

Project : Lee Ming Yang
Created By : DRMSA Software

Customer Input

Selected Model / Type : UAM60CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 33.0 °C Frequency : 60 Hz
Chilled Water : EWT 11.00 °C Voltage : 380 V
LWT 6.50 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		61.92		62.67	TR
		217.8		220.4	kW
Current	Compressor	132		128	A
	Fan	21		21	A
	Total	153		149	A
Power Input	Compressor	70.76		67.82	kW
	Fan	9.000		9.000	kW
	Total	79.76		76.82	kW
COP		2.730		2.869	kW/kW
Flow Rate		37.50		42.17	m ³ /h
Pressure Drop		40.7		49.3	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		3.988										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		62.67	49.27	44.73	35.87	31.34	26.80	17.94	13.40	-	-	TR
Total Cooling Capacity		220.4	173.3	157.3	126.2	110.2	94.24	63.08	47.12	-	-	kW
Total Power Input		76.82	60.92	55.81	45.02	38.41	34.79	22.51	17.40	-	-	kW
Total Current		149	117	111	84	75	72	42	36	-	-	A
COP		2.869	2.844	2.819	2.802	2.869	2.709	2.802	2.709	-	-	kW/kW
Ambient Temperature		33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	-	-	°C
EEWT		11.00	10.04	9.71	9.08	8.75	8.42	7.79	7.46	-	-	°C
ELWT		6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	-	-	°C
Flow Rate		42.17	42.17	42.17	42.17	42.17	42.17	42.17	42.17	-	-	m ³ /h
Pressure Drop		49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	-	-	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	-