

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 : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 11.00 °C Voltage : 380-415 V
LWT 6.00 °C 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	92.20		92.10	kW
	Fan	12.00		12.00	kW
	Total	104.2		104.1	kW
COP		2.700		2.641	kW/kW
Flow Rate		48.45		47.34	m ³ /h
Pressure Drop		37.4		36.1	kPa

Note : 1. Nominal data is based on the AHRI (551/591) standard condition of EWT/LWT of 12.00/7.00°C, and ambient temperature of 35.0°C.
2. Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
3. Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

IPLV	:	3.926										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	:	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT	:	11.00	9.88	9.62	8.76	8.50	8.24	7.38	7.12	-	-	°C
ELWT	:	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate	:	47.34	47.34	47.34	47.34	47.34	47.34	47.34	47.34	-	-	m³/h
Pressure Drop	:	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	-	-	kPa

Others

MCA		223	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	25.0 / 25.0	kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156	mm
Weight	Shipping	2917	kg
	Operating	3039	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	15.00 / 56.70	m ³ /h
Pressure Drop	Min / Max	5.00 / 47.0	kPa

Compressor

Quantity	System 1/2	2 / 2	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	13.4 / 13.4	L/System

Condenser

Coil			-
Tube	Type	Copper	-
Fin	Type	Aluminium	-
Surface Area/ Coil		11.52	m 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.

CSQS.C01.S01

16-Dec, 2022 11:43

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