



FOCUSED ON APPLICATION HVAC



Unit information		
Chiller Model	CA2-225-4210	
Width:	2,250.00 mm	88.58 in
Length:	7,180.00 mm	282.68 in
Height:	2,460.00 mm	96.85 in
Shipping Weight:	8,170.00 kg	18,011.77 lb
Operating Weight:	8,280.00 kg	18,254.27 lb
Capacity Control	Slide Valve	
Refrigerant:	R134a	
Refrigerant Charge (Ckt1 / Ckt2):	165.00 kg	165.00 Kg
Starting Control:	Y-Δ	

Performance Information (Cooling Conditions)		
** Cooling Capacity:	795.00 kW	226.26 TR
** Entering Water Temp:	12.00 °C	53.60 °F
** Leaving Water Temp:	7.00 °C	44.60 °F
Ambient Temperature (DB):	35.00 °C	95.00 °F
Design Water Flow	136.70 m³/h	601.87 GPM
Input Power (Electrical):	241.30 kW	
IPLV/NPLV:	4.51 (W/W)	15.40 (Btu/W.h)
COP:	3.29 (W/W)	11.24 EER (Btu/W.h)

Compressor Information		
Brand:	Bitzer	
Model:	CSH8573-140Y-40D	
Compressor Type:	Semi-Hermetic Screw	
Maximum Compressor Current:	209.00 A	
Quantity:	2 Piece/s	
Oil Type (per compressor):	BSE170	774.30 oz
Capacity Regulating Range:	12.5% - 100%	

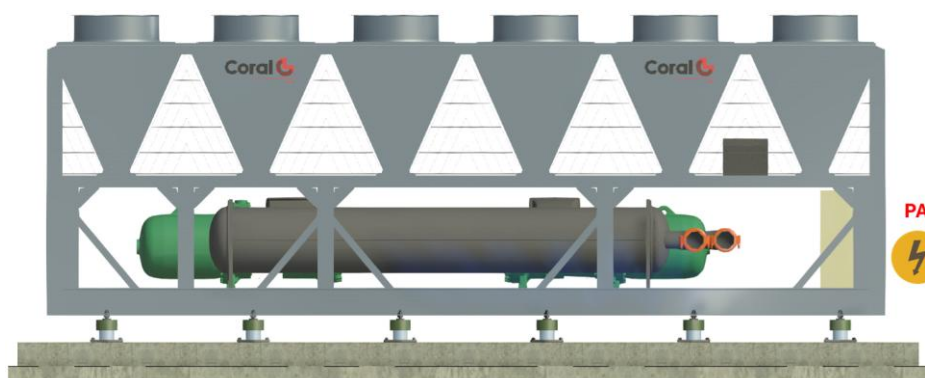
Water-Side Heat Exchanger Information		
Fluid Type:	Water	
Nozzle Type:	Victaulic Coupling	
Water Volume:	157.00 L	41.48 gal
Heat Exchanger Type:	Flooded Shell-and-Tube	
Fouling Factor:	0.018 m².K/kW	0.1021 ft².F/Btu
Nozzle Size(DN):	150.00 mm	6.00 in
Water Pressure Drop:	71.00 kPa	23.75 ft CA
Design Pressure of Water Side (Max):	1.00 MPa	145.04 psi

Air-Side Heat Exchanger Information		
Type:	Fin-and-Tube	
Fan Quantity:	12 Units	
Air Flow	294,000.00 m³/h	173,041.64 CFM
Fan Power Input	2.20 kW/unit	26.40 kW Total

Electrical Connections		
Amperage	Electrical Circuit 1	Electrical Circuit 2
Maximum Operating Current (MCA):	241.00 A	241.00 A
Maximum Overcurrent Protection (MOCP):	350.00 A	350.00 A

Electrical Information		
Power Supply:	460V / 3 Ph / 60 Hz	
Voltage Range:	440 V	480 V
Rating Current (A):	350.00 A	
Max. Starting Current (A):	582.00 A	
Maximum Operating Current (A)	482.00 A	

Electrical Panel	Electrical Circuit 1	Electrical Circuit 2
Electrical Connection Point:	Panel E-1	Panel E-1



- * Garantía de 2 años en partes y compresores
- * Resortes antivibratorios

- * Refrigerante HFC, libre de cloro, ODP = 0
- * Conexiones de tubería ranurada tipo Victaulic



IPLV/NPLV Points (SI)

