

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project :
Created By :

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	-	-	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									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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