

EAT (°C)	18	19	20	21
HEATING	1.075	1.000	0.981	0.972

## Water Pressure Drop [Nominal in Bold]

Flow Rate [l/s]	0.058	<b>0.086</b>	0.122
_P [kPa]	16.66	<b>23.52</b>	41.16

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

Speed	External Static [Pa]						Nominal		
	0	19.6	39.2	58.8			39.2	39.2	29.4
Low	500	475	450	350			<b>450</b>		
Medium	550	525	500	400				500	
High	600	575	525	425					550

Nominal flow in Bold

## AIR FLOW CORRECTION FACTOR

Air Flow %	80	90	100	110	120	130	Low	Medium	High
Heating	0.913	0.952	1.000	1.066	1.136	1.160	1.000	1.077	1.138
Total Cooling	0.920	0.986	1.000	1.023	1.049	1.071	1.000	1.033	1.052
Sensible Cooling	0.784	0.944	1.000	1.064	1.134	1.157	1.000	1.069	1.137

## ELECTRICAL

Voltage	Phase	Fan Amps			Compressor Amps		Fan Abs Pwr			Max absorb. Pwr	Fuse Rating (A)
		low	medium	high	F/L	Start	low	medium	high		
220/230 V	1	0.34	0.37	0.38	3.74	20	75	80	85	1000	6

## INSTALLATION REQUIREMENTS

Supply Cable Size	Mains Connection	Master/Slave Interconnection
3 Core 1.5mm	Fused Switched Spur	Master/Slave: 8 core 1.0mm Thermostat: 10 core 1.0mm

\* Based on Nominal Water flow

\*\* With clean filter