Load %	Cooling Capacity	Input Power	Cooling	Cooling COP	Evap. WPD	DBT	EEWT	ELWT
100	795.00 kW	241.30 kW	1.0672 kW/TR	3.29 W/W	71.00 kPa	35.00 °C	12.00 °C	7.00 °C
75	596.00 kW	147.20 kW	0.8684 kW/TR	4.05 W/W	71.00 kPa	27.00 °C	10.75 °C	7.00 °C
50	398.00 kW	84.30 kW	0.7447 kW/TR	4.72 W/W	71.00 kPa	19.00 °C	9.50 °C	7.00 °C
25	199.00 kW	36.70 kW	0.6484 kW/TR	5.42 W/W	71.00 kPa	13.00 °C	8.25 °C	7.00 °C

IPLV /NPLV = $0.01 \cdot A + 0.42 \cdot B + 0.45 \cdot C + 0.12 \cdot D = 4.51$ (W/W)

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

Performance calculations are in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

IPLV/NPLV Points (IP)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	EEWT	ELWT
100	226.26 TR	241.30 kW	1.0672 kW/TR	11.25 (Btu/W.h)	23.75 ft CA	95.00 °F	53.60 °F	44.60 °F
75	169.62 TR	147.20 kW	0.8684 kW/TR	13.83 (Btu/W.h)	23.75 ft CA	80.60 °F	51.35 °F	44.60 °F
50	113.27 TR	84.30 kW	0.7447 kW/TR	16.12 (Btu/W.h)	23.75 ft CA	66.20 °F	49.10 °F	44.60 °F
25	56.64 TR	36.70 kW	0.6484 kW/TR	18.52 (Btu/W.h)	23.75 ft CA	55.40 °F	46.85 °F	44.60 °F

IPLV /NPLV = $0.01 \cdot A + 0.42 \cdot B + 0.45 \cdot C + 0.12 \cdot D = 15.40$ EER (Btu/w)

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

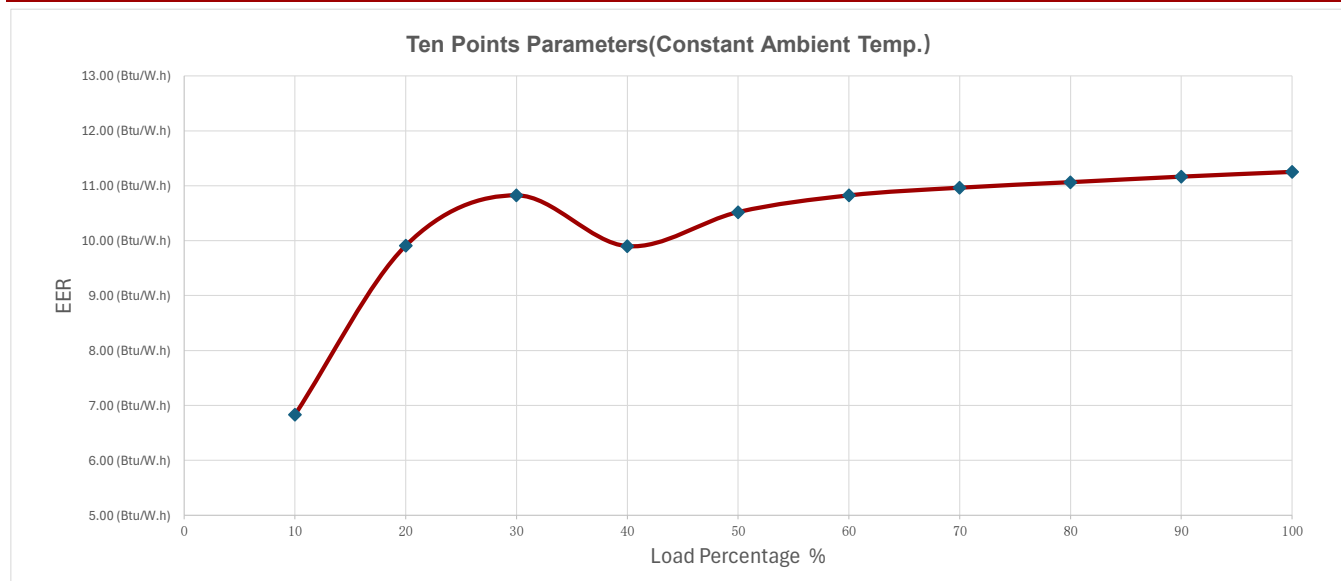
Performance calculations are in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

Ten Points Parameters(Constant Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	226.26 TR	241.30 kW	1.0672 kW/TR	11.25 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
90	203.77 TR	219.00 kW	1.0754 kW/TR	11.17 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
80	181.00 TR	196.30 kW	1.0852 kW/TR	11.06 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
70	158.52 TR	173.50 kW	1.0952 kW/TR	10.96 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
60	135.75 TR	150.50 kW	1.1093 kW/TR	10.82 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
50	113.27 TR	129.20 kW	1.1414 kW/TR	10.52 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
40	90.50 TR	109.70 kW	1.2129 kW/TR	9.90 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
30	68.02 TR	75.40 kW	1.1092 kW/TR	10.83 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
20	45.25 TR	54.80 kW	1.0877 kW/TR	9.91 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
10	22.77 TR	40.00 kW	1.5780 kW/TR	6.83 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C

