

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : hop
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 33.0 °C Frequency : 50 Hz
Chilled Water : EWT 11.00 °C Voltage : 380-415 V
LWT 6.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		80.00		80.00	TR
		281.4		281.4	kW
Current	Compressor	161		156	A
	Fan	18		18	A
	Total	179		174	A
Power Input	Compressor	92.20		88.51	kW
	Fan	12.00		12.00	kW
	Total	104.2		100.5	kW
COP		2.700		2.799	kW/kW
Flow Rate		48.45		48.45	m ³ /h
Pressure Drop		37.4		37.4	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		3.926								kW/kW
Point		1	2	2	3	3	4	-	-	-
Corresponding Capacity		100.0	82.0	62.5	55.7	34.2	29.6	-	-	-
Total Cooling Capacity		80.00	65.59	50.00	44.59	27.37	23.69	-	-	-
Total Cooling Capacity		281.4	230.7	175.9	156.8	96.25	83.32	-	-	-
Total Power Input		104.2	66.57	51.80	37.56	22.79	17.21	-	-	-
Total Current		179	118	93	69	43	33	-	-	-
COP		2.700	3.465	3.395	4.175	4.223	4.841	-	-	-
Ambient Temperature		35.0	27.0	27.0	19.0	19.0	13.0	-	-	-
EEWT		12.00	11.10	10.13	9.79	8.71	8.48	-	-	-
ELWT		7.00	7.00	7.00	7.00	7.00	7.00	-	-	-
Flow Rate		48.45	48.45	48.45	48.45	48.45	48.45	-	-	-
Pressure Drop		37.4	37.4	37.4	37.4	37.4	37.4	-	-	-

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

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.

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