

Project : AHMAD ASYRAF BIN AMIL
Created By : AHMAD ASYRAF BIN AMIL

Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 95.0 °F Frequency : 50 Hz
Chilled Water : EWT 54.00 °F Voltage : 380-415 V
LWT 44.01 °F Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		58.57		58.58	TR
		206.0		206.0	kW
Current	Compressor	115		115	A
	Fan	18		18	A
	Total	133		133	A
Power Input	Compressor	67.17		67.17	kW
	Fan	12.00		12.00	kW
	Total	79.17		79.17	kW
COP		2.602		2.602	kW/kW
Flow Rate		140.6		140.7	gpm
Pressure Drop		10.5		10.5	ft H ₂ O
Note	1. Nominal data is based on the AHRI (550/590) standard condition of EWT/LWT of 54.00/44.00°F, and ambient temperature of 95.0°F. 2. Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature. 3. Evaporator rating fouling factor = 0.000100 h.ft ² .°F/Btu, and rating altitude at 0 ft.				

Part Load Performance

IPLV		3.855										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		58.58	43.93	29.29	14.64	-	-	-	-	-	-	TR
Total Cooling Capacity		206.0	154.5	103.0	51.50	-	-	-	-	-	-	kW
Total Power Input		79.17	60.38	39.59	20.79	-	-	-	-	-	-	kW
Total Current		133	101	67	35	-	-	-	-	-	-	A
COP		2.602	2.559	2.602	2.477	-	-	-	-	-	-	kW/kW
Ambient Temperature		95.0	95.0	95.0	95.0	-	-	-	-	-	-	°F
EEWT		54.00	51.50	49.00	46.50	-	-	-	-	-	-	°F
ELWT		44.01	44.01	44.01	44.01	-	-	-	-	-	-	°F
Flow Rate		140.7	140.7	140.7	140.7	-	-	-	-	-	-	gpm
Pressure Drop		10.5	10.5	10.5	10.5	-	-	-	-	-	-	ft H ₂ O

Others

MCA		164	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	46.3 / 46.3	lb/System
Chiller Dimension	W / D / H	7.3 / 10.7 / 7.1	ft
Weight	Shipping	4525	lb
	Operating	4794	lb

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		4" Victaulic Joint	-
Flow Rate	Min / Max	60.32 / 269.5	gpm
Pressure Drop	Min / Max	2.34 / 30.1	ft H ₂ O

Compressor

Quantity	System 1/2	2 / 2	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	3.5 / 3.5	gallon/System

Condenser

Coil			-
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		124.00	ft ² /Coil
Fan			-
Type/ Drive		Axial / Direct	-
Quantity per System		3	-