



FOCUSED ON APPLICATION HVAC



Unit information	
Chiller Model	CA2-300-4210
Width (mm)	2250
Length (mm)	9570
Height (mm)	2520
Shipping Weight (kg)	9260
Operating Weight (kg)	9390
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)		
Cooling Capacity (TR)	300	1052kW
Entering Water Temp (°C)	12	53.60 F°
Leaving Water Temp (°C)	7	44.60 F°
Water Flow (m3/h)	181	
Ambient Temperature (DB) (°C)	35	95.00 F°
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	328.5	
IPLV/NPLV.SI(W/W)	4.57	
COP (W/W)	3.20	

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

Water Side Heat Exchanger Information	
Fluid Type	Fresh Water
Concentration	/
Nozzle Type	Victaulic Couping
Water Volume(L)	190
Heat Exchanger Type	Flooded Shell-and-Tube
Fouling Factor ((m2.K)/kW)	0.0180
Nozzle Size(DN)	200
Water Pressure Drop (kPa)	71

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

Electrical Information	
Power Supply	460V~3N~60Hz
Rating Current (A)	474
Max. Starting Current (A)	921

- *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	1052	328.5	0.99	3.2	71	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	789	203.4	0.81	3.88	71	27.00	80.6	/	/	10.70	51.26	7.00	44.6
50	526	102.2	0.81	5.15	71	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	263	53.8	0.65	4.89	71	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%;

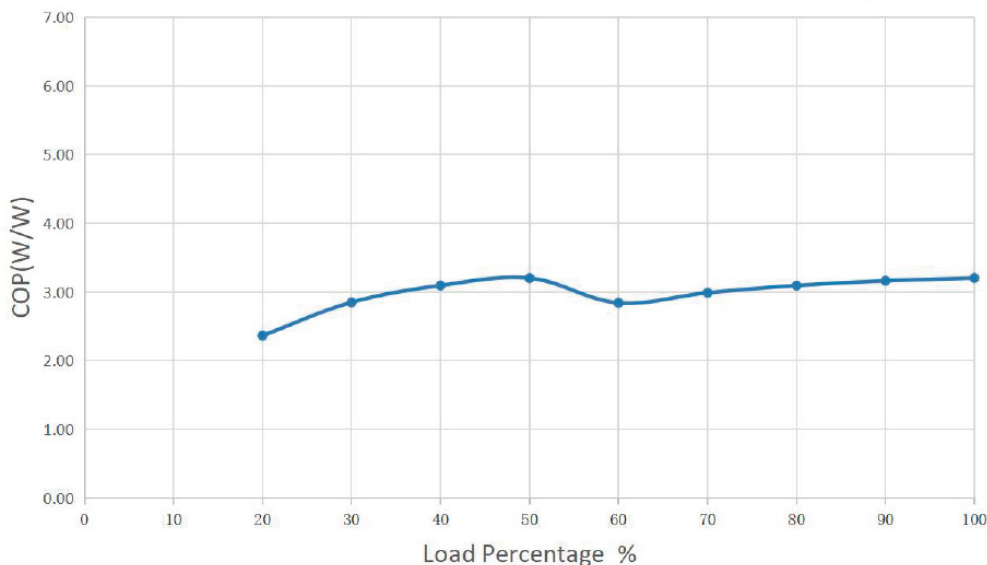
Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

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	1052	328.5	0.99	3.2	71	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	947	299.6	1.00	3.16	71	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	842	272.3	1.02	3.09	71	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	736	246.4	1.06	2.99	71	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	631	222	1.11	2.84	71	35.00	95.00	/	/	10.00	50	7.00	44.6
50	526	164.2	0.99	3.20	71	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	421	136.1	1.02	3.09	71	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	316	111	1.11	2.85	71	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	210	88.9	1.34	2.36	71	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	105	/	/	/	71	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(Constant Ambient Temp.)

