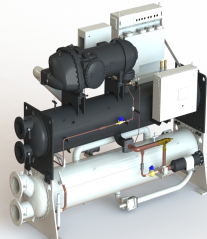


Single Screw Chiller



Job Information				Technical Data Sheet										
Job Name	HOSPITAL ANA NERY													
Date	16/07/2026 10:56:49													
Submitted By	Bruno Araujo													
Software Version	ZUW-G 1.4.0													
Unit Tag	Screw001													
Country of Origin	China													
Application	Commercial													
														
Unit Overview														
Unit Name	Capacity kW	COP kW / kW	NPLV.IP kW / kW	IPLV.IP kW / kW	Power Supply	Starter Type								
ZUWV	570,0	5,733	9,960		380 V / 60 Hz	VFD-Air cooled								
Unit														
Model		ZUWV150.1-HC												
Approval		AHRI												
ChillerCode		F												
Service Code		ZUWV150S331CU/E1809-CH-2/N2209-DK-2-NNCFA												
Compressor Quantity		Compressor Code		Capacity Control		Refrigerant		Estimated Refrigerant Quantity						
1		F3BL-A		Speed		R134a		190 kg						
Evaporator														
EWT	LWT	Fluid Type		Actual Fluid Flow		Min Fluid Flow		Max Fluid Flow		Fouling Factor				
13,60 °C	5,60 °C	Water		16,99 l/s		8.960 l/s		53.76 l/s		0,0180 °C·m²/kW				
Condenser														
EWT	LWT	Fluid Type		Actual Fluid Flow		Min Fluid Flow		Max Fluid Flow		Fouling Factor				
29,50 °C	35,00 °C	Water		29,27 l/s		11.85 l/s		71.09 l/s		0,0440 °C·m²/kW				
Unit Performance(Cooling Mode)														
Performance Points Rated with AHRI(550/590) Condenser Relief														
Point #	% of Full Load	Capacity kW	Input	Cooling COP kW/kW	Cooling kW/tonR	RLA A	Evaporator Fluid				Condenser Fluid			
							Flow l/s	EWT °C	LWT °C	PD kPa	Flow l/s	EWT °C	LWT °C	PD kPa
1	100,0	570,0	99,42	5,733	0,6134	159	16,99	13,60	5,60	17,2	29,27	29,50	35,00	22,3
2	90,0	513,0	76,13	6,739	0,5219	123	16,99	12,80	5,60	17,3	29,27	27,27	32,11	22,7
3	80,0	456,0	58,71	7,766	0,4528	96	16,99	12,00	5,60	17,3	29,27	25,03	29,25	23,1
4	70,0	399,0	45,34	8,799	0,3997	74	16,99	11,20	5,60	17,4	29,27	22,80	26,44	23,5
5	60,0	342,0	34,07	10,04	0,3504	56	16,99	10,40	5,60	17,4	29,27	20,57	23,65	23,9
6	50,0	285,0	25,04	11,38	0,3089	43	16,99	9,60	5,60	17,5	29,27	18,33	20,87	24,4
7	40,0	228,0	19,89	11,46	0,3069	35	16,99	8,80	5,60	17,5	29,27	18,33	20,36	24,5
8	30,0	171,0	15,11	11,32	0,3108	28	16,99	8,00	5,60	17,6	29,27	18,33	19,86	24,5
9	25,0	142,5	13,05	10,92	0,3220	25	16,99	7,60	5,60	17,6	29,27	18,33	19,61	24,5
10	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-
Chiller unable to run at requested load point.														

Single Screw Chiller



Service Data

Service Points Rated with AHRI(550/590) Condenser Relief

Point #	Superheat Δ °C	Subcooling Δ °C	Evaporator Fluid			Condenser Fluid		
			Temperature °C	Pressure kPa	Velocity m/s	Temperature °C	Pressure kPa	Velocity m/s
1	0,6	4,3	4,5	242,7	1,1	36,3	818,8	1,5
2	0,6	3,8	4,7	245,7	1,1	33,3	743,9	1,5
3	0,6	3,4	4,8	246,8	1,1	30,3	674,9	1,5
4	0,5	3,0	4,9	247,9	1,1	27,3	611,3	1,5
5	0,5	2,5	5,0	249,0	1,1	24,4	552,2	1,5
6	0,5	2,1	5,1	250,1	1,1	21,5	497,2	1,5
7	0,5	1,6	5,2	251,2	1,1	20,8	485,4	1,5
8	0,4	1,0	5,3	252,4	1,1	20,2	474,0	1,5
9	0,4	0,6	5,3	253,0	1,1	19,9	468,5	1,5
10	-	-	-	-	-	-	-	-

Chiller unable to run at requested load point.

Physical

Evaporator

Length	Diameter	Passes	Tube Material	Tube wall Thickness	Design Pressure (Waterside)
2.74 m	45.72 cm	2	Cu	0,635 mm	1 MPa

Condenser

Length	Diameter	Passes	Tube Material	Tube wall Thickness	Design Pressure (Waterside)
2.74 m	55.88 cm	2	Cu	0,635 mm	1 MPa

Electrical

Power	RLA	LRA	OutputAmps	Compressor Hertz	Power Connection	Displacement Power Factor	MOCP	MCA
380 V / 60 Hz	159 A	1249 A	187 A	57.7 Hz	Single Point	0.98	279 A	199 A
Motor Rated Current		Motor Rated Powerinput		Motor Rated Efficiency		Start Current		
210.6		122		94.81%		-		

Drive

Type	Model	Location	Harmonic Distortion	Enclosure Type
VFD-Air cooled	-	Unit Mounted	Standard	IP22

Sound

Sound Pressure dB(A)

63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Overall
364,	501,	715,	73,0	799,	758,	673,	637,	825,

Sound Pressure (dB) measured in accordance with ANSI/AHRI Standard 575-2008 ('A' weighted)

AHRI Certification



Certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating 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.

Notes

1. Above RLA and MOCP values are per Chiller.
2. For variable flow applications, the flow variation should not exceed 30% per minute.
3. The water flow range is for reference only; the actual minimum flow should consider the alarm value of flow switch.
4. Constant Temperature Selection.
5. The refrigerant charge on selection is for reference only. Please see the nameplate for detailed information.
6. The motor LRA and Start Current on selection have $\pm 20\%$ tolerance according to GB/T 755.
7. There is a ± 3 dB deviation between the actual sound value and the indicated value!