

Project : 123
Created By : Lim Mei Yee

Customer Input

Selected Model / Type : UAM60CUM / 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		61.18		61.92	TR
		215.2		217.8	kW
Current	Compressor	132		132	A
	Fan	21		21	A
	Total	153		153	A
Power Input	Compressor	70.75		70.76	kW
	Fan	9.000		9.000	kW
	Total	79.75		79.76	kW
COP		2.698		2.730	kW/kW
Flow Rate		33.38		37.50	m ³ /h
Pressure Drop		33.7		40.7	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		-										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	78.6	71.4	57.2	50.0	42.8	28.6	21.4	-	-	%
Total Cooling Capacity		61.92	48.68	44.20	35.44	30.96	26.48	17.72	13.24	-	-	TR
Total Cooling Capacity		217.8	171.2	155.5	124.6	108.9	93.14	62.32	46.57	-	-	kW
Total Power Input		79.76	63.26	57.88	46.76	39.88	36.00	23.38	18.00	-	-	kW
Total Current		153	120	113	87	77	74	44	37	-	-	A
COP		2.730	2.706	2.686	2.665	2.730	2.587	2.665	2.587	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT		12.00	10.93	10.57	9.86	9.50	9.14	8.43	8.07	-	-	°C
ELWT		7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-	-	°C
Flow Rate		37.50	37.50	37.50	37.50	37.50	37.50	37.50	37.50	-	-	m ³ /h
Pressure Drop		40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	-	-	kPa

Others

MCA		187	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	10.3 / 10.3	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	-