

Project :
Created By :

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 8.00 °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	104.8	kW
		Fan	16.00	16.00	kW
		Total	132.4	120.8	kW
COP	:		2.656	2.911	kW/kW
Flow Rate	:		60.56	66.88	m ³ /h
Pressure Drop	:		63.0	73.4	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	2	3	3	4	-	-	-
Corresponding Capacity	:	100.0	82.7	65.4	54.7	35.9	29.0	-	-	-
Total Cooling Capacity	:	100.0	82.70	65.40	54.74	35.92	28.99	-	-	TR
Total Cooling Capacity	:	351.7	290.9	230.0	192.5	126.3	102.0	-	-	kW
Total Power Input	:	132.4	83.16	62.74	45.58	26.82	20.88	-	-	kW
Total Current	:	225	148	111	85	50	40	-	-	A
COP	:	2.656	3.497	3.666	4.223	4.710	4.883	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	°C
EEWT	:	12.00	11.14	10.27	9.74	8.80	8.45	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	°C
Flow Rate	:	60.56	60.56	60.56	60.56	60.56	60.56	-	-	m ³ /h
Pressure Drop	:	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						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

