

Project : ABC hotel
Created By : Cheong ST

Customer Input

Selected Model / Type : UAM100C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 30.0 °C Frequency : 50 Hz
Chilled Water : EWT 11.00 °C Voltage : 380-415 V
LWT 6.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity	:		100.0	100.0	TR
			351.7	351.7	kW
Current	:	Compressor	201	187	A
		Fan	24	24	A
		Total	225	211	A
Power Input	:	Compressor	116.4	104.5	kW
		Fan	16.00	16.00	kW
		Total	132.4	120.5	kW
COP	:		2.656	2.919	kW/kW
Flow Rate	:		60.56	60.56	m ³ /h
Pressure Drop	:		63.0	63.0	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 m².K/kW, and rating altitude at 0 m.

Part Load Performance

IPLV	:	4.056										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	83.8	76.7	60.6	53.5	46.4	30.3	23.2	-	-	%
Total Cooling Capacity	:	100.0	83.83	76.73	60.62	53.52	46.42	30.31	23.21	-	-	TR
Total Cooling Capacity	:	351.7	294.8	269.9	213.2	188.2	163.3	106.6	81.63	-	-	kW
Total Power Input	:	120.5	93.31	87.41	66.14	60.24	54.34	33.07	27.17	-	-	kW
Total Current	:	211	164	154	116	106	96	58	48	-	-	A
COP	:	2.919	3.160	3.087	3.223	3.125	3.004	3.223	3.004	-	-	kW/kW
Ambient Temperature	:	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	-	-	°C
EEWT	:	11.00	10.19	9.84	9.03	8.68	8.32	7.52	7.16	-	-	°C
ELWT	:	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate	:	60.56	60.56	60.56	60.56	60.56	60.56	60.56	60.56	-	-	m³/h
Pressure Drop	:	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	-	-	kPa

Others

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

Evaporator

Type	:	S&T	-
Inlet/Outlet Diameter	:	5" Victaulic Joint	-
Flow Rate	:	Min / Max	16.40 / 70.40
Pressure Drop	:	Min / Max	7.00 / 79.0

Compressor

Quantity	:	System 1/2	2 / 2
Type	:		Hermetic-sealed (Scroll)
Oil Charge	:	System 1/2	13.4 / 13.4

Condenser

Coil	:		
Tube	:	Type	Copper
Fin	:	Type	Aluminium
Surface Area/ Coil	:		15.36
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

