

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM100C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 33.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
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			196				A
	Fan		24			24				A
	Total		225			220				A
Power Input	Compressor		116.4			111.6				kW
	Fan		16.00			16.00				kW
	Total		132.4			127.6				kW
COP			2.656			2.757				kW/kW
Flow Rate			60.56			50.47				m ³ /h
Pressure Drop			63.0			47.5				kPa

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- 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	79.9	73.3	57.6	51.1	44.5	28.8	22.2	-	-	%
Total Cooling Capacity		100.0	79.88	73.29	57.64	51.05	44.47	28.82	22.23	-	-	TR
Total Cooling Capacity		351.7	280.9	257.8	202.7	179.6	156.4	101.4	78.19	-	-	kW
Total Power Input		127.6	98.93	92.43	70.28	63.79	57.29	35.14	28.65	-	-	kW
Total Current		220	170	160	121	110	100	61	50	-	-	A
COP		2.757	2.840	2.789	2.885	2.815	2.730	2.885	2.730	-	-	kW/kW
Ambient Temperature		33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	-	-	°C
EEWT		12.00	10.79	10.40	9.46	9.06	8.67	7.73	7.33	-	-	°C
ELWT		6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate		50.47	50.47	50.47	50.47	50.47	50.47	50.47	50.47	-	-	m ³ /h
Pressure Drop		47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	-	-	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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