

Project : CSS Dec-28
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 41.0 °C Frequency : 50 Hz
Chilled Water : EWT 0.00 °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	:	80.00	70.48	TR	
		281.4	247.9	kW	
Current	:	161	178	A	
		18	18	A	
		179	196	A	
Power Input	:	92.20	104.4	kW	
		12.00	12.00	kW	
		104.2	116.4	kW	
COP	:	2.700	2.129	kW/kW	
Flow Rate	:	48.45	53.87	m ³ /h	
Pressure Drop	:	37.4	43.8	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	:	3.926								kW/kW
Point	:	1	2	2	3	3	4	-	-	-
Corresponding Capacity	:	100.0	82.0	62.5	55.7	34.2	29.6	-	-	-
Total Cooling Capacity	:	80.00	65.59	50.00	44.59	27.37	23.69	-	-	-
Total Cooling Capacity	:	281.4	230.7	175.9	156.8	96.25	83.32	-	-	-
Total Power Input	:	104.2	66.57	51.80	37.56	22.79	17.21	-	-	-
Total Current	:	179	118	93	69	43	33	-	-	-
COP	:	2.700	3.465	3.395	4.175	4.223	4.841	-	-	-
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	-
EEWT	:	12.00	11.10	10.13	9.79	8.71	8.48	-	-	-
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-
Flow Rate	:	48.45	48.45	48.45	48.45	48.45	48.45	-	-	-
Pressure Drop	:	37.4	37.4	37.4	37.4	37.4	37.4	-	-	-

Others

MCA	:	223	A
No. of Refrigerant Circuit	:	2	-
Refrigerant Type	:	R410A	-
Refrigerant Charge	:	System 1/2	25.0 / 25.0
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156
Weight	:	Shipping	2917
	:	Operating	3039

Evaporator

Type	:	S&T	-
Inlet/Outlet Diameter	:	5" Victaulic Joint	-
Flow Rate	:	Min / Max	15.00 / 56.70
Pressure Drop	:	Min / Max	5.00 / 47.0

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	:		11.52
Fan	:		
Type/ Drive	:		Axial / Direct
Quantity per System	:		3

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

