CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project	:	Project Ryoka Bangi
Created By	:	Nur Athirah Binti Abdullah

Customer Input

Selected Model / Type	:	UAM80CFM		/	Fixed Speed Scroll Chiller Version C			
Ambient Temperature	:		35.0	°C	Frequency	:	50	Hz
Chilled Water	:	EWT	20.00	°C	Voltage	:	380-415	V
		LWT	15.00	°C	Country of Origin	:	Malaysia	

Generated Outputs

Full Load Performance

			Nominal Data (AHRI Standard)	Input Conditions	
Cooling Capacity	:		80.99	104.0	TR
			284.8	365.8	kW
Current	:	Compressor	161	163	A
		Fan	18	18	A
		Total	179	181	A
Power Input	:	Compressor	92.19	93.16	kW
		Fan	12.00	12.00	kW
		Total	104.2	105.2	kW
COP	:		2.734	3.478	kW/kW
Flow Rate	:		49.05	53.87	m^3/h
Pressure Drop	:		38.1	43.8	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	:	-									kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	80.0	74.5	57.0	51.5	46.0	28.5	23.0	-	-	%
Total Cooling Capacity	:	104.0	83.16	77.45	59.25	53.54	47.83	29.62	23.92	-	-	TR
Total Cooling Capacity	:	365.8	292.5	272.4	208.4	188.3	168.2	104.2	84.11	-	-	kW
Total Power Input	:	105.2	82.50	77.24	59.84	52.58	49.32	29.92	24.66	-	-	kW
Total Current	:	181	142	132	103	91	84	52	42	-	-	A
COP	:	3.478	3.545	3.527	3.482	3.581	3.411	3.482	3.411	-	-	kW/kW
Ambient Temperature	:	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT	:	20.85	19.68	19.35	18.33	18.01	17.69	16.67	16.34	-	-	°C
ELWT	:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-	-	°C
Flow Rate	:	53.87	53.87	53.87	53.87	53.87	53.87	53.87	53.87	-	-	m^3/h
Pressure Drop	:	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	-	-	kPa

Others

MCA	:		223	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	2917	kg
		Operating	3039	kg

Evaporator

Type	:		S&T	-
Inlet/Outlet Diameter	:		5" 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 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.