



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Legoland Johor Chiller Replacement
Created By : Nur Athirah Binti Abdullah

Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 34.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity			59.27	60.18	TR
			208.5	211.7	kW
Current	Compressor		115	113	A
	Fan		18	18	A
	Total		133	131	A
Power Input	Compressor		67.18	65.75	kW
	Fan		12.00	12.00	kW
	Total		79.18	77.75	kW
COP			2.633	2.722	kW/kW
Flow Rate			35.90	36.45	m ³ /h
Pressure Drop			37.9	38.9	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 m ² .K/kW, and rating altitude at 0 m.				

Part Load Performance

IPLV		3.850										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		60.18	45.14	30.09	15.05	-	-	-	-	-	-	TR
Total Cooling Capacity		211.7	158.7	105.8	52.91	-	-	-	-	-	-	kW
Total Power Input		77.75	59.32	38.88	20.44	-	-	-	-	-	-	kW
Total Current		131	100	66	35	-	-	-	-	-	-	A
COP		2.722	2.676	2.722	2.589	-	-	-	-	-	-	kW/kW
Ambient Temperature		34.0	34.0	34.0	34.0	-	-	-	-	-	-	°C
EEWT		12.00	10.75	9.50	8.25	-	-	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	-	-	-	-	-	-	°C
Flow Rate		36.45	36.45	36.45	36.45	-	-	-	-	-	-	m ³ /h
Pressure Drop		38.9	38.9	38.9	38.9	-	-	-	-	-	-	kPa

Others

MCA		164	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	13.4 / 13.4	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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