



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:	2,520.00 mm	99.21 in
Shipping Weight:	7,260.00 Kgs	16,005.56 Lbs
Operating Weight:	7,360.00 Kgs	16,226.02 Lbs
Capacity Control	Stepless Control	
Refrigerant:	R134a	
Refrigerant(Ckt1 / Ckt2):	150.00 Kgs	150.00 Kgs
Starting Control:	Y-Δ	

Performance Information(Cooling Condition)		
Cooling Capacity:	709.00 Kw	200.00 Tons
Entering Water Temp:	12.00 °C	53.60 °F
Leaving Water Temp:	7.00 °C	44.60 °F
Ambient Temperatura (DB):	35.00 °C	95.00 °F
Water Flow (Max):	122.00 m³/hr	537.15 Gpm
Input Power (Electrical):	212.60 Kw	
IPLV/NPLV (W/W - Btu /w):	4.80 EER (W/W)	16.39 EER (Btu/w)
COP (W/W - Btu /w):	3.33 EER (W/W)	11.37 EER (Btu/w)

Compressor Information		
Brand:	Bitzer	
Model:	CSH8573-125Y-40D	
Type Compressor:	Semi-Hermetic Screw	
Maximal Amperaje Control:	187.20 Amperes	
Quantity:	2.00 Piece	
Oil Model (by compressor):	BSE170	774.30 Oz
Capacity Regulating Range:	25.0% - 100.0 %	

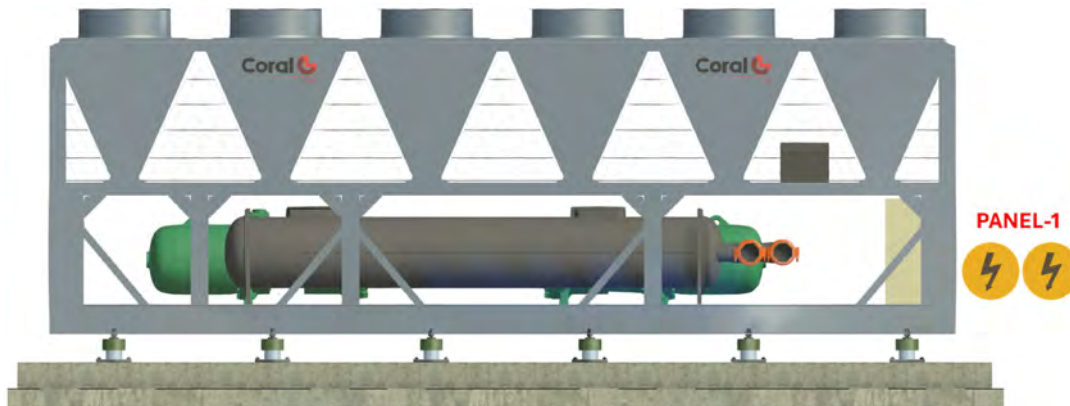
Water Side Heat Exchanger Information		
Fluid Type:	Fresh Water	
Nozzle Type:	Victaulic Coupling	
Water Volume:	148.00 Lts	39.10 Galons
Heat Exchanger Type:	Flooded Shell-and-Tube	
Fouling Factor:	0.018 m².K/kW	0.1021 ft².F/Btu
Nozzle Size(DN):	150.00 mm	6.00 in
Water Pressure Drop:	68.00 kPa	22.75 ft CA
Design Pressure of Water Side (Max):	1.00 MPa	145.04 Psi

Air Side Heat Exchanger Information		
Type:	Fine-Tube	
Fan Quantity:	12.00 Units	
Air Flow	294,000.00 m³/hr	173,041.64 Cfm
Fan Power Input	2.20 Kw/Unit	26.40 Kw Total

Electrical Conections		
Amperaje	Electrical Circuit 1	Electrical Circuit 2
Maximum operating current (MCA):	219.00 Amp	219.00 Amp
Maximum Overcurrent Protection (MOCP):	350.00 Amp	350.00 Amp

Electrical Information		
Power Supply:	460Volts / 3 Phases / 60 Hertz	
Voltaje Range:	440 Volts	480 Volts
Rating Current (A):	312.00 Amp	
Max. Starting Current (A):	533.00 Amp	
Maximum operating current (A)	438.00 Amp	

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



- * Garantía 2 Años en partes y en compresores
- * Resortes anti-vibratorios

- * Refrigerante Ecologico
- * Conexiones de Tuberia ranurada (Victaulic)



