

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

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.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	:	Copper		-
Tube	:	Type	Aluminium	-
Fin	:	Type	124.00	ft ² /Coil
Surface Area/ Coil	:	124.00		-
Fan	:	Axial / Direct		-
Type/ Drive	:	3		-
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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