

Coral

FOCUSED ON APPLICATION HVAC



Unit information		
Chiller Model:	CA2-200-4210	
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:	7,260.00 kg	16,005.56 lb
Operating Weight:	7,360.00 kg	16,226.02 lb
Capacity Control:	Slide Valve	
Refrigerant:	R134a	
Refrigerant Charge (Ckt1 / Ckt2):	150.00 kg	150.00 Kg
Starting Control:	Y-Δ	

Performance Information (Cooling Conditions)		
** Cooling Capacity:	709.00 kW	201.78 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:	121.90 m³/h	536.71 GPM
Input Power (Electrical):	212.60 kW	
IPLV/NPLV:	4.50 (W/W)	15.36 (Btu/W.h)
COP:	3.33 (W/W)	11.37 EER (Btu/W.h)

Water-Side Heat Exchanger Information		
Fluid Type:	Water	
Nozzle Type:	Victaulic Coupling	
Water Volume:	148.00 L	39.10 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:	68.00 kPa	22.75 ft CA
Design Pressure of Water Side (Max):	1.00 MPa	145.04 psi

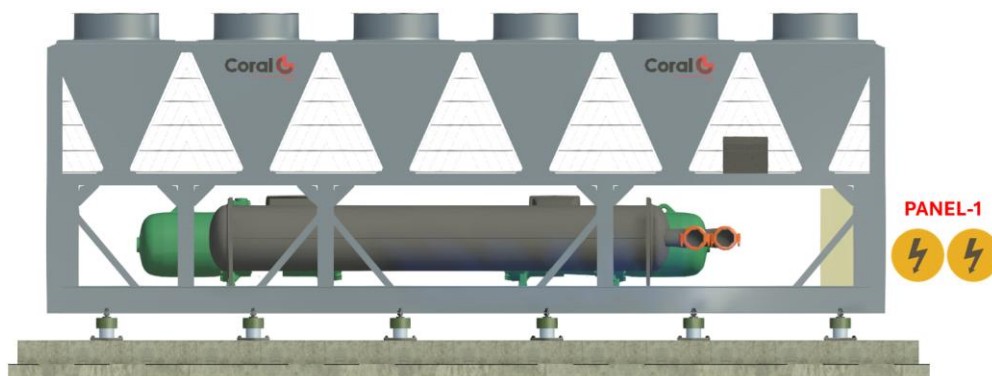
Electrical Connections		
Amperage	Electrical Circuit 1	Electrical Circuit 2
Maximum Operating Current (MCA):	219.00 A	219.00 A
Maximum Overcurrent Protection (MOCP):	350.00 A	350.00 A

Compressor Information		
Brand:	Bitzer	
Model:	CSH8573-125Y-40D	
Compressor Type:	Semi-Hermetic Screw	
Maximum Compressor Current:	187.20 A	
Quantity:	2 Piece/s	
Oil Type (per compressor):	BSE170	774.30 oz
Capacity Regulating Range:	12.5% - 100%	

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 Information		
Power Supply:	460V / 3 Ph / 60 Hz	
Voltage Range:	440 V	480 V
Rating Current (A):	312.00 A	
Max. Starting Current (A):	533.00 A	
Maximum Operating Current (A)	438.00 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

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IPLV/NPLV Points (SI)

Load %	Cooling Capacity	Input Power	Cooling	Cooling COP	Evap. WPD	DBT	EEWT	ELWT
100	709.00 kW	212.60 kW	1.0543 kW/TR	3.33 W/W	68.00 kPa	35.00 °C	12.00 °C	7.00 °C
75	532.00 kW	131.00 kW	0.8658 kW/TR	4.06 W/W	68.00 kPa	27.00 °C	10.75 °C	7.00 °C
50	355.00 kW	75.50 kW	0.7478 kW/TR	4.70 W/W	68.00 kPa	19.00 °C	9.50 °C	7.00 °C
25	177.00 kW	33.00 kW	0.6555 kW/TR	5.36 W/W	68.00 kPa	13.00 °C	8.25 °C	7.00 °C

