

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : TEST
Created By : Kelvin

Customer Input

Selected Model / Type : UAMH50A3F / 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	:		50.15			50.00				TR
			176.4			175.9				kW
Current	:	Compressor	93			61				A
		Fan	9			8				A
		Total	102			69				A
Power Input	:	Compressor	55.02			33.60				kW
		Fan	5.400			4.500				kW
		Total	60.42			38.10				kW
COP	:		2.919			4.616				kW/kW
Flow Rate	:		27.36			50.00				m ³ /h
Pressure Drop	:		15.4			39.2				kPa

- Note :
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	:	3.686										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	10.0	%
Total Cooling Capacity	:	50.00	45.00	40.00	35.00	30.00	25.00	20.00	15.00	10.00	5.000	TR
Total Cooling Capacity	:	175.9	158.3	140.7	123.1	105.5	87.93	70.34	52.76	35.17	17.59	kW
Total Power Input	:	38.10	34.09	31.61	27.58	22.89	19.09	17.30	13.48	8.626	5.027	kW
Total Current	:	69	63	56	50	41	36	30	24	15	10	A
COP	:	4.616	4.642	4.450	4.462	4.610	4.606	4.066	3.914	4.077	3.498	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	:	11.03	10.73	10.42	10.12	9.82	9.51	9.21	8.91	8.61	8.30	°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	:	133										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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