IPLV/NPLV Points (SI)

Load %	Cooling Capacity (Kw)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (w/w)	Evap. WPD (kPa)	DBT (°C)	EEWT (°C)	ELWT (°C)
100	710.00 Kw	212.80 Kw	0.9459 Kw/Tons	3.34 W/W	48.00 kPa	35.00 °C	13.00 °C	7.00 °C
75	533.00 Kw	131.30 Kw	0.7775 Kw/Tons	4.06 W/W	48.00 kPa	27.00 °C	11.50 °C	7.00 °C
50	355.00 Kw	65.70 Kw	0.5841 Kw/Tons	5.40 W/W	48.00 kPa	19.00 °C	10.00 °C	7.00 °C
25	177.50 Kw	33.40 Kw	0.5939 Kw/Tons	5.31 W/W	48.00 kPa	19.00 °C	8.50 °C	7.00 °C

$$IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.024$$

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).

IPLV/NPLV Points (IP)

Load %	Cooling Capacity (Tons)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	202.06 Tons	212.80 Kw	0.9459 Kw/Tons	11.39 EER (Btu/w-h)	16.06 ft CA	95.00 °F	55.40 °F	44.60 °F
75	151.69 Tons	131.30 Kw	0.7775 Kw/Tons	13.86 EER (Btu/w-h)	16.06 ft CA	80.60 °F	52.70 °F	44.60 °F
50	101.03 Tons	65.70 Kw	0.5841 Kw/Tons	18.45 EER (Btu/w-h)	16.06 ft CA	66.20 °F	50.00 °F	44.60 °F
25	50.52 Tons	33.40 Kw	0.5939 Kw/Tons	18.15 EER (Btu/w-h)	16.06 ft CA	66.20 °F	47.30 °F	44.60 °F

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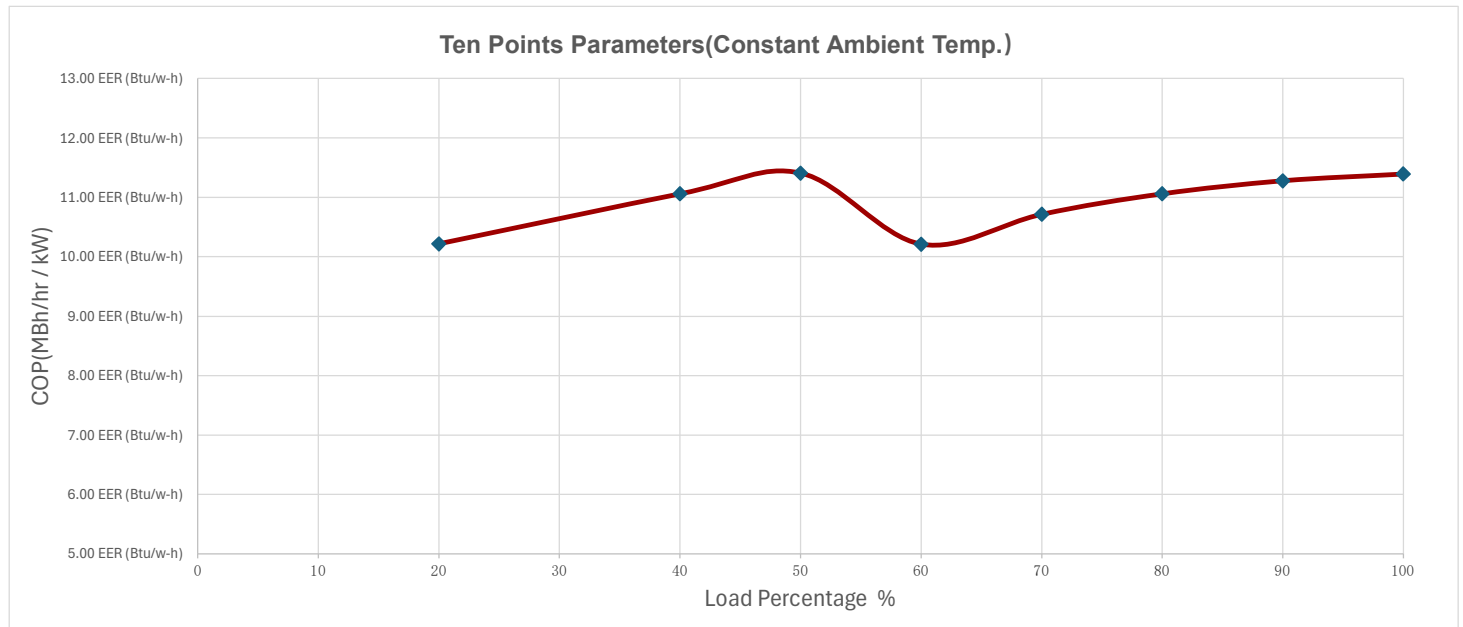
Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle , which is based on AHRI Standard 550/590 (I-P) and AHRI Standard

Ten Points Parameters(Constant Ambient Temp.)

