

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Project Name CST
Created By : Cheong ST

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 95.0 °F Frequency : 50 Hz
Chilled Water : EWT 51.80 °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		78.16		TR
			281.4		274.9		kW
Current	:	Compressor	161		161		A
		Fan	18		18		A
		Total	179		179		A
Power Input	:	Compressor	92.17		92.10		kW
		Fan	12.00		12.00		kW
		Total	104.2		104.1		kW
COP	:		2.701		2.641		kW/kW
Flow Rate	:		192.0		208.4		gpm
Pressure Drop	:		10.7		12.1		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		3.933										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	77.6	72.4	55.2	50.0	44.8	27.6	22.4	-	-	%
Total Cooling Capacity		78.16	60.66	56.58	43.16	39.08	35.00	21.58	17.50	-	-	TR
Total Cooling Capacity		274.9	213.4	199.0	151.8	137.5	123.1	75.90	61.55	-	-	kW
Total Power Input		104.1	81.68	76.47	59.26	52.05	48.84	29.63	24.42	-	-	kW
Total Current		179	141	131	102	90	83	51	42	-	-	A
COP		2.641	2.612	2.602	2.562	2.641	2.520	2.562	2.520	-	-	kW/kW
Ambient Temperature		95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	-	-	°F
EEWT		51.80	49.78	49.32	47.77	47.30	46.83	45.28	44.82	-	-	°F
ELWT		42.80	42.80	42.80	42.80	42.80	42.80	42.80	42.80	-	-	°F
Flow Rate		208.4	208.4	208.4	208.4	208.4	208.4	208.4	208.4	-	-	gpm
Pressure Drop		12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	-	-	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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