



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : 17 Feb (Count + Image)

Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C

Ambient Temperature : 28.0 °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		80.00	TR
		281.4		281.4	kW
Current	Compressor	161		145	A
	Fan	18		18	A
	Total	179		163	A
Power Input	Compressor	92.20		79.94	kW
	Fan	12.00		12.00	kW
	Total	104.2		91.94	kW
COP		2.700		3.060	kW/kW
Flow Rate		48.45		48.45	m ³ /h
Pressure Drop		37.4		37.4	kPa

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	83.7	78.1	59.5	53.9	48.3	29.8	24.2	-	-	%
Total Cooling Capacity		80.00	66.98	62.50	47.64	43.16	38.68	23.82	19.34	-	-	TR
Total Cooling Capacity		281.4	235.6	219.8	167.5	151.8	136.0	83.77	68.01	-	-	kW
Total Power Input		91.94	72.27	67.64	52.60	45.97	43.34	26.30	21.67	-	-	kW
Total Current		163	129	120	94	82	76	47	38	-	-	A
COP		3.060	3.260	3.250	3.185	3.302	3.139	3.185	3.139	-	-	kW/kW
Ambient Temperature		28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	-	-	°C
EEWT		11.00	10.19	9.91	8.98	8.70	8.42	7.49	7.21	-	-	°C
ELWT		6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate		48.45	48.45	48.45	48.45	48.45	48.45	48.45	48.45	-	-	m ³ /h
Pressure Drop		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	-	-	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.

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22-Feb, 2023 13:58

Page : 1/2