



FOCUSED ON APPLICATION HVAC



Unit information

Chiller Model	CA2-165-4210
Width (mm)	2250
Length (mm)	4790
Height (mm)	2520
Shipping Weight (kg)	5340
Operating Weight (kg)	5420
Capacity Control	Stepless Control
Starting Control	Y-Δ
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)

Cooling Capacity (TR)	165	
Entering Water Temp (°C)	12	53.60 F°
Leaving Water Temp (°C)	7	44.60 F°
Water Flow (m3/h)	101	
Ambient Temperature (DB) (°C)	35	95.00 F°
Ambient Temperature(WB) (°C)	/	
Input Power (kW)	183.8	
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)	48
Brand	BITZER
Circuit	2
Oil Model	BSE170

Water Side Heat Exchanger Information

Fluid Type	Fresh Water
Concentration	/
Nozzle Type	Victaulic Couping
Water Volume(L)	76
Heat Exchanger Type	Flooded Shell-and-Tube
Fouling Factor ((m2.K)/kW)	0.0180
Nozzle Size(DN)	150
Water Pressure Drop (kPa)	76

Air Side Heat Exchanger Information

Type	Fin-Tube
Fan Quantity	8
Air Flow(m3/h)	196000
Fan Power Input(kW)	17.6

Electrical Information

Power Supply	460V~3N~60Hz
Rating Current (A)	272
Max. Starting Current (A)	522

- *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	579	178.3	0.97	3.25	74	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	434	109.9	0.80	3.95	74	27.00	80.6	/	/	10.70	51.26	7.00	44.6
50	290	66.4	0.72	4.37	74	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	145	41.5	0.90	3.49	74	13.00	55.4	/	/	8.20	46.76	7.00	44.6

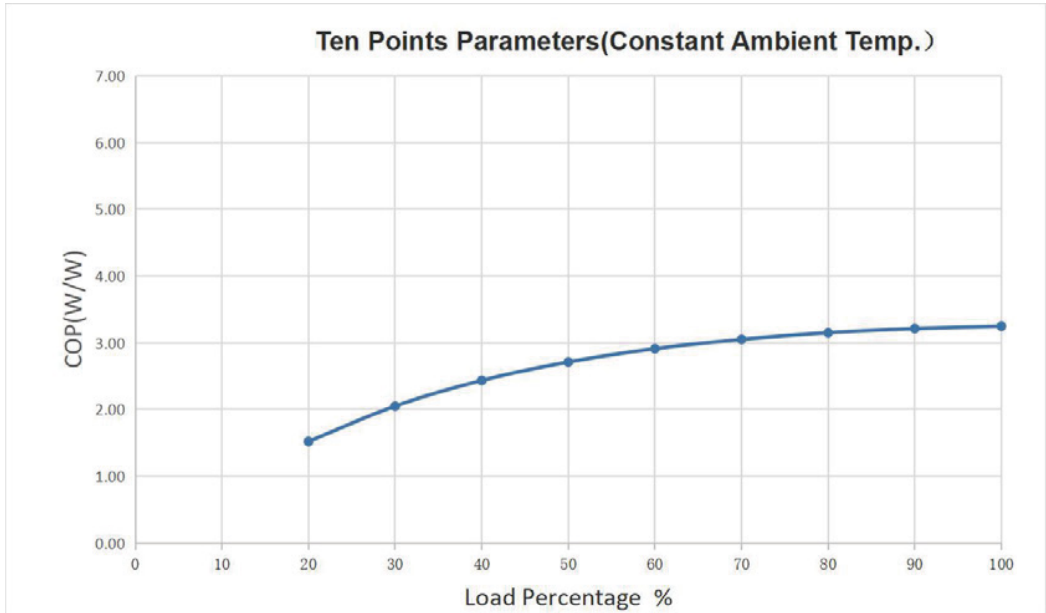
$IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.081$ w/w

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	579	178.3	0.97	3.25	74	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	521	162.2	0.98	3.21	74	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	463	147.0	1.00	3.15	74	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	405	132.8	1.03	3.05	74	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	347	119.4	1.08	2.91	74	35.00	95.00	/	/	10.00	50	7.00	44.6
50	290	106.9	1.16	2.71	74	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	232	95.3	1.30	2.43	74	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	174	84.9	1.54	2.05	74	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	116	76.3	2.08	1.52	74	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	58	/	/	/	74	35.00	95.00	/	/	7.50	45.5	7.00	44.6

