



FOCUSED ON APPLICATION HVAC



Unit information	
Chiller Model	CA2-290-4210
Width (mm)	2250
Length (mm)	9570
Height (mm)	2520
Shipping Weight (kg)	9140
Operating Weight (kg)	9260
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)		
Cooling Capacity (TR)	<b>290</b>	<b>1026kW</b>
Entering Water Temp (°C)	<b>12</b>	<b>53.60 F°</b>
Leaving Water Temp (°C)	<b>7</b>	<b>44.60 F°</b>
Water Flow (m3/h)	<b>177</b>	
Ambient Temperature (DB) (°C)	<b>35</b>	<b>95.00 F°</b>
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	<b>315.2</b>	
IPLV/NPLV.SI(W/W)	<b>4.68</b>	
COP (W/W)	<b>3.26</b>	

Compressor Information	
Type	<b>Semi-Hermetic Screw</b>
Quantity	<b>2</b>
Capacity Regulating Range	<b>12.5%-100%</b>
Oil Charging Volume(L)	<b>64</b>
Brand	<b>BITZER</b>
Circuit	<b>2</b>
Oil Model	<b>BSE170</b>

Water Side Heat Exchanger Information	
Fluid Type	<b>Fresh Water</b>
Concentration	/
Nozzle Type	<b>Victaulic Couping</b>
Water Volume(L)	<b>190</b>
Heat Exchanger Type	<b>Flooded Shell-and-Tube</b>
Fouling Factor ((m2.K)/kW)	<b>0.0180</b>
Nozzle Size(DN)	<b>200</b>
Water Pressure Drop (kPa)	<b>68</b>

Air Side Heat Exchanger Information	
Type	<b>Fin-Tube</b>
Fan Quantity	<b>16</b>
Air Flow(m3/h)	<b>392000</b>
Fan Power Input(kW)	<b>35.2</b>

Electrical Information	
Power Supply	<b>460V~3N~60Hz</b>
Rating Current (A)	<b>434</b>
Max. Starting Current (A)	<b>761</b>

- \*Garantía 2 años en partes y en compresores
- \*Resortes anti-vibratorios
- \*Refrigerante ecológico



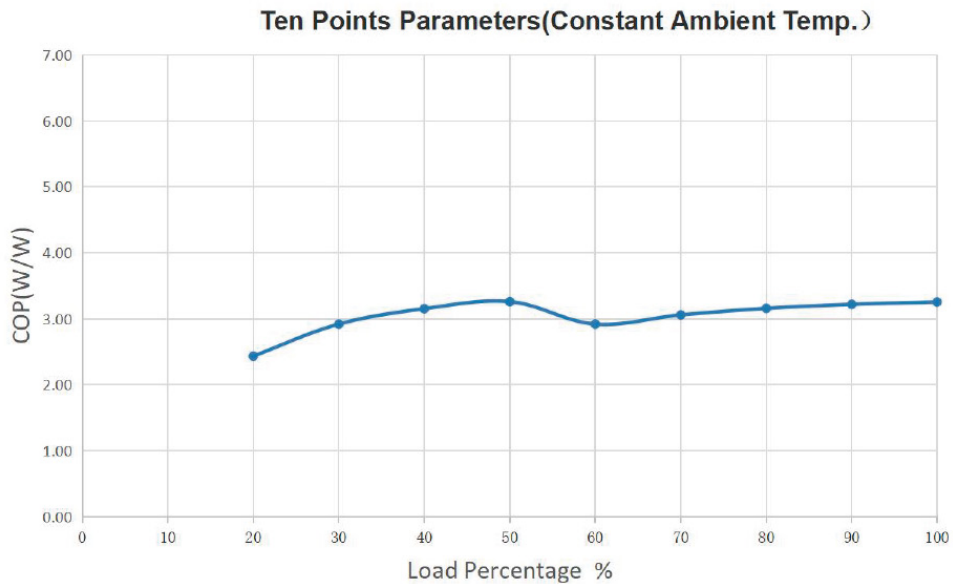
IPLV/NPLV Points													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	1026	315.2	0.97	3.26	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	770	194.4	0.80	3.96	68	27.00	80.6	/	/	10.70	51.26	7.00	44.6
50	513	97.5	0.60	5.26	68	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	257	49.6	0.61	5.17	68	13.00	55.4	/	/	8.20	46.76	7.00	44.6

IPLV.SI/NPLV.SI=0.01\*A+0.42\*B+0.45\*C+0.12\*D=4.683 w/w  
 A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

