



FOCUSED ON APPLICATION HVAC



Unit information		
Chiller Model	CA2-240-4210	
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:	8,240.00 Kgs	18,166.09 Lbs
Operating Weight:	8,360.00 Kgs	18,430.64 Lbs
Capacity Control	Stepless Control	
Refrigerant:	R134a	
Refrigerant(Ckt1 / Ckt2):	170.00 Kgs	170.00 Kgs
Starting Control:	Y-Δ	

Performance Information(Cooling Condition)		
Cooling Capacity:	860.00 Kw	240.00 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):	148.00 m³/hr	651.62 Gpm
Input Power (Electrical):	267.70 Kw	
IPLV/NPLV (W/W - Btu /w):	4.62 EER (W/W)	15.78 EER (Btu/w)
COP (W/W - Btu /w):	3.21 EER (W/W)	10.96 EER (Btu/w)

Compressor Information	
Brand:	Bitzer
Model:	CSH8583-160Y-40D
Type Compressor:	Semi-Hermetic Screw
Maximal Amperaje Control:	236.00 Amperes
Quantity:	2.00 Piece
Oil Model (by compressor):	BSE170 668.70 Oz
Capacity Regulating Range:	25.0% - 100.0 %

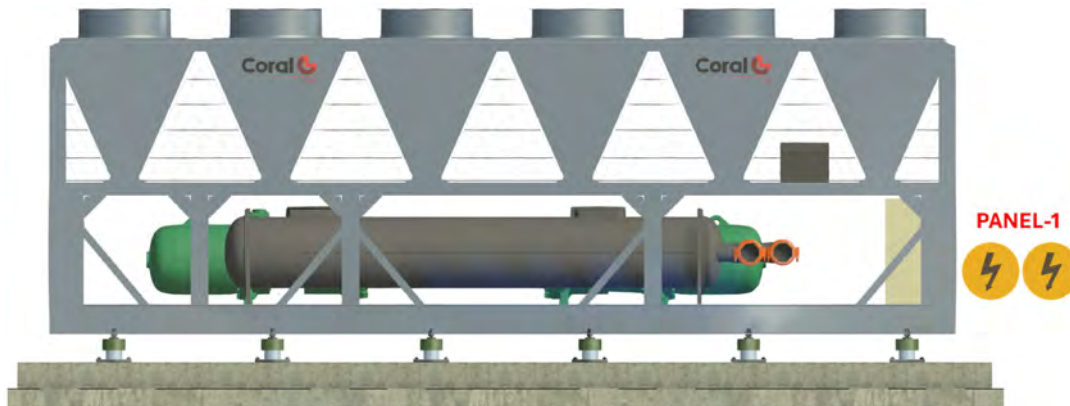
Water Side Heat Exchanger Information		
Fluid Type:	Fresh Water	
Nozzle Type:	Victaulic Couping	
Water Volume:	163.00 Lts	43.06 Galons
Heat Exchanger Type:	Flooded Shell-and-Tube	
Fouling Factor:	0.018 m².K/kW	0.1021 ft².F/Btu
Nozzle Size(DN):	200.00 mm	8.00 in
Water Pressure Drop:	73.00 kPa	24.42 ft 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):	268.00 Amp	268.00 Amp
Maximum Overcurrent Protection (MOCP):	400.00 Amp	400.00 Amp

Electrical Information	
Power Supply:	460Volts / 3 Phases / 60 Hertz
Voltaje Range:	440 Volts 480 Volts
Rating Current (A):	376.00 Amp
Max. Starting Current (A):	639.00 Amp
Maximum operating current (A)	536.00 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	861.00 Kw	267.80 Kw	0.9816 Kw/Tons	3.22 W/W	64.00 kPa	35.00 °C	12.40 °C	7.00 °C
75	646.00 Kw	165.20 Kw	0.8071 Kw/Tons	3.91 W/W	64.00 kPa	27.00 °C	11.10 °C	7.00 °C
50	431.00 Kw	82.80 Kw	0.6063 Kw/Tons	5.21 W/W	64.00 kPa	19.00 °C	9.70 °C	7.00 °C
25	215.30 Kw	42.10 Kw	0.6171 Kw/Tons	5.11 W/W	64.00 kPa	19.00 °C	8.40 °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	245.04 Tons	267.80 Kw	0.9816 Kw/Tons	10.98 EER (Btu/w-h)	21.41 ft CA	95.00 °F	54.32 °F	44.60 °F
75	183.85 Tons	165.20 Kw	0.8071 Kw/Tons	13.35 EER (Btu/w-h)	21.41 ft CA	80.60 °F	51.98 °F	44.60 °F
50	122.66 Tons	82.80 Kw	0.6063 Kw/Tons	17.78 EER (Btu/w-h)	21.41 ft CA	66.20 °F	49.46 °F	44.60 °F
25	61.27 Tons	42.10 Kw	0.6171 Kw/Tons	17.47 EER (Btu/w-h)	21.41 ft CA	66.20 °F	47.12 °F	44.60 °F