IPLV /NPLV =0.01*A+0.42*B+0.45*C+0.12*D= 4.50 (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	201.78 TR	212.60 kW	1.0543 kW/TR	11.39 (Btu/W.h)	22.75 ft CA	95.00 °F	53.60 °F	44.60 °F
75	151.41 TR	131.00 kW	0.8658 kW/TR	13.87 (Btu/W.h)	22.75 ft CA	80.60 °F	51.35 °F	44.60 °F
50	101.03 TR	75.50 kW	0.7478 kW/TR	16.06 (Btu/W.h)	22.75 ft CA	66.20 °F	49.10 °F	44.60 °F
25	50.37 TR	33.00 kW	0.6555 kW/TR	18.32 (Btu/W.h)	22.75 ft CA	55.40 °F	46.85 °F	44.60 °F

IPLV /NPLV =0.01*A+0.42*B+0.45*C+0.12*D= 15.36 EER (Btu/w)

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

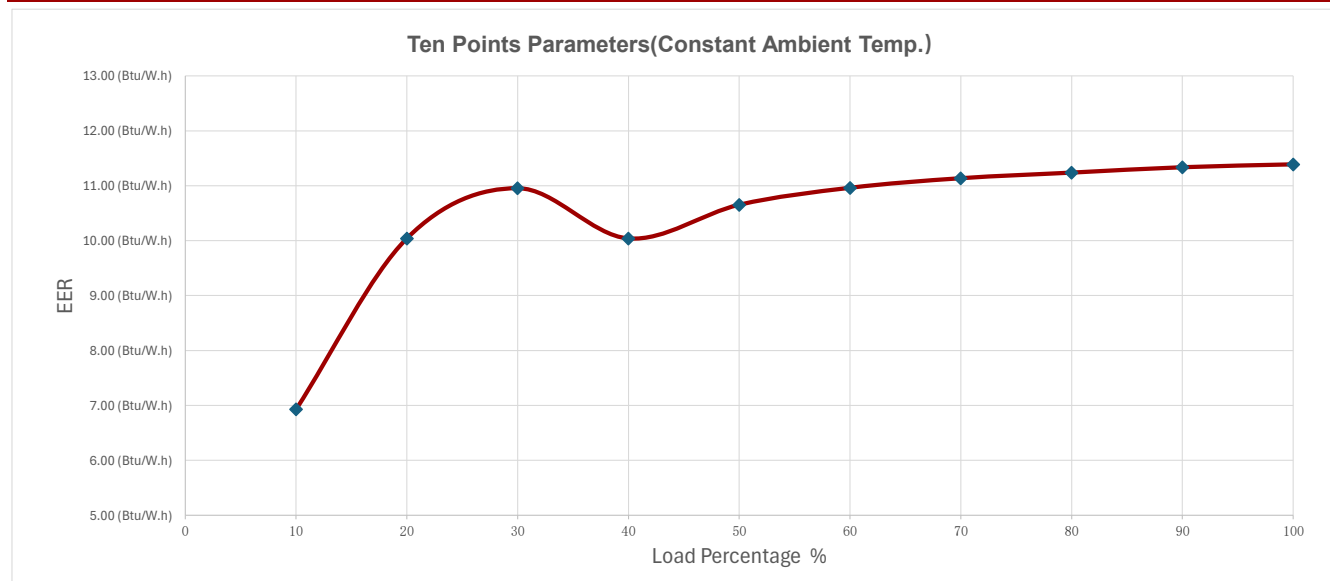
Performance calculations are in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

Ten Points Parameters(Constant Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	201.78 TR	212.60 kW	1.0543 kW/TR	11.39 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
90	181.57 TR	192.20 kW	1.0592 kW/TR	11.34 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
80	161.37 TR	172.30 kW	1.0684 kW/TR	11.24 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
70	141.16 TR	152.10 kW	1.0782 kW/TR	11.14 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
60	120.95 TR	132.40 kW	1.0953 kW/TR	10.96 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
50	101.03 TR	113.80 kW	1.1271 kW/TR	10.65 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
40	80.83 TR	96.60 kW	1.1959 kW/TR	10.04 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
30	60.62 TR	66.40 kW	1.0961 kW/TR	10.96 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
20	40.41 TR	48.30 kW	1.0735 kW/TR	10.04 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
10	20.21 TR	35.00 kW	1.5558 kW/TR	6.93 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 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: CA2-200-4210