Load %	Cooling Capacity (Tons)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	202.06 Tons	212.80 Kw	0.9459 Kw/Tons	11.39 EER (Btu/w-h)	16.06 ft CA	95.00 °F	55.40 °F	44.60 °F
90	181.86 Tons	193.50 Kw	0.9557 Kw/Tons	11.28 EER (Btu/w-h)	16.06 ft CA	95.00 °F	54.32 °F	44.60 °F
80	161.65 Tons	175.40 Kw	0.9746 Kw/Tons	11.06 EER (Btu/w-h)	16.06 ft CA	95.00 °F	53.24 °F	44.60 °F
70	141.45 Tons	158.40 Kw	1.0059 Kw/Tons	10.72 EER (Btu/w-h)	16.06 ft CA	95.00 °F	52.16 °F	44.60 °F
60	121.24 Tons	142.40 Kw	1.0555 Kw/Tons	10.21 EER (Btu/w-h)	16.06 ft CA	95.00 °F	51.08 °F	44.60 °F
50	101.03 Tons	106.40 Kw	0.9449 Kw/Tons	11.41 EER (Btu/w-h)	16.06 ft CA	95.00 °F	50.00 °F	44.60 °F
40	80.83 Tons	87.70 Kw	0.9746 Kw/Tons	11.06 EER (Btu/w-h)	16.06 ft CA	95.00 °F	48.92 °F	44.60 °F
20	60.62 Tons	71.20 Kw	1.0550 Kw/Tons	10.22 EER (Btu/w-h)	16.06 ft CA	95.00 °F	47.84 °F	44.60 °F

