



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : 17 Feb (Count + Image)

Created By : lee ming yang

Customer Input

Selected Model / Type : UAM100C3F / 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		100.0		100.0	TR
		351.7		351.7	kW
Current	Compressor	201		182	A
	Fan	24		24	A
	Total	225		206	A
Power Input	Compressor	116.4		100.4	kW
	Fan	16.00		16.00	kW
	Total	132.4		116.4	kW
COP		2.656		3.021	kW/kW
Flow Rate		60.56		60.56	m ³ /h
Pressure Drop		63.0		63.0	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		4.056										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	86.1	78.8	62.3	55.0	47.6	31.1	23.8	-	-	%
Total Cooling Capacity		100.0	86.10	78.78	62.28	54.96	47.64	31.14	23.82	-	-	TR
Total Cooling Capacity		351.7	302.8	277.1	219.0	193.3	167.5	109.5	83.77	-	-	kW
Total Power Input		116.4	90.13	84.51	63.84	58.22	52.60	31.92	26.30	-	-	kW
Total Current		206	159	150	113	103	94	57	47	-	-	A
COP		3.021	3.360	3.278	3.431	3.320	3.185	3.431	3.185	-	-	kW/kW
Ambient Temperature		28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	-	-	°C
EEWT		11.00	10.30	9.94	9.11	8.75	8.38	7.56	7.19	-	-	°C
ELWT		6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate		60.56	60.56	60.56	60.56	60.56	60.56	60.56	60.56	-	-	m ³ /h
Pressure Drop		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	-	-	kPa

Others

MCA		282	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	35.0 / 35.0	kg/System
Chiller Dimension	W / D / H	2237 / 4163 / 2156	mm
Weight	Shipping	3048	kg
	Operating	3239	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	16.40 / 70.40	m ³ /h
Pressure Drop	Min / Max	7.00 / 79.0	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		15.36	m ² /Coil
Fan			
Type/ Drive		Axial / Direct	-
Quantity per System		4	-

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

17-Feb, 2023 10:59

Page : 1/2