



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : sharing purpose
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM60CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 31.6 °C Frequency : 60 Hz
Chilled Water : Flow Rate 37.60 m³/h Voltage : 380 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		61.92		65.17	TR
		217.8		229.2	kW
Current	Compressor	132		125	A
	Fan	21		21	A
	Total	153		146	A
Power Input	Compressor	70.76		65.81	kW
	Fan	9.000		9.000	kW
	Total	79.76		74.81	kW
COP		2.730		3.064	kW/kW
Flow Rate		37.50		37.60	m ³ /h
Pressure Drop		40.7		40.9	kPa

Note :
1. 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.
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

IPLV	:	3.988										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	78.6	71.4	57.2	50.0	42.8	28.6	21.4	-	-	%
Total Cooling Capacity	:	65.17	51.24	46.52	37.30	32.59	27.87	18.65	13.93	-	-	TR
Total Cooling Capacity	:	229.2	180.2	163.6	131.2	114.6	98.02	65.59	49.01	-	-	kW
Total Power Input	:	74.81	59.32	54.39	43.84	37.40	33.96	21.92	16.98	-	-	kW
Total Current	:	146	114	109	83	73	71	42	36	-	-	A
COP	:	3.064	3.037	3.008	2.992	3.064	2.886	2.992	2.886	-	-	kW/kW
Ambient Temperature	:	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	-	-	°C
EEWT	:	12.25	11.13	10.75	10.00	9.62	9.24	8.50	8.12	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-	-	°C
Flow Rate	:	37.60	37.60	37.60	37.60	37.60	37.60	37.60	37.60	-	-	m³/h
Pressure Drop	:	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	-	-	kPa

Others

MCA		187	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	21.0 / 21.0	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	13.70 / 61.20	m ³ /h
Pressure Drop	Min / Max	7.00 / 90.0	kPa

Compressor

Quantity	System 1/2	2 / 2	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	10.3 / 10.3	L/System

Condenser

Coil			
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		11.52	m ² /Coil
Fan			
Type/ Drive		Axial / Direct	-
Quantity per System		3	-

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

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