

Project : ACM Sungai Petani
Created By : Andrew Lim

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 (MS Standard)		Input Conditions	
Cooling Capacity		58.58		59.27	TR
		206.0		208.5	kW
Current	Compressor	115		115	A
	Fan	18		18	A
	Total	133		133	A
Power Input	Compressor	67.17		67.18	kW
	Fan	12.00		12.00	kW
	Total	79.17		79.18	kW
COP		2.602		2.633	kW/kW
Flow Rate		31.96		35.90	m ³ /h
Pressure Drop		31.4		37.9	kPa

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

MPLV		-										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		59.27	44.45	29.64	14.82	-	-	-	-	-	-	TR
Total Cooling Capacity		208.5	156.3	104.2	52.11	-	-	-	-	-	-	kW
Total Power Input		79.18	60.39	39.59	20.80	-	-	-	-	-	-	kW
Total Current		133	101	67	35	-	-	-	-	-	-	A
COP		2.633	2.589	2.633	2.506	-	-	-	-	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	-	-	-	-	-	-	°C
EEWT		12.00	10.75	9.50	8.25	-	-	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	-	-	-	-	-	-	°C
Flow Rate		35.90	35.90	35.90	35.90	-	-	-	-	-	-	m ³ /h
Pressure Drop		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	-