



Unit Tag	Qty	Model No	Net Cooling	Nominal Voltage	Refrigerant Type
TCA80TSARH	1	TCA80TSARH	79.54	460-3-60.0	R410A

Evaporator Data		Evaporator Data (Cont.)		Performance Data	
EWT (°F)	54.00	Fluid Volume (USGAL)	8.771	EER (Btu/W·h)	9.337
LWT (°F)	44.00	Min. Flow Rate (USGPM)	99.86	IPLV.IP (Btu/W·h)	18.29
				NPLV.IP (Btu/W·h)	17.78
Design Flow Rate (USGPM)	189.9	Max. Flow Rate (USGPM)	400.1		
Evap. Press. Drop (ft H2O)	6.31				
Fluid	Water				
		Condenser Data		Physical Data	
Strainer Press. Drop (ft H2O)	3.50	Ambient Temp. Design (°F)	105.0	Rigging Wt. (lb)	4738
Ext. Kit Press. Drop (ft H2O)	2.00	Altitude (ft)	0.000	Operating Wt. (lb)	4813
Total Press. Drop (ft H2O)	11.8	Compressor Type	Scroll - Hermetic	Refrigerant Charge (lb)	103.8
Fouling Factor (h.ft².F/Btu)	0.000100				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	27 / 27 / 27	27 / 27 / 27		
Fan QTY/FLA (each)	3 / 4	3 / 4		
High LRA Current	180 / 180 / 180	180 / 180 / 180		

Single Point				
Min. Circuit Ampacity	196			
Recommended Fuse/CB Rating	200			
Max. Inverse Time CB Rating	200			
Max. Dual Element Fuse Size (A)	200			
		Operating Condition Electrical Data		
Unit Short Circuit Withstand (STD)	5 [kA]		Compressor kW	92.15
Wires Per Phase	1 + 2		Total Fan kW	10.08
Wire Range (Lug Size)	250 - 500 kcmil + #3/0		Total kW	102.2
Starter Type	Across The Line			

Notes:

Performance at AHRI Conditions					
Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54.00	Ambient Temp. (°F)	95.0	EER (Btu/W·h)	10.98
LWT (°F)	44.00	Altitude (ft)	0.000	IPLV.IP (Btu/W·h)	18.29
Flow Rate (USGPM)	204.6			Net Cooling Capacity	85.71
Pressure Drop (ft H2O)	7.30				
Fluid	Water				
Fouling Factor (h.ft².F/Btu)	0.000100				
Fluid Volume (USGAL)	8.771				

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