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

Chiller Model: CA2-225-4210

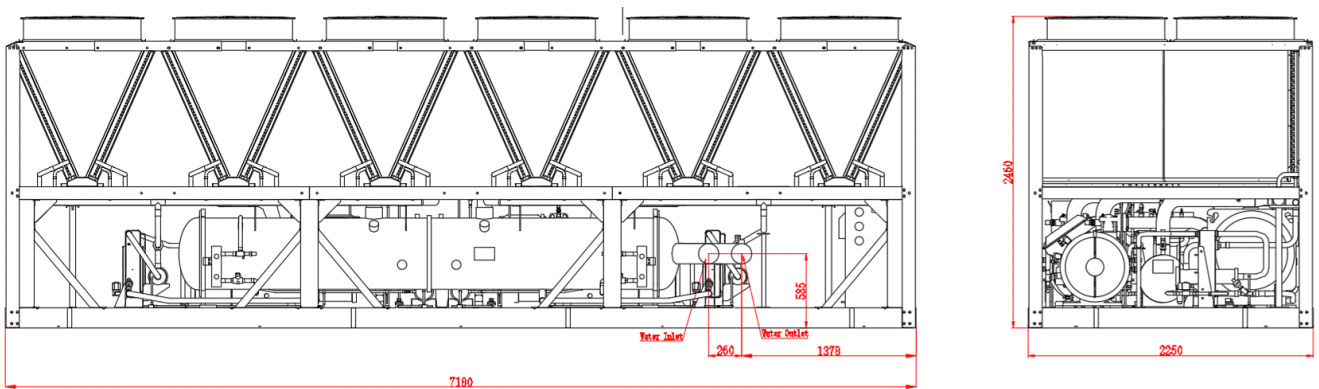
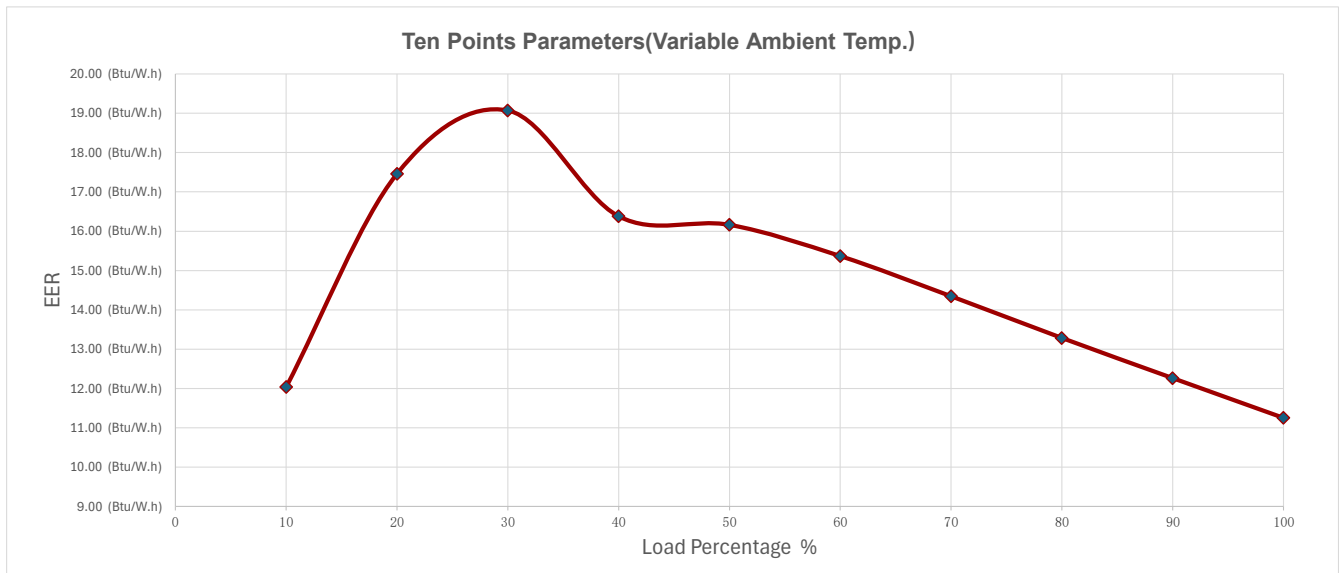


