



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM60C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 91.4 °F Frequency : 50 Hz
Chilled Water : EWT 53.60 °F Voltage : 380-415 V
LWT 42.80 °F Country of Origin : Malaysia

Generated Outputs

Full Load Performance			Nominal Data (AHRI Standard)		Input Conditions		
Cooling Capacity	:		58.57		58.94		TR
			206.0		207.3		kW
Current	:	Compressor	115		111		A
		Fan	18		18		A
		Total	133		129		A
Power Input	:	Compressor	67.17		64.32		kW
		Fan	12.00		12.00		kW
		Total	79.17		76.32		kW
COP	:		2.602		2.716		kW/kW
Flow Rate	:		140.6		131.0		gpm
Pressure Drop	:		10.5		9.33		ft H ₂ O

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.ft².°F/Btu, and rating altitude at 0 ft.

Part Load Performance

IPLV		3.754										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		58.94	44.21	29.47	14.74	-	-	-	-	-	-	TR
Total Cooling Capacity		207.3	155.5	103.6	51.82	-	-	-	-	-	-	kW
Total Power Input		76.32	58.24	38.16	20.08	-	-	-	-	-	-	kW
Total Current		129	99	65	34	-	-	-	-	-	-	A
COP		2.716	2.670	2.716	2.581	-	-	-	-	-	-	kW/kW
Ambient Temperature		91.4	91.4	91.4	91.4	-	-	-	-	-	-	°F
EEWT		53.60	50.90	48.20	45.50	-	-	-	-	-	-	°F
ELWT		42.80	42.80	42.80	42.80	-	-	-	-	-	-	°F
Flow Rate		131.0	131.0	131.0	131.0	-	-	-	-	-	-	gpm
Pressure Drop		9.33	9.33	9.33	9.33	-	-	-	-	-	-	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										-
Fin	Type	Aluminium										-
Surface Area/ Coil		124.00										ft ² /Coil
Fan												-
Type/ Drive		Axial / Direct										-
Quantity per System		3										-

Note : For any enquiry, please contact your authorized sales agent.

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