Ten Points Parameters (Constant Ambient Temp.)													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	1026	315.2	0.97	3.26	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	923	286.7	0.98	3.22	68	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	821	259.9	1.00	3.16	68	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	718	234.7	1.03	3.06	68	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	616	211	1.08	2.92	68	35.00	95.00	/	/	10.00	50	7.00	44.6
50	513	157.6	0.97	3.26	68	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	410	130	1.00	3.15	68	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	308	105.5	1.08	2.92	68	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	205	84.2	1.30	2.43	68	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	103	/	/	/	68	35.00	95.00	/	/	7.50	45.5	7.00	44.6

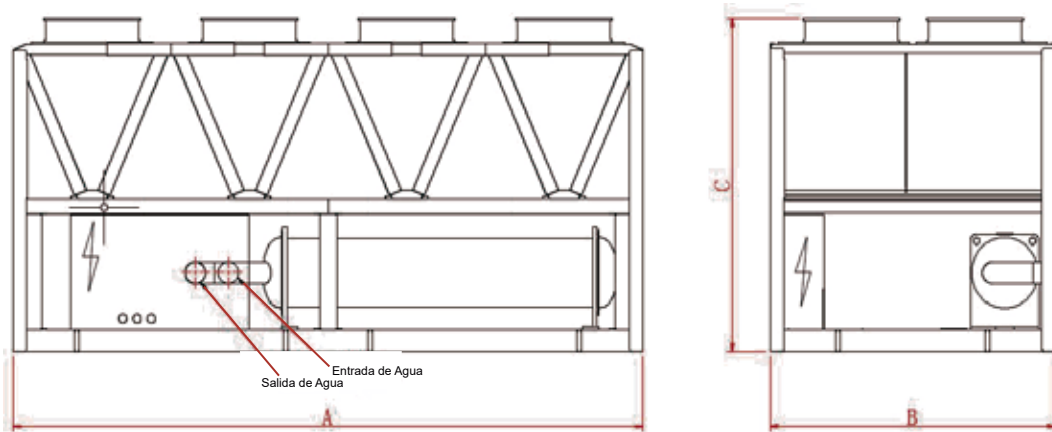
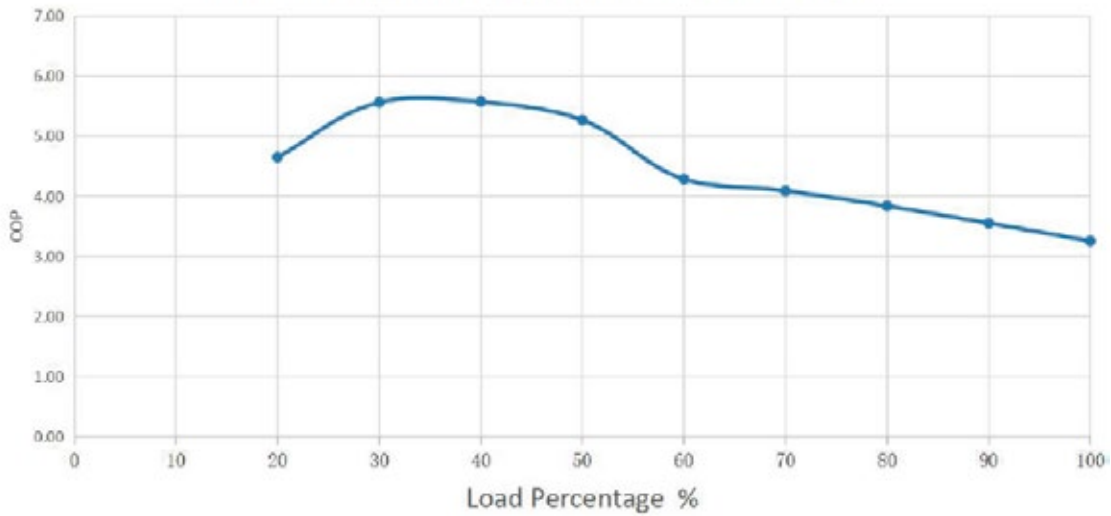
For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;  
 For double COMP chiller, the 10% load are out of running range, so the data is only for reference



Ten Points Parameters (Variable Ambient Temp)													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	1026	315.2	0.97	3.26	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	923	259.9	0.89	3.55	68	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	821	213.9	0.82	3.84	68	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	718	175.6	0.77	4.09	68	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	616	143.8	0.74	4.28	68	22.20	71.96	/	/	10.00	50	7.00	44.6
50	513	97.5	0.60	5.26	68	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	410	73.6	0.57	5.57	68	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	308	55.4	0.57	5.56	68	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	205	44.1	0.68	4.65	68	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	103	/	/	/	68	13.00	55.40	/	/	7.50	45.5	7.00	44.6

For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;  
 For double COMP chiller, the 10% load are out of running range, so the data is only for reference

Ten Points Parameters(Variable Ambient Temp.)



Dimension(mm)	A	B	C
	9570	2250	2520

NOTE:The outline drawing is only for reference.

