



FOCUSED ON APPLICATION HVAC



Unit information	
Chiller Model	CA2-380-4210
Width (mm)	2250
Length (mm)	11970
Height (mm)	2520
Shipping Weight (kg)	11040
Operating Weight (kg)	11200
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)		
Cooling Capacity (TR)	380	1335 kW
Entering Water Temp (°C)	12	53.60 F°
Leaving Water Temp (°C)	7	44.60 F°
Water Flow (m3/h)	230	
Ambient Temperature (DB) (°C)	35	95.00 F°
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	402.2	
IPLV/NPLV.SI(W/W)	4.78	
COP (W/W)	3.32	

Compressor Information	
Type	Semi-Hermetic Screw
Quantity	2
Capacity Regulating Range	12.5%-100%
Oil Charging Volume(L)	68
Brand	BITZER
Circuit	2
Oil Model	BSE170

Water Side Heat Exchanger Information	
Fluid Type	Fresh Water
Concentration	/
Nozzle Type	Victaulic Couping
Water Volume(L)	256
Heat Exchanger Type	Flooded Shell-and-Tube
Fouling Factor ((m2.K)/kW)	0.0180
Nozzle Size(DN)	200
Water Pressure Drop (kPa)	73

Air Side Heat Exchanger Information	
Type	Fin-Tube
Fan Quantity	20
Air Flow(m3/h)	490000
Fan Power Input(kW)	44

Electrical Information	
Power Supply	460V~3N~60Hz
Rating Current (A)	566
Max. Starting Current (A)	1028

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



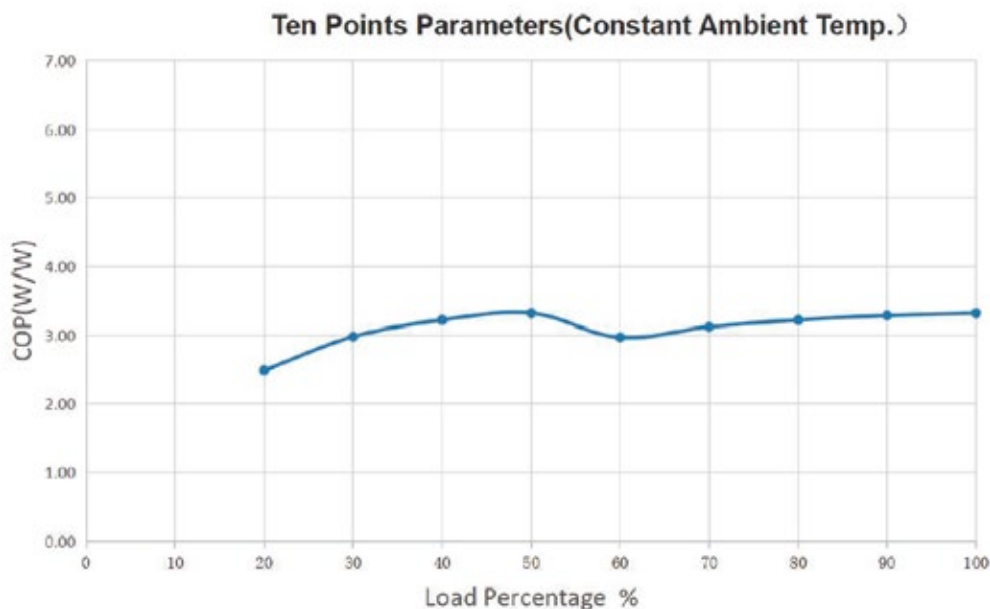
IPLV/NPLV Points													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	1335	402.2	0.95	3.32	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	1001	248.4	0.78	4.03	73	27.00	80.6	/	/	10.80	51.44	7.00	44.6
50	668	124.4	0.59	5.37	73	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	334	63.3	0.60	5.27	73	13.00	55.4	/	/	8.30	46.94	7.00	44.6

IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.776 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	1335	402.2	0.95	3.32	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1202	365.9	0.96	3.29	73	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	1068	331.7	0.98	3.22	73	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	935	299.5	1.01	3.12	73	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	801	269.3	1.06	2.97	73	35.00	95.00	/	/	10.00	50	7.00	44.6
50	668	201.1	0.95	3.32	73	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	534	165.8	0.98	3.22	73	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	401	134.6	1.06	2.98	73	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	267	107.5	1.27	2.48	73	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	134	/	/	/	73	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

