

Project : Cheong Test Web
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 : Flow Rate 220.0 gpm 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		220.0	gpm
Pressure Drop		10.7		13.1	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	:	51.33	49.42	48.97	47.51	47.06	46.62	45.15	44.71	-	-	°F
ELWT	:	42.80	42.80	42.80	42.80	42.80	42.80	42.80	42.80	-	-	°F
Flow Rate	:	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	-	-	gpm
Pressure Drop	:	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	-	-	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