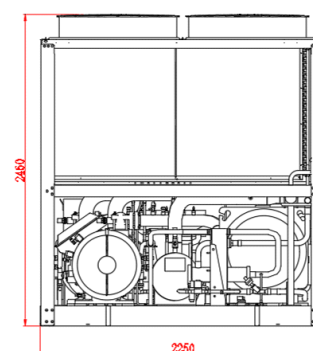
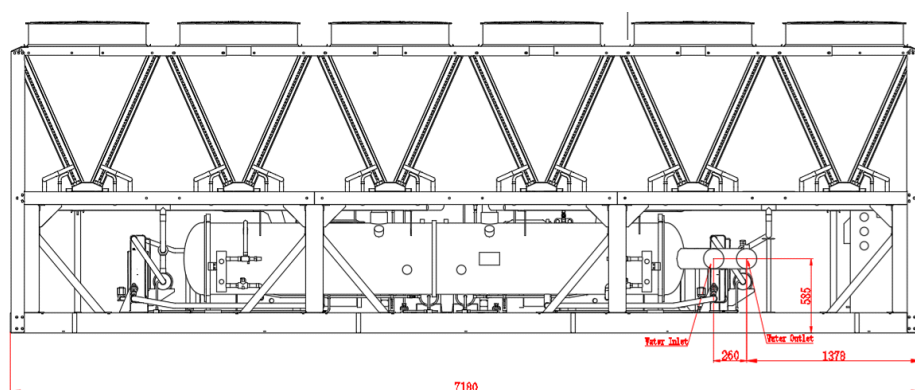
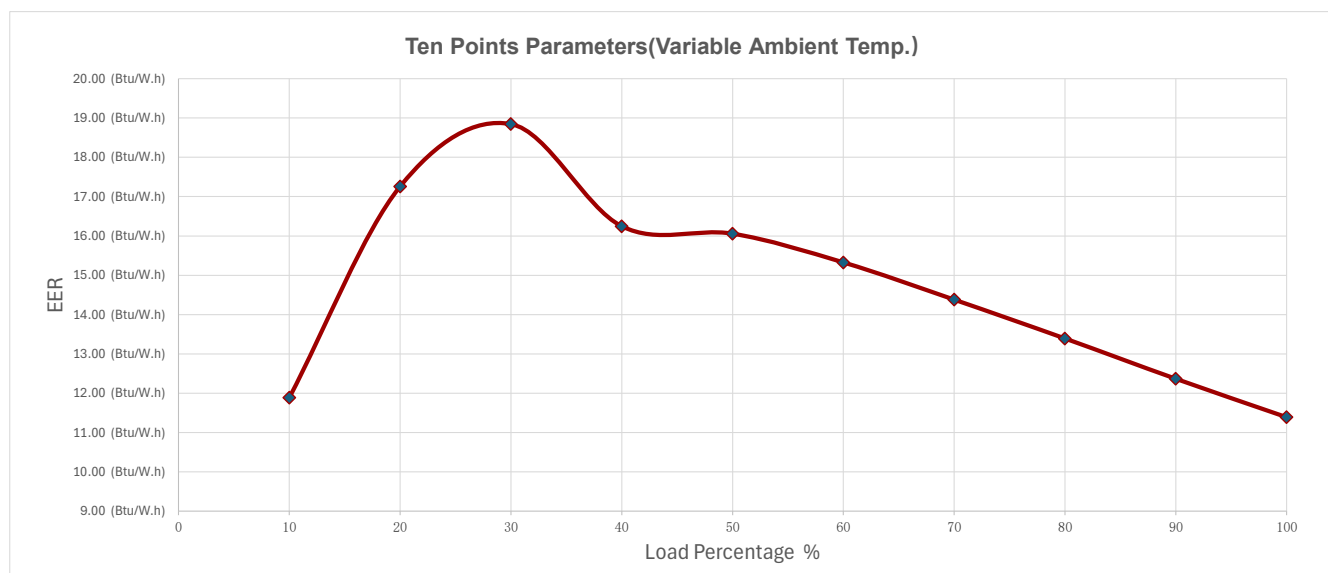


