



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	35.0	°C	Frequency	50	Hz
Chilled Water	EWT	12.00	Voltage	380-415	V
	LWT	9.00	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		203	A
	Fan	24		24	A
	Total	225		227	A
Power Input	Compressor	116.4		116.2	kW
	Fan	16.00		16.00	kW
	Total	132.4		132.2	kW
COP		2.656		2.660	kW/kW
Flow Rate		60.56		66.88	m ³ /h
Pressure Drop		63.0		73.4	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		4.056										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	86.7	79.4	62.6	55.3	48.1	31.3	24.0	-	-	%
Total Cooling Capacity		100.0	86.65	79.39	62.61	55.35	48.09	31.31	24.04	-	-	TR
Total Cooling Capacity		351.7	304.8	279.2	220.2	194.7	169.1	110.1	84.56	-	-	kW
Total Power Input		132.2	102.5	95.81	72.78	66.10	59.42	36.39	29.71	-	-	kW
Total Current		227	176	165	125	114	102	63	51	-	-	A
COP		2.660	2.974	2.914	3.026	2.945	2.846	3.026	2.846	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT		13.53	12.92	12.59	11.83	11.51	11.18	10.42	10.09	-	-	°C
ELWT		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-	-	°C
Flow Rate		66.88	66.88	66.88	66.88	66.88	66.88	66.88	66.88	-	-	m ³ /h
Pressure Drop		73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	-	-	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.

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