



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang
Created By : DRMSA Software

Customer Input

Selected Model / Type : UAM80CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °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	80.99	TR
			284.8	284.8	kW
Current	Compressor		161	161	A
	Fan		18	18	A
	Total		179	179	A
Power Input	Compressor		92.19	92.19	kW
	Fan		12.00	12.00	kW
	Total		104.2	104.2	kW
COP			2.734	2.734	kW/kW
Flow Rate			49.05	49.05	m ³ /h
Pressure Drop			38.1	38.1	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		-										kW/kW
Point		1	2	2	3	3	-	-	-	-	-	
Corresponding Capacity		100.0	81.0	61.7	55.1	33.8	-	-	-	-	-	%
Total Cooling Capacity		80.99	65.57	49.99	44.60	27.38	-	-	-	-	-	TR
Total Cooling Capacity		284.8	230.6	175.8	156.8	96.28	-	-	-	-	-	kW
Total Power Input		104.2	66.49	51.72	37.53	22.77	-	-	-	-	-	kW
Total Current		179	118	93	69	43	-	-	-	-	-	A
COP		2.734	3.469	3.399	4.179	4.228	-	-	-	-	-	kW/kW
Ambient Temperature		35.0	27.0	27.0	19.0	19.0	-	-	-	-	-	°C
EEWT		12.00	11.05	10.09	9.75	8.69	-	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	7.00	-	-	-	-	-	°C
Flow Rate		49.05	49.05	49.05	49.05	49.05	-	-	-	-	-	m ³ /h
Pressure Drop		38.1	38.1	38.1	38.1	38.1	-	-	-	-	-	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	-