



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang
Created By : DRMSA Software

Customer Input

Selected Model / Type : UAM60CFM / 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			59.27	59.27	TR
			208.5	208.5	kW
Current	Compressor		115	115	A
	Fan		18	18	A
	Total		133	133	A
Power Input	Compressor		67.18	67.18	kW
	Fan		12.00	12.00	kW
	Total		79.18	79.18	kW
COP			2.633	2.633	kW/kW
Flow Rate			35.90	35.90	m ³ /h
Pressure Drop			37.9	37.9	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	:	3.850									kW/kW	
Point	:	1	2	2	3	3	4	-	-	-	-	
Corresponding Capacity	:	100.0	83.9	55.9	61.3	30.7	32.5	-	-	-	-	%
Total Cooling Capacity	:	59.27	49.72	33.14	36.34	18.17	19.27	-	-	-	-	TR
Total Cooling Capacity	:	208.5	174.9	116.6	127.8	63.91	67.76	-	-	-	-	kW
Total Power Input	:	79.18	52.47	34.32	29.96	15.98	14.61	-	-	-	-	kW
Total Current	:	133	91	60	55	29	27	-	-	-	-	A
COP	:	2.633	3.332	3.397	4.267	4.000	4.639	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	-	-	°C
EEWT	:	12.00	11.19	9.80	10.07	8.53	8.63	-	-	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate	:	35.90	35.90	35.90	35.90	35.90	35.90	-	-	-	-	m³/h
Pressure Drop	:	37.9	37.9	37.9	37.9	37.9	37.9	-	-	-	-	kPa

Others

MCA		164	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	21.0 / 21.0	kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156	mm
Weight	Shipping	2052	kg
	Operating	2174	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		4" Victaulic Joint	-
Flow Rate	Min / Max	13.70 / 61.20	m ³ /h
Pressure Drop	Min / Max	7.00 / 90.0	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	-