



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
	: 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.

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