



FOCUSED ON APPLICATION HVAC



Unit information

Chiller Model	CA2-430-4210
Width (mm)	2250
Length (mm)	11970
Height (mm)	2520
Shipping Weight (kg)	11280
Operating Weight (kg)	11460
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)

Cooling Capacity (TR)	430	1511kW
Entering Water Temp (°C)	12	53.60 F°
Leaving Water Temp (°C)	7	44.60 F°
Water Flow (m3/h)	260	
Ambient Temperature (DB) (°C)	35	95.00 F°
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	458.3	
IPLV/NPLV.SI(W/W)	4.75	
COP (W/W)	3.30	

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)	280
Heat Exchanger Type	Flooded Shell-and-Tube
Fouling Factor ((m2.K)/kW)	0.0180
Nozzle Size(DN)	200
Water Pressure Drop (kPa)	72

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)	647
Max. Starting Current (A)	1221

- *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	1511	458.3	0.96	3.30	72	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	1133	282.5	0.79	4.01	72	27.00	80.6	/	/	10.70	51.26	7.00	44.6
50	756	141.7	0.59	5.34	72	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	378	72.1	0.60	5.24	72	13.00	55.4	/	/	8.20	46.76	7.00	44.6

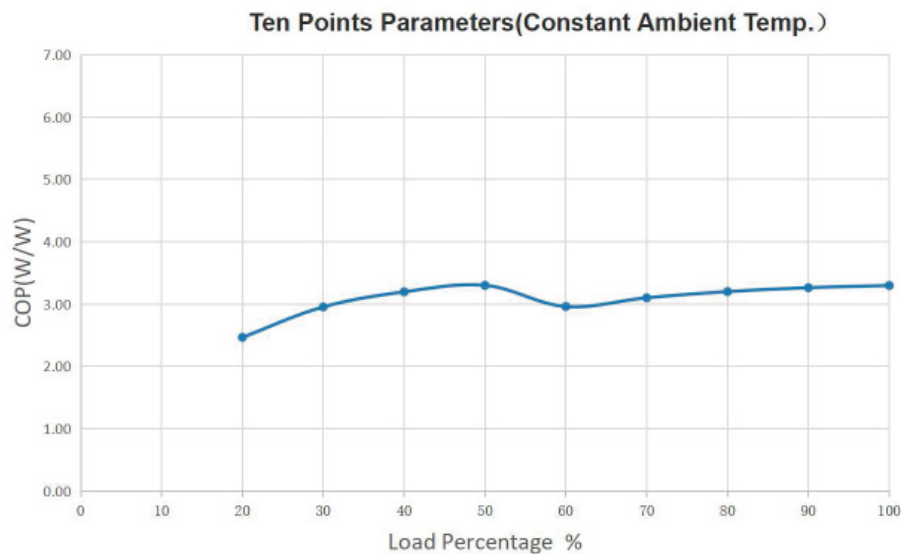
IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.745 w/w
 A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

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	1511	458.3	0.96	3.3	72	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1360	416.9	0.97	3.26	72	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	1209	377.9	0.99	3.20	72	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	1058	341.3	1.02	3.10	72	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	907	306.8	1.07	2.96	72	35.00	95.00	/	/	10.00	50	7.00	44.6
50	756	229.1	0.96	3.30	72	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	604	189	0.99	3.20	72	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	453	153.4	1.07	2.95	72	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	302	122.5	1.28	2.47	72	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	151	/	/	/	72	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

