



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	°C	Voltage	: 380-415	V		
	: LWT 9.00	°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		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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