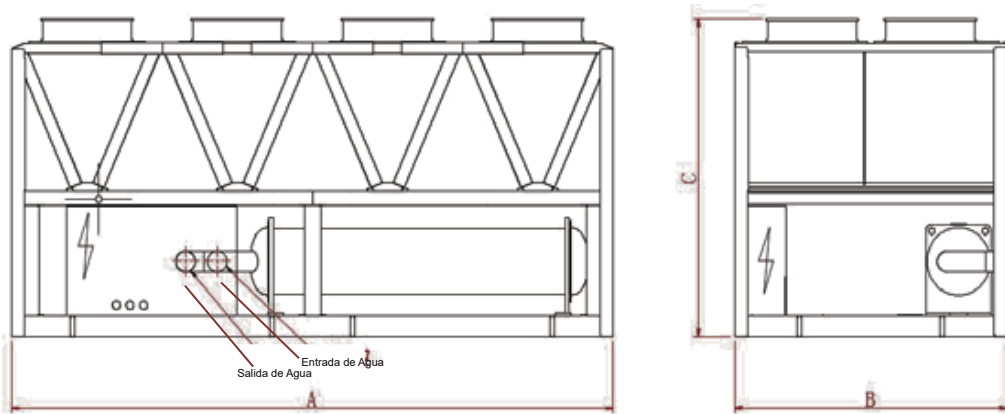
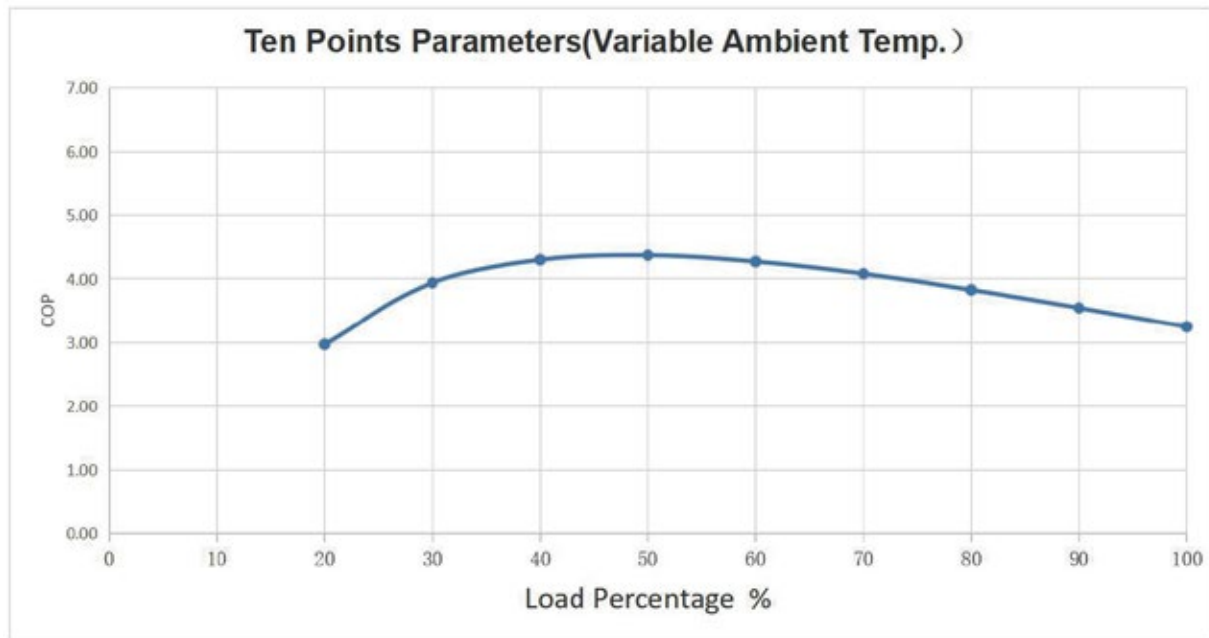
For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;For double COMP chiller, the 10% load are out of running range, so the data is only for reference



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	579	178.3	0.97	3.25	74	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	521	147.0	0.89	3.54	74	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	463	121.0	.82	3.83	74	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	405	99.3	0.77	4.08	74	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	347	81.3	0.74	4.27	74	22.20	71.96	/	/	10.00	50	7.00	44.6
50	290	66.4	0.72	4.37	74	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	232	54	0.73	4.30	74	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	174	44.2	0.80	3.94	74	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	116	39.1	1.06	2.97	74	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	58	/	/	/	74	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



Dimension(mm)	A	B	C
	4790	2250	2520

NOTE:The outline drawing is only for reference.

