



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Test
Created By : Admin Codetinker

Customer Input

Selected Model / Type : UAM80CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 40.0 °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		80.99		74.63	TR
		284.8		262.5	kW
Current	Compressor	161		175	A
	Fan	18		18	A
	Total	179		193	A
Power Input	Compressor	92.19		102.3	kW
	Fan	12.00		12.00	kW
	Total	104.2		114.3	kW
COP		2.734		2.297	kW/kW
Flow Rate		49.05		45.20	m ³ /h
Pressure Drop		38.1		33.6	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	:	-										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	77.6	72.4	55.2	50.0	44.8	27.6	22.4	-	-	%
Total Cooling Capacity	:	74.63	57.93	54.02	41.22	37.32	33.41	20.61	16.71	-	-	TR
Total Cooling Capacity	:	262.5	203.7	190.0	145.0	131.2	117.5	72.48	58.76	-	-	kW
Total Power Input	:	114.3	89.55	83.83	64.85	57.13	53.41	32.42	26.70	-	-	kW
Total Current	:	193	151	141	110	97	90	55	45	-	-	A
COP	:	2.297	2.275	2.266	2.235	2.297	2.200	2.235	2.200	-	-	kW/kW
Ambient Temperature	:	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	-	-	°C
EEWT	:	12.00	10.88	10.62	9.76	9.50	9.24	8.38	8.12	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-	-	°C
Flow Rate	:	45.20	45.20	45.20	45.20	45.20	45.20	45.20	45.20	-	-	m³/h
Pressure Drop	:	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	-	-	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.

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