CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : aa
Created By : author

Customer Input

Selected Model / Type	:	UAM100C3F		/	Fixed Speed Scroll Chiller Version C				
Ambient Temperature	:		25.0	°C	Frequency	:	50	Hz	
Chilled Water	:	EWT	0.00	°C	Voltage	:	380-415	V	
		LWT	8.00	°C	Country of Origin	:	Malaysia		

Generated Outputs

Full Load Performance			Nominal Data (MS Standard)	Input Conditions	
Cooling Capacity	:		100.0	100.0	TR
			351.7	351.7	kW
Current	:	Compressor	201	174	A
		Fan	24	24	A
		Total	225	198	A
Power Input	:	Compressor	116.4	94.52	kW
		Fan	16.00	16.00	kW
		Total	132.4	110.5	kW
COP	:		2.656	3.182	kW/kW
Flow Rate	:		54.56	50.00	m^3/h
Pressure Drop	:		53.6	46.8	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 m??.K/kW, and rating altitute at 0 m.

Part Load Performance

MPLV	:		3.198									kW/kW
Point	:		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:		100.0	96.0	87.8	69.5	61.3	53.1	34.7	26.6	-	-	%
Total Cooling Capacity	:		100.0	96.04	87.85	69.49	61.30	53.10	34.75	26.55	-	-	TR
Total Cooling Capacity	:		351.7	337.8	309.0	244.4	215.6	186.8	122.2	93.38	-	-	kW
Total Power Input	:		110.5	85.45	80.33	60.38	55.26	50.14	30.19	25.07	-	-	kW
Total Current	:		198	153	144	108	99	91	54	46	-	-	A
COP	:		3.182	3.953	3.846	4.048	3.901	3.725	4.048	3.725	-	-	kW/kW
Ambient Temperature	:		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-	°C
EEWT	:		14.06	13.82	13.32	12.21	11.71	11.22	10.10	9.61	-	-	°C
ELWT	:		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	-	-	m^3/h
Pressure Drop	:		46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	-	-	kPa

Others

MCA	:		282	A
No. of Refrigerant Circuit	:		2	-
Refrigerant Type	:		R410A	-
Refrigerant Charge	:	System 1/2	35.0 / 35.0	kg/System
Chiller Dimension	:	W / D / H	2237 / 4163 / 2156	mm
Weight	:	Shipping	3048	kg
		Operating	3239	kg

Evaporator

Type	:		S&T	-
Inlet/Outlet Diameter	:		5" Victaulic Joint	
Flow Rate	:	Min / Max	16.40 / 70.40	m^3/h
Pressure Drop	:	Min / Max	7.00 / 79.0	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	:		15.36	m^2/Coil
Fan				
Type/ Drive	:		Axial / Direct	-
Quantity per System	:		4	-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org

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