

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 86.0 °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	:		80.00		80.00		TR
			281.4		281.4		kW
Current	:	Compressor	161		149		A
		Fan	18		18		A
		Total	179		167		A
Power Input	:	Compressor	92.17		83.12		kW
		Fan	12.00		12.00		kW
		Total	104.2		95.12		kW
COP	:		2.701		2.958		kW/kW
Flow Rate	:		192.0		177.8		gpm
Pressure Drop	:		10.7		9.49		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.					

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- Evaporator rating fouling factor = 0.000100 h.ft².°F/Btu, and rating altitude at 0 ft.

Part Load Performance

IPLV		3.933										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	81.6	76.1	58.0	52.6	47.1	29.0	23.5	-	-	%
Total Cooling Capacity		80.00	65.25	60.87	46.42	42.04	37.66	23.21	18.83	-	-	TR
Total Cooling Capacity		281.4	229.5	214.1	163.3	147.9	132.5	81.63	66.23	-	-	kW
Total Power Input		95.12	74.73	69.95	54.34	47.56	44.78	27.17	22.39	-	-	kW
Total Current		167	132	123	96	84	78	48	39	-	-	A
COP		2.958	3.071	3.061	3.004	3.109	2.958	3.004	2.958	-	-	kW/kW
Ambient Temperature		86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	-	-	°F
EEWT		53.60	51.61	51.02	49.07	48.48	47.88	45.93	45.34	-	-	°F
ELWT		42.80	42.80	42.80	42.80	42.80	42.80	42.80	42.80	-	-	°F
Flow Rate		177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	-	-	gpm
Pressure Drop		9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49	-	-	ft H ₂ O

Others

MCA		223										A
No. of Refrigerant Circuit		2										-
Refrigerant Type		R410A										-
Refrigerant Charge	System 1/2	55.1 / 55.1										lb/System
Chiller Dimension	W / D / H	7.3 / 10.7 / 7.1										ft
Weight	Shipping	6432										lb
	Operating	6701										lb

Evaporator

Type		S&T										-
Inlet/Outlet Diameter		5" Victaulic Joint										-
Flow Rate	Min / Max	66.04 / 249.6										gpm
Pressure Drop	Min / Max	1.67 / 15.7										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										-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org



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

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