

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Selection Test 1010
Created By : Zi Yi

Customer Input

Selected Model / Type : UAM100C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 25.0 °C Frequency : 50 Hz
Chilled Water : EWT 0.00 °C Voltage : 380-415 V
LWT 8.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)				Input Conditions			
Cooling Capacity			100.0			100.0			TR
			351.7			351.7			kW
Current	Compressor		201			174			A
	Fan		24			24			A
	Total		225			198			A
Power Input	Compressor		116.4			94.52			kW
	Fan		16.00			16.00			kW
	Total		132.4			110.5			kW
COP			2.656			3.182			kW/kW
Flow Rate			54.56			50.00			m ³ /h
Pressure Drop			53.6			46.8			kPa

1. Nominal data is based on the MS2449 standard condition of EWT/LWT of 12.22/6.67°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

MPLV		3.198										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	96.0	87.8	69.5	61.3	53.1	34.7	26.6	-	-	%
Total Cooling Capacity		100.0	96.04	87.85	69.49	61.30	53.10	34.75	26.55	-	-	TR
Total Cooling Capacity		351.7	337.8	309.0	244.4	215.6	186.8	122.2	93.38	-	-	kW
Total Power Input		110.5	85.45	80.33	60.38	55.26	50.14	30.19	25.07	-	-	kW
Total Current		198	153	144	108	99	91	54	46	-	-	A
COP		3.182	3.953	3.846	4.048	3.901	3.725	4.048	3.725	-	-	kW/kW
Ambient Temperature		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-	°C
EEWT		14.06	13.82	13.32	12.21	11.71	11.22	10.10	9.61	-	-	°C
ELWT		8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	-	-	°C
Flow Rate		50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	m ³ /h
Pressure Drop		46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	-	-	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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