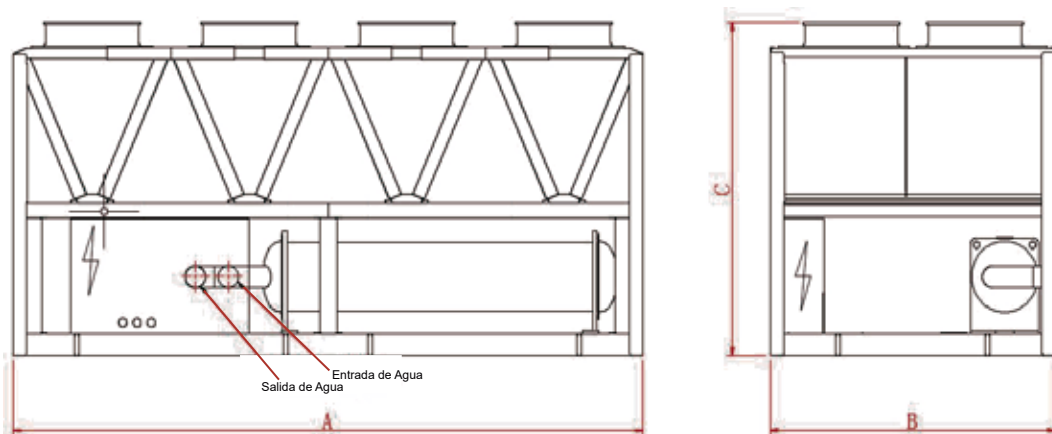
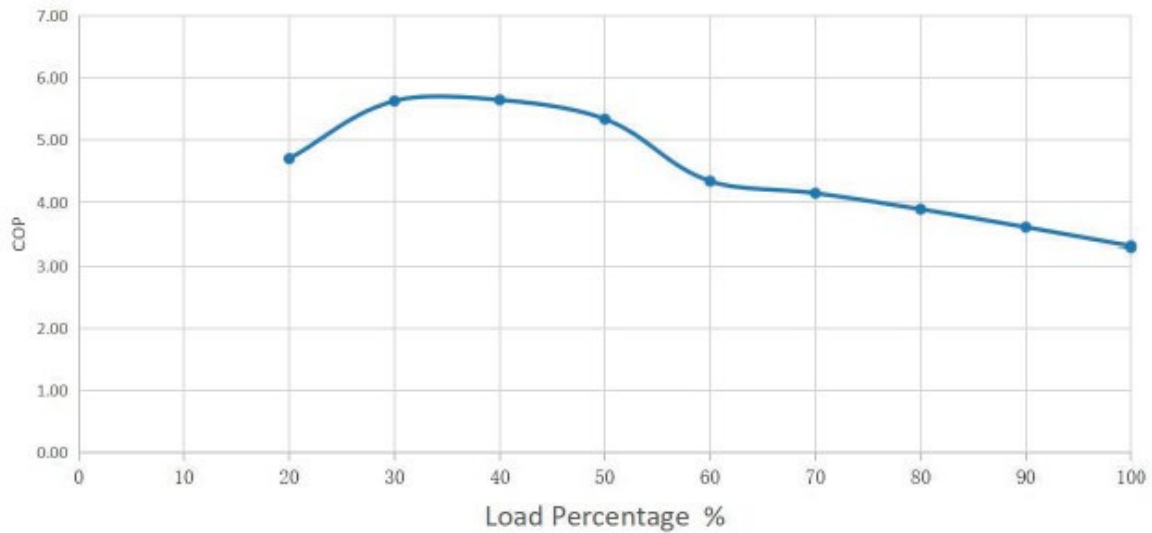


Ten Points Parameters (Variable Ambient Temp)

Load %	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT C°	DBT F°	WBT C°	WBT F°	EEWT C°	EEWT F°	ELWT C°	ELWT F°
	Kw	Kw	KW/TON	W/W	kpA								
100	1511	458.3	0.96	3.30	72	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	1360	378.0	0.88	3.60	72	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	1209	311.1	0.81	3.89	72	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	1058	255.3	0.76	4.14	72	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	907	209.1	0.73	4.34	72	22.20	71.96	/	/	10.00	50	7.00	44.6
50	756	141.7	0.59	5.34	72	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	604	107	0.56	5.64	72	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	453	80.5	0.56	5.63	72	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	302	64.2	0.67	4.70	72	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	151	/	/	/	72	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.

