



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM40C3F / 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	:		40.00		40.00		TR
			140.7		140.7		kW
Current	:	Compressor	81		78		A
		Fan	9		9		A
		Total	90		87		A
Power Input	:	Compressor	46.08		44.25		kW
		Fan	6.000		6.000		kW
		Total	52.08		50.25		kW
COP	:		2.701		2.799		kW/kW
Flow Rate	:		96.01		88.89		gpm
Pressure Drop	:		13.7		11.6		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		3.750										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	55.6	45.1	-	-	-	-	-	-	-	%
Total Cooling Capacity		40.00	22.23	18.03	-	-	-	-	-	-	-	TR
Total Cooling Capacity		140.7	78.19	63.42	-	-	-	-	-	-	-	kW
Total Power Input		50.25	28.65	23.61	-	-	-	-	-	-	-	kW
Total Current		87	50	41	-	-	-	-	-	-	-	A
COP		2.799	2.730	2.686	-	-	-	-	-	-	-	kW/kW
Ambient Temperature		91.4	91.4	91.4	-	-	-	-	-	-	-	°F
EEWT		53.60	48.80	47.67	-	-	-	-	-	-	-	°F
ELWT		42.80	42.80	42.80	-	-	-	-	-	-	-	°F
Flow Rate		88.89	88.89	88.89	-	-	-	-	-	-	-	gpm
Pressure Drop		11.6	11.6	11.6	-	-	-	-	-	-	-	ft H ₂ O

Others

MCA		118										A
No. of Refrigerant Circuit		1										-
Refrigerant Type		R410A										-
Refrigerant Charge	System 1/2	55.1 / -										lb/System
Chiller Dimension	W / D / H	3.8 / 10.8 / 7.1										ft
Weight	Shipping	2492										lb
	Operating	2511										lb

Evaporator

Type		BPHE										-
Inlet/Outlet Diameter		2.5" Male BSPT										-
Flow Rate	Min / Max	44.03 / 143.1										gpm
Pressure Drop	Min / Max	1.94 / 31.7										ft H ₂ O

Compressor

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

Condenser

Coil												-
Tube	Type	Copper										-
Fin	Type	Aluminium										-
Surface Area/ Coil		62.00										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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09-Dec, 2022 15:39

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