



FOCUSED ON APPLICATION HVAC



Unit information	
Chiller Model	CA2-485-4210
Width (mm)	2250
Length (mm)	11970
Height (mm)	2520
Shipping Weight (kg)	12040
Operating Weight (kg)	12240
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)		
Cooling Capacity (TR)	485	1715 kW
Entering Water Temp (°C)	12	53.60 F°
Leaving Water Temp (°C)	7	44.60 F°
Water Flow (m3/h)	295	
Ambient Temperature (DB) (°C)	35	95.00 F°
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	510.8	
IPLV/NPLV.SI(W/W)	4.83	
COP (W/W)	3.36	

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)	304
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)	450000
Fan Power Input(kW)	44

Electrical Information	
Power Supply	460V~3N~60Hz
Rating Current (A)	711
Max. Starting Current (A)	1260

- *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	1715	510.8	0.94	3.36	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	1286	315.2	0.77	4.08	73	27.00	80.6	/	/	10.80	51.44	7.00	44.6
50	858	158.0	0.58	5.43	73	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	429	80.3	0.59	5.34	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=4.832 w/w

A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

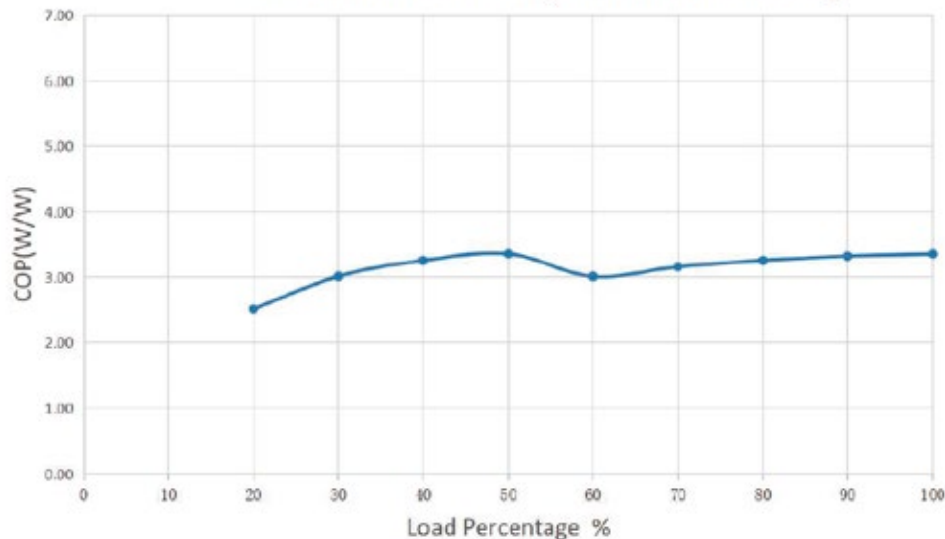
Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

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	1715	510.8	0.94	3.36	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1544	434.6	0.95	3.32	73	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	1372	421.2	0.97	3.26	73	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	1201	380.3	1.00	3.16	73	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	1029	341.9	1.05	3.01	73	35.00	95.00	/	/	10.00	50	7.00	44.6
50	858	255.3	0.94	3.36	73	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	686	210.6	0.97	3.26	73	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	515	171	1.05	3.01	73	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	343	136.5	1.26	2.51	73	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	172	/	/	/	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

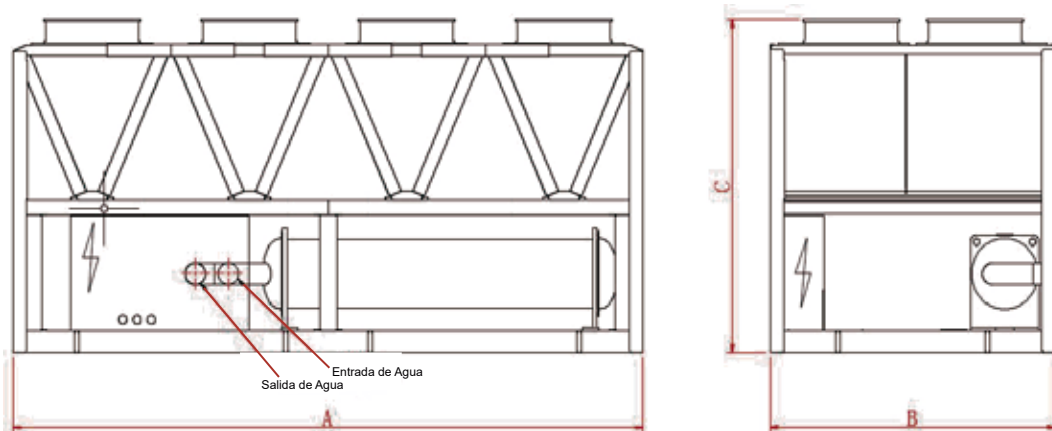
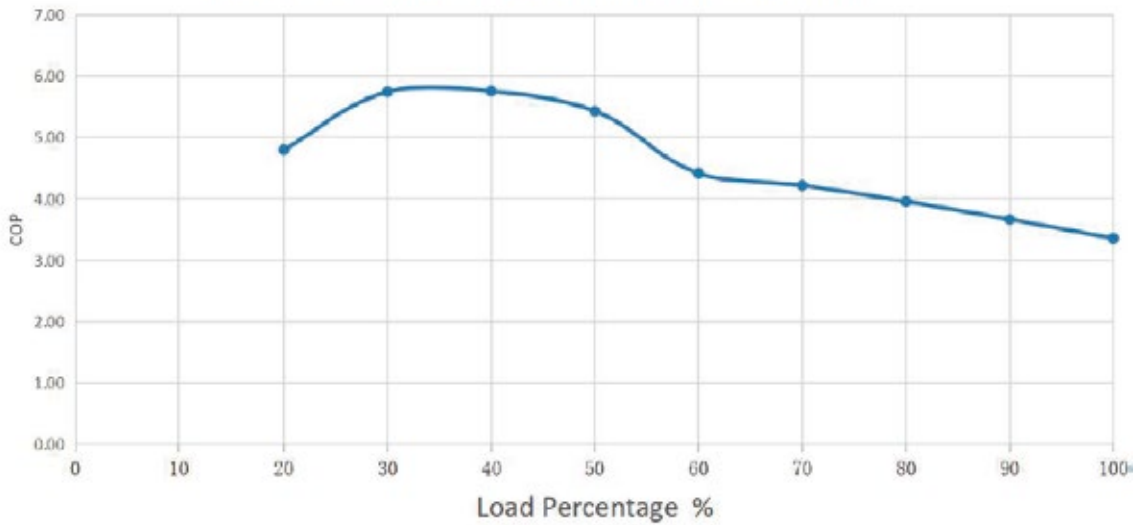
Ten Points Parameters (Constant Ambient Temp.)



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	1715	510.8	0.94	3.36	73	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1544	421.2	0.86	3.67	73	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	1372	346.7	0.80	3.96	73	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	1201	284.6	0.75	4.22	73	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	1029	233	0.71	4.42	73	22.20	71.96	/	/	10.00	50	7.00	44.6
50	858	158	0.58	5.43	73	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	686	119.2	0.55	5.76	73	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	515	89.7	0.55	5.74	73	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	343	71.5	0.66	4.80	73	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	172	/	/	/	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.