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

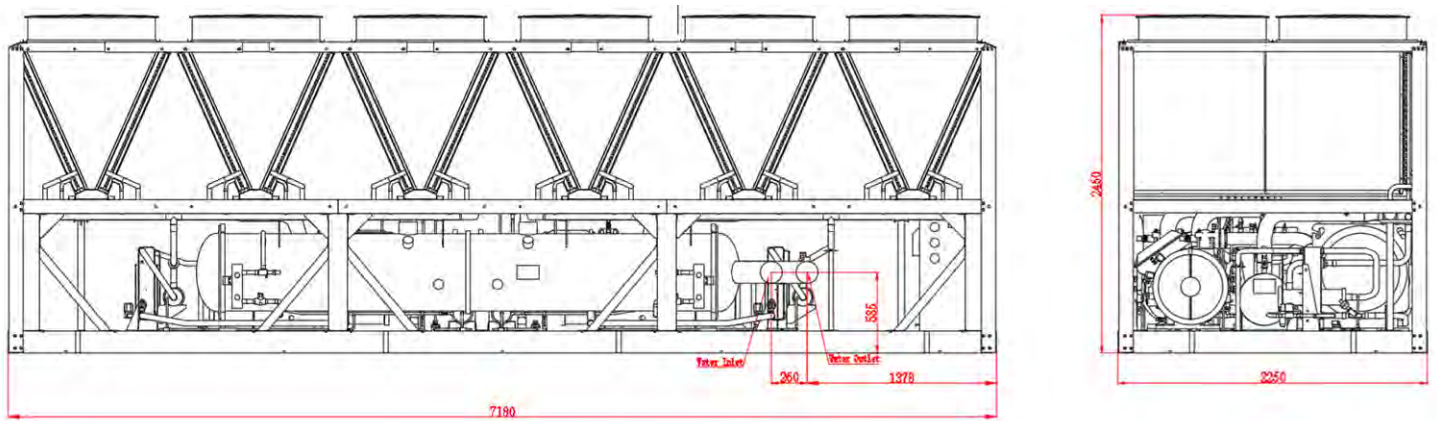
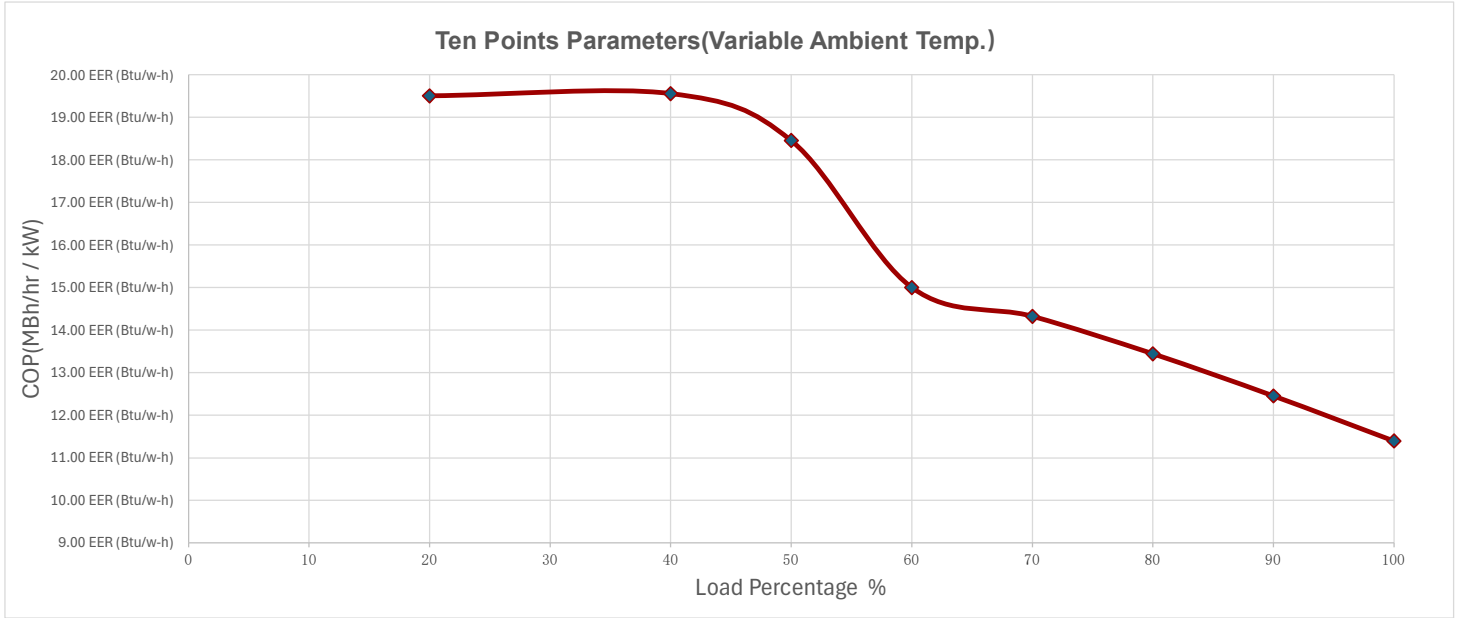


Ten Points Parameters(Variable Ambient Temp.)

