

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : PProject1
Created By : pendency

Customer Input

Selected Model / Type : UAMH68A3F / Inverter Speed (Hybrid) Scroll Chiller Version A
Ambient Temperature : 25.0 °C Frequency : 50 Hz
Chilled Water : EWT 0.00 °C Voltage : 400 V
LWT 8.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)				Input Conditions				
Cooling Capacity	:		69.70			70.00				TR
			245.1			246.2				kW
Current	:	Compressor	124			84				A
		Fan	9			9				A
		Total	133			93				A
Power Input	:	Compressor	74.64			45.63				kW
		Fan	5.400			5.400				kW
		Total	80.04			51.03				kW
COP	:		3.063			4.824				kW/kW
Flow Rate	:		38.03			50.00				m ³ /h
Pressure Drop	:		25.9			39.2				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	:	3.850										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	90.0	80.0	70.0	60.0	50.0	40.0	30.0	20.0	12.2	%
Total Cooling Capacity	:	70.00	63.00	56.00	49.00	42.00	35.00	28.00	21.00	14.00	8.573	TR
Total Cooling Capacity	:	246.2	221.6	197.0	172.3	147.7	123.1	98.48	73.86	49.24	30.15	kW
Total Power Input	:	51.03	46.92	41.28	36.49	30.89	25.50	20.94	15.84	10.69	7.263	kW
Total Current	:	93	83	75	67	54	47	39	27	20	14	A
COP	:	4.824	4.723	4.771	4.723	4.782	4.827	4.702	4.661	4.604	4.151	kW/kW
Ambient Temperature	:	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	°C
EEWT	:	12.24	11.82	11.39	10.97	10.54	10.12	9.70	9.27	8.85	8.52	°C
ELWT	:	8.00	8.00	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	50.00	50.00	m ³ /h
Pressure Drop	:	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	kPa

Others

MCA	:	175										A
No. of Refrigerant Circuit	:	2										-
Refrigerant Type	:	R410A										-
Refrigerant Charge	:	System 1/2	25.0 / 25.0									kg/System
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156									mm
Weight	:	Shipping	2052									kg
	:	Operating	2174									kg

Evaporator

Type	:	S&T										-
Inlet/Outlet Diameter	:	4" Victaulic Joint										-
Flow Rate	:	Min / Max	15.00 / 56.70									m ³ /h
Pressure Drop	:	Min / Max	5.00 / 47.0									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	:		11.52	m²/Coil
Fan				
Type/ Drive	:		Axial / Direct	-
Quantity per System	:		3	-

Note : For any enquiry, please contact your authorized sales agent.

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