Ten Points Parameters(Variable Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	226.26 TR	241.30 kW	1.0672 kW/TR	11.25 (Btu/W.h)	23.75 ft CA	35.00 °C	601.87 GPM	7.00 °C
90	203.77 TR	199.40 kW	0.9792 kW/TR	12.26 (Btu/W.h)	23.75 ft CA	31.80 °C	601.87 GPM	7.00 °C
80	181.00 TR	163.50 kW	0.9039 kW/TR	13.28 (Btu/W.h)	23.75 ft CA	28.60 °C	601.87 GPM	7.00 °C
70	158.52 TR	132.60 kW	0.8370 kW/TR	14.35 (Btu/W.h)	23.75 ft CA	25.40 °C	601.87 GPM	7.00 °C
60	135.75 TR	106.00 kW	0.7813 kW/TR	15.37 (Btu/W.h)	23.75 ft CA	22.20 °C	601.87 GPM	7.00 °C
50	113.27 TR	84.10 kW	0.7430 kW/TR	16.16 (Btu/W.h)	23.75 ft CA	19.00 °C	601.87 GPM	7.00 °C
40	90.50 TR	66.30 kW	0.7331 kW/TR	16.38 (Btu/W.h)	23.75 ft CA	15.80 °C	601.87 GPM	7.00 °C
30	68.02 TR	42.80 kW	0.6296 kW/TR	19.07 (Btu/W.h)	23.75 ft CA	13.00 °C	601.87 GPM	7.00 °C
20	45.25 TR	31.10 kW	0.6877 kW/TR	17.46 (Btu/W.h)	23.75 ft CA	13.00 °C	601.87 GPM	7.00 °C
10	22.77 TR	22.70 kW	0.9977 kW/TR	12.04 (Btu/W.h)	23.75 ft CA	13.00 °C	601.87 GPM	7.00 °C

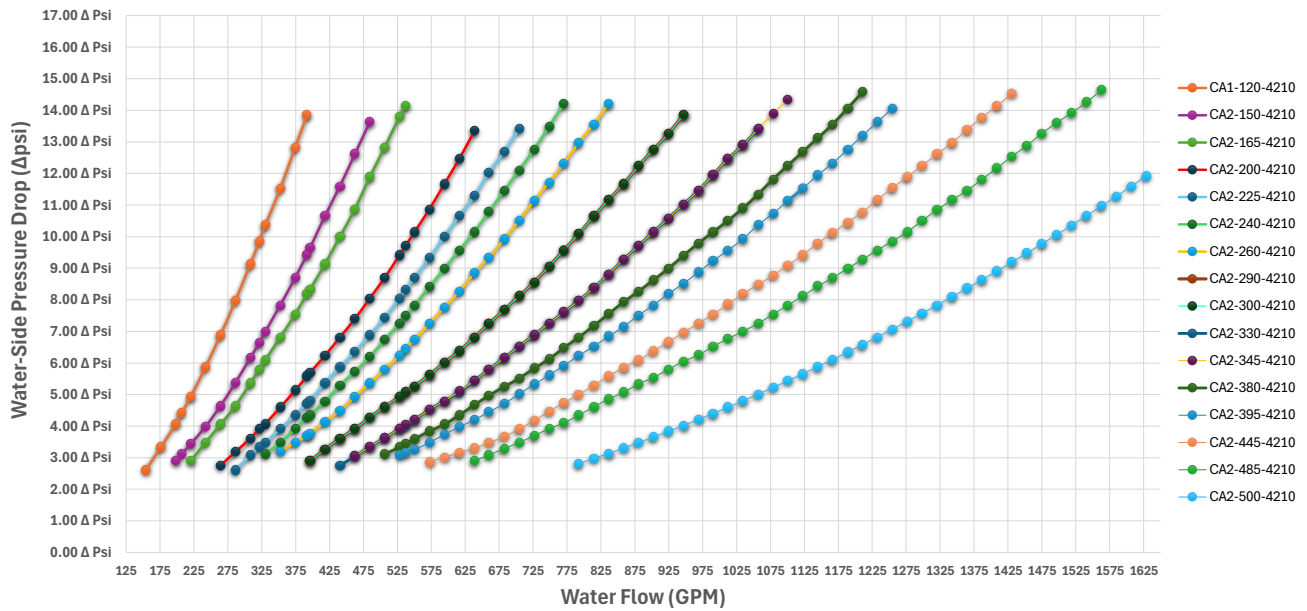
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Dimension Model: CA2-225-4210	Length	Width	Height
	7,180.00 mm	2,250.00 mm	2,460.00 mm

Water Pressure Drop Curve IP (Chiller Coral)



CA2-225-4210

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Chilled Water Flow:	136.70 m³/h	601.87 GPM
Width:	2,250.00 mm	88.58 in
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