



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM80CUM
Created By : KONG CHU YEE

Customer Input

Selected Model / Type : UAM80CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 35.0 °C Frequency : 60 Hz
Chilled Water : EWT 12.00 °C Voltage : 380 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity	:		79.28	80.21	TR
			278.8	282.1	kW
Current	:	Compressor	167	167	A
		Fan	21	21	A
		Total	188	188	A
Power Input	:	Compressor	89.81	89.90	kW
		Fan	9.000	9.000	kW
		Total	98.81	98.90	kW
COP	:		2.822	2.852	kW/kW
Flow Rate	:		43.26	48.58	m³/h
Pressure Drop	:		57.3	68.3	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 m².K/kW, and rating altitude at 0 m.			

Part Load Performance

MPLV	:	3.368									kW/kW	
Point	:	1	2	2	3	3	4	4	-	-	-	
Corresponding Capacity	:	100.0	70.1	52.5	55.0	36.7	37.7	18.8	-	-	-	%
Total Cooling Capacity	:	79.28	55.54	41.65	43.62	29.08	29.88	14.94	-	-	-	TR
Total Cooling Capacity	:	278.8	195.3	146.5	153.4	102.3	105.1	52.55	-	-	-	kW
Total Power Input	:	98.81	63.67	49.63	43.98	29.32	28.26	15.63	-	-	-	kW
Total Current	:	188	124	98	87	58	57	32	-	-	-	A
COP	:	2.822	3.068	2.952	3.488	3.488	3.718	3.362	-	-	-	kW/kW
Ambient Temperature	:	35.0	31.5	31.5	27.9	27.9	25.6	25.6	-	-	-	°C
EEWT	:	12.22	10.56	9.59	9.72	8.71	8.76	7.72	-	-	-	°C
ELWT	:	6.67	6.67	6.67	6.67	6.67	6.67	6.67	-	-	-	°C
Flow Rate	:	43.26	43.26	43.26	43.26	43.26	43.26	43.26	-	-	-	m³/h
Pressure Drop	:	57.3	57.3	57.3	57.3	57.3	57.3	57.3	-	-	-	kPa

Others

MCA		226									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	2819									kg
	Operating	2941									kg

Evaporator

Type		S&T									-
Inlet/Outlet Diameter		5" Victaulic Joint									-
Flow Rate	Min / Max	12.60 / 52.30									m ³ /h
Pressure Drop	Min / Max	7.00 / 76.0									kPa

Compressor

Quantity	System 1/2	3 / 3									-
Type		Hermetic-sealed (Scroll)									-
Oil Charge	System 1/2	20.1 / 20.1									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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