Ten Points Parameters(Variable Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	201.78 TR	212.60 kW	1.0543 kW/TR	11.39 (Btu/W.h)	22.75 ft CA	35.00 °C	536.71 GPM	7.00 °C
90	181.57 TR	176.20 kW	0.9710 kW/TR	12.37 (Btu/W.h)	22.75 ft CA	31.80 °C	536.71 GPM	7.00 °C
80	161.37 TR	144.60 kW	0.8967 kW/TR	13.39 (Btu/W.h)	22.75 ft CA	28.60 °C	536.71 GPM	7.00 °C
70	141.16 TR	117.80 kW	0.8351 kW/TR	14.38 (Btu/W.h)	22.75 ft CA	25.40 °C	536.71 GPM	7.00 °C
60	120.95 TR	94.70 kW	0.7834 kW/TR	15.33 (Btu/W.h)	22.75 ft CA	22.20 °C	536.71 GPM	7.00 °C
50	101.03 TR	75.50 kW	0.7478 kW/TR	16.06 (Btu/W.h)	22.75 ft CA	19.00 °C	536.71 GPM	7.00 °C
40	80.83 TR	59.70 kW	0.7391 kW/TR	16.25 (Btu/W.h)	22.75 ft CA	15.80 °C	536.71 GPM	7.00 °C
30	60.62 TR	38.60 kW	0.6372 kW/TR	18.85 (Btu/W.h)	22.75 ft CA	13.00 °C	536.71 GPM	7.00 °C
20	40.41 TR	28.10 kW	0.6958 kW/TR	17.26 (Btu/W.h)	22.75 ft CA	13.00 °C	536.71 GPM	7.00 °C
10	20.21 TR	20.4	1.0102 kW/TR	11.89 (Btu/W.h)	22.75 ft CA	13.00 °C	536.71 GPM	7.00 °C

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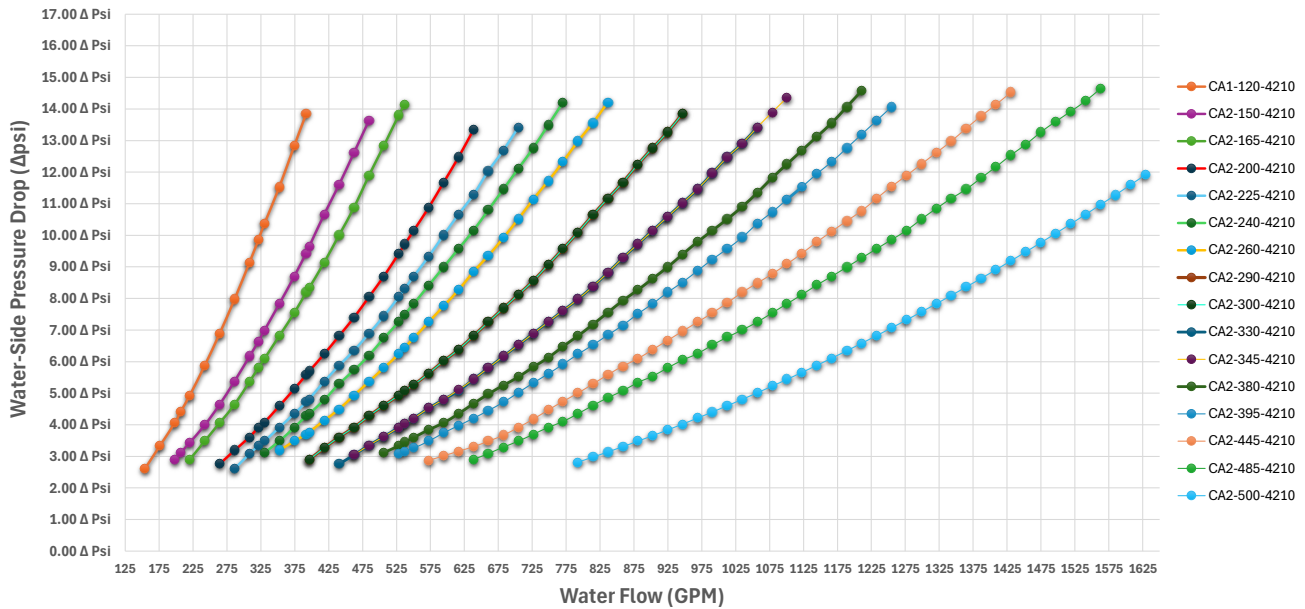
Chiller Model: CA2-200-4210



Dimension Model: CA2-200-4210	Length	Width	Height
	7,180.00 mm	2,250.00 mm	2,460.00 mm

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Water Pressure Drop Curve IP (Chiller Coral)



CA2-200-4210

Cooling Capacity:	709.00 kW	201.78 TR
Chilled Water Flow:	121.90 m ³ /h	536.71 GPM
Width:	2,250.00 mm	88.58 in
Length:	7,180.00 mm	282.68 in
Height:	2,460.00 mm	96.85 in
Fan Quantity:	12 Units	
Nozzle Size(DN):	150.00 mm	6.00 in
Operating Weight:	7,360.00 kg	16,226.02 lb