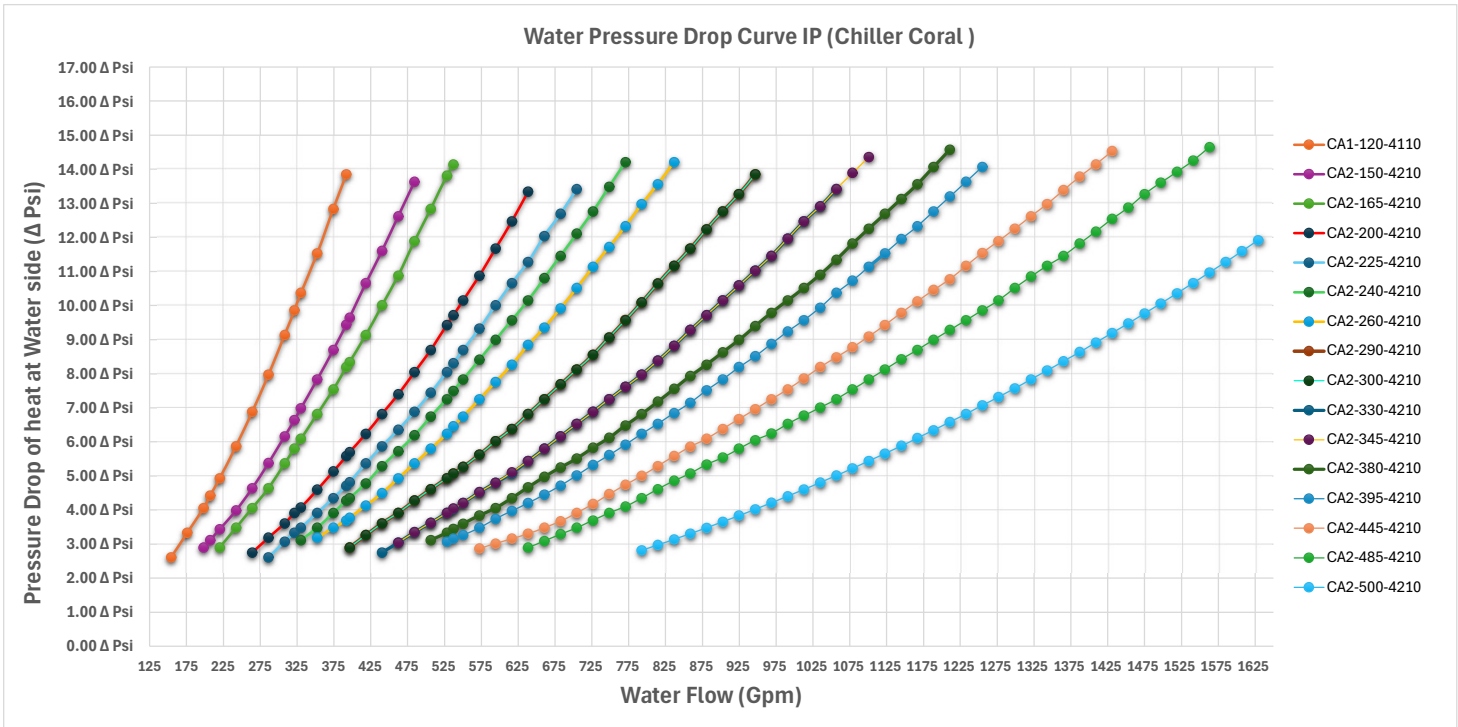
Load %	Cooling Capacity (Tons) (Dual Compressor)	Input Power (Kw)	Cooling kW/Ton	Cooling COP (Btu/w-h)	Evap. WPD (ft CA)	DBT (°F)	EEWT (°F)	ELWT (°F)
100	202.06 Tons	212.80 Kw	0.9459 Kw/Tons	11.39 EER (Btu/w-h)	16.06 ft CA	95.00 °F	55.40 °F	44.60 °F
90	181.86 Tons	175.20 Kw	0.8653 Kw/Tons	12.46 EER (Btu/w-h)	16.06 ft CA	89.24 °F	54.32 °F	44.60 °F
80	161.65 Tons	144.30 Kw	0.8018 Kw/Tons	13.44 EER (Btu/w-h)	16.06 ft CA	83.48 °F	53.24 °F	44.60 °F
70	141.45 Tons	118.50 Kw	0.7525 Kw/Tons	14.32 EER (Btu/w-h)	16.06 ft CA	77.72 °F	52.16 °F	44.60 °F
60	121.24 Tons	97.00 Kw	0.7186 Kw/Tons	15.00 EER (Btu/w-h)	16.06 ft CA	71.96 °F	51.08 °F	44.60 °F
50	101.03 Tons	65.70 Kw	0.5841 Kw/Tons	18.45 EER (Btu/w-h)	16.06 ft CA	66.20 °F	50.00 °F	44.60 °F
40	80.83 Tons	49.60 Kw	0.5512 Kw/Tons	19.55 EER (Btu/w-h)	16.06 ft CA	60.44 °F	48.92 °F	44.60 °F
20	60.62 Tons	37.30 Kw	0.5527 Kw/Tons	19.50 EER (Btu/w-h)	16.06 ft CA	55.40 °F	47.84 °F	44.60 °F

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Dimension Model: CA2-200-4210	Length	Width	Height
	7,180.00 mm	2,250.00 mm	2,520.00 mm



CA2-200-4210		
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Water Flow (Max):	122.00 m ³ /hr	537.15 Gpm
Width:	2,250.00 mm	88.58 in
Length:	7,180.00 mm	282.68 in
Height:	2,520.00 mm	99.21 in
Fan Quantity:	12.00 Units	
Nozzle Size(DN):	150.00 mm	6.00 in
Operating Weight:	7,360.00 Kgs	16,226.02 Lbs