

Project : aaabbbb
Created By : AUTHOR R

Customer Input

Selected Model / Type : UAM100C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 25.0 °C Frequency : 50 Hz
Chilled Water : EWT 0.00 °C Voltage : 380-415 V
LWT 8.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity	:		100.0	100.0	TR
			351.7	351.7	kW
Current	:	Compressor	201	174	A
		Fan	24	24	A
		Total	225	198	A
Power Input	:	Compressor	116.4	94.52	kW
		Fan	16.00	16.00	kW
		Total	132.4	110.5	kW
COP	:		2.656	3.182	kW/kW
Flow Rate	:		54.56	50.00	m ³ /h
Pressure Drop	:		53.6	46.8	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	:	3.198										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	96.0	87.8	69.5	61.3	53.1	34.7	26.6	-	-	%
Total Cooling Capacity	:	100.0	96.04	87.85	69.49	61.30	53.10	34.75	26.55	-	-	TR
Total Cooling Capacity	:	351.7	337.8	309.0	244.4	215.6	186.8	122.2	93.38	-	-	kW
Total Power Input	:	110.5	85.45	80.33	60.38	55.26	50.14	30.19	25.07	-	-	kW
Total Current	:	198	153	144	108	99	91	54	46	-	-	A
COP	:	3.182	3.953	3.846	4.048	3.901	3.725	4.048	3.725	-	-	kW/kW
Ambient Temperature	:	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-	°C
EEWT	:	14.06	13.82	13.32	12.21	11.71	11.22	10.10	9.61	-	-	°C
ELWT	:	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	-	-	°C
Flow Rate	:	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	m ³ /h
Pressure Drop	:	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	-	-	kPa

Others

MCA	:	282	A
No. of Refrigerant Circuit	:	2	-
Refrigerant Type	:	R410A	-
Refrigerant Charge	: System 1/2	35.0 / 35.0	kg/System
Chiller Dimension	: W / D / H	2237 / 4163 / 2156	mm
Weight	: Shipping	3048	kg
	: Operating	3239	kg

Evaporator

Type	:	S&T	-
Inlet/Outlet Diameter	:	5" Victaulic Joint	-
Flow Rate	: Min / Max	16.40 / 70.40	m ³ /h
Pressure Drop	: Min / Max	7.00 / 79.0	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	-
Fin	: Type	Aluminium	-
Surface Area/ Coil	:	15.36	m ² /Coil
Fan	:		-
Type/ Drive	:	Axial / Direct	-
Quantity per System	:	4	-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org

