

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			
		351.7				351.7			
Current	Compressor	201				174			
	Fan	24				24			
	Total	225				198			
Power Input	Compressor	116.4				94.52			
	Fan	16.00				16.00			
	Total	132.4				110.5			
COP		2.656				3.182			
Flow Rate		54.56				50.00			
Pressure Drop		53.6				46.8			

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	-	-	m³/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										m³/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										m²/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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