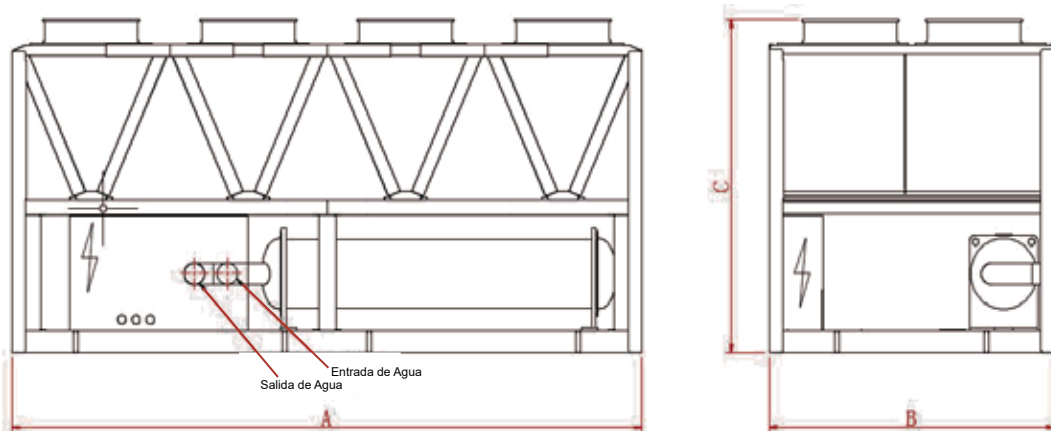
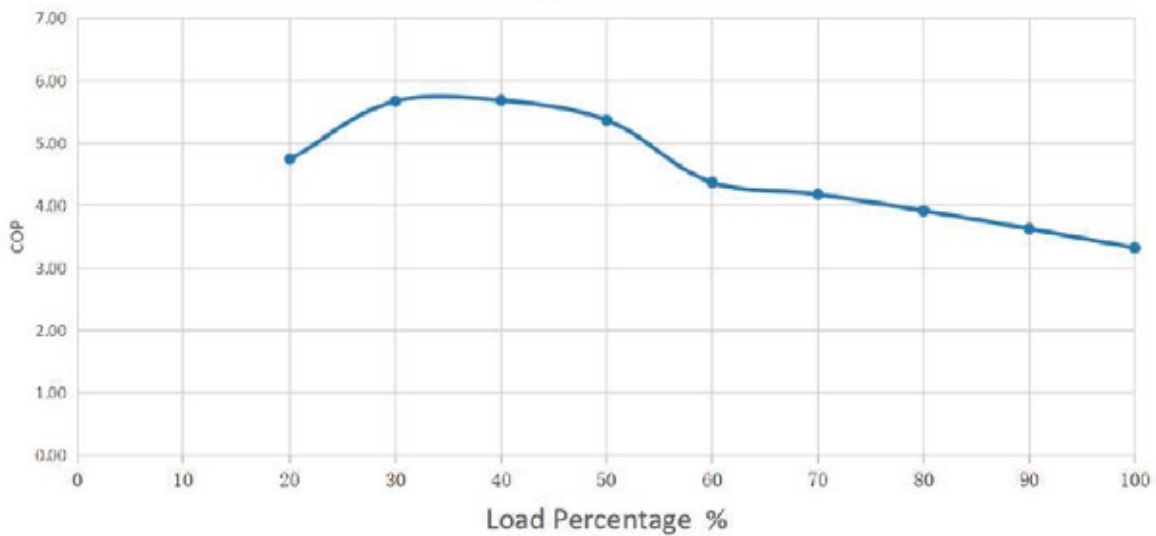


Ten Points Parameters (Variable Ambient Temp)

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	1335	402.2	0.95	3.32	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1202	331.7	0.87	3.62	73	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	1068	273.0	0.81	3.91	73	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	935	224.1	0.76	4.17	73	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	801	183.5	0.72	4.37	73	22.20	71.96	/	/	10.00	50	7.00	44.6
50	668	124.4	0.59	5.37	73	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	534	93.9	0.55	5.69	73	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	401	70.7	0.56	5.67	73	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	267	56.3	0.67	4.74	73	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	134	/	/	/	73	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
	11970	2250	2520

NOTE:The outline drawing is only for reference.