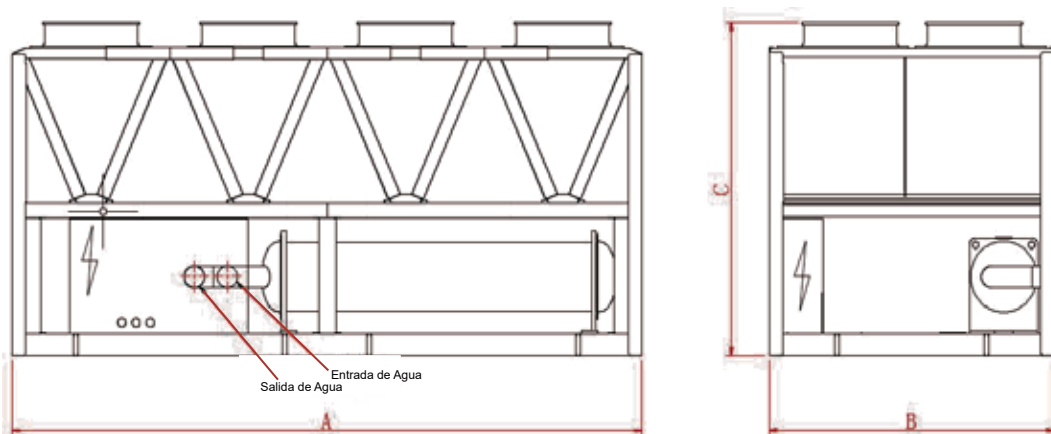
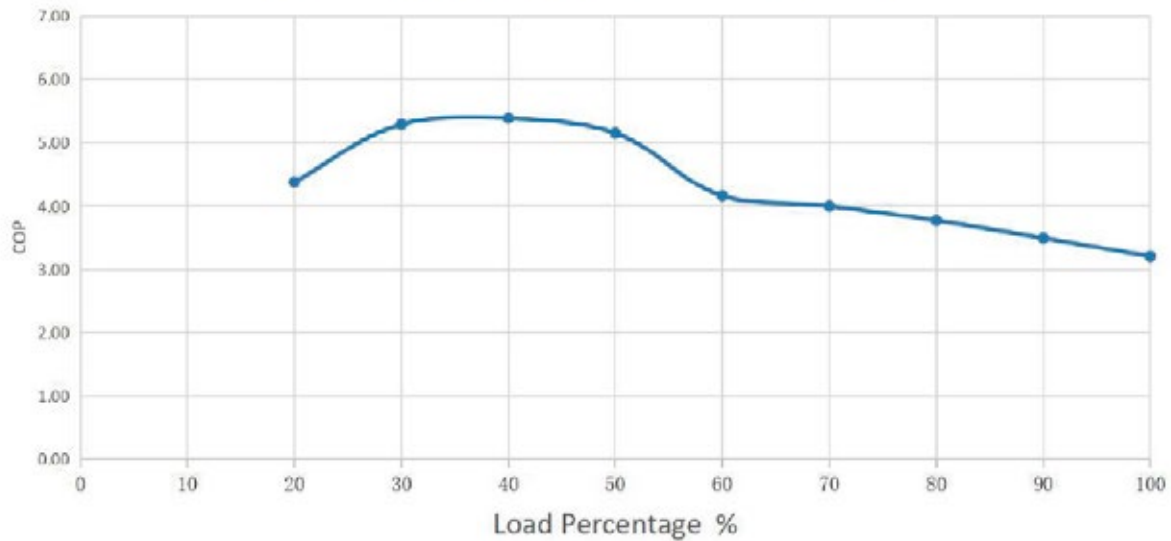


Ten Points Parameters (Variable Ambient Temp)

Load %	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT C°	DBT F°	WBT C°	WBT F°	EEWT C°	EEWT F°	ELWT C°	ELWT F°
	Kw	Kw	KW/TON	W/W	kpA								
100	1052	328.5	0.99	3.2	71	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	947	217.0	0.90	3.49	71	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	842	223.4	0.84	3.77	71	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	736	184.0	0.79	4.00	71	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	631	151.6	0.76	4.16	71	22.20	71.96	/	/	10.00	50	7.00	44.6
50	526	102.2	0.61	5.15	71	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	421	78.2	0.59	5.38	71	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	316	59.8	0.60	5.28	71	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	210	48	0.72	4.38	71	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	105	/	/	/	71	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.

