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 altitute 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.