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

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

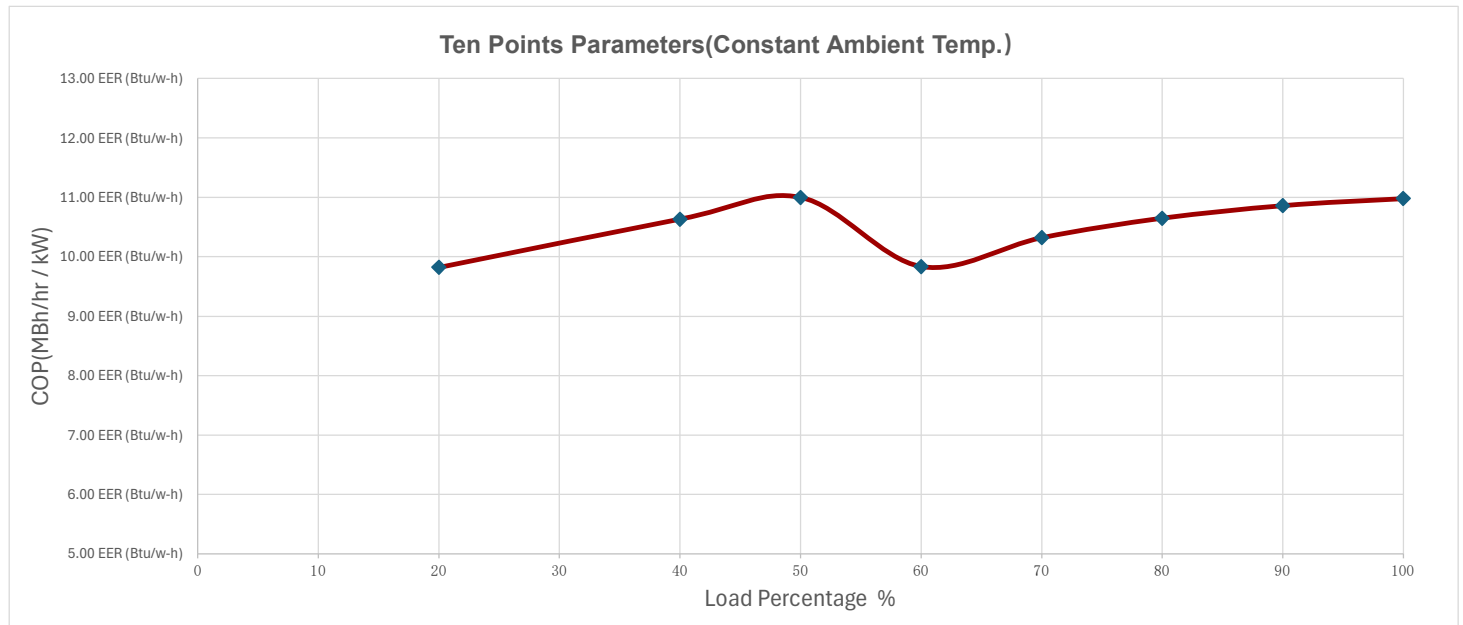
Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle , which is based on AHRI Standard 550/590 (I-P) and AHRI Standard

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	245.04 Tons	267.80 Kw	0.9816 Kw/Tons	10.98 EER (Btu/w-h)	21.41 ft CA	95.00 °F	54.32 °F	44.60 °F
90	220.56 Tons	243.70 Kw	0.9924 Kw/Tons	10.86 EER (Btu/w-h)	21.41 ft CA	95.00 °F	53.42 °F	44.60 °F
80	196.09 Tons	221.00 Kw	1.0123 Kw/Tons	10.65 EER (Btu/w-h)	21.41 ft CA	95.00 °F	52.34 °F	44.60 °F
70	171.61 Tons	199.50 Kw	1.0441 Kw/Tons	10.32 EER (Btu/w-h)	21.41 ft CA	95.00 °F	51.44 °F	44.60 °F
60	147.14 Tons	179.40 Kw	1.0958 Kw/Tons	9.84 EER (Btu/w-h)	21.41 ft CA	95.00 °F	50.36 °F	44.60 °F
50	122.66 Tons	133.90 Kw	0.9801 Kw/Tons	11.00 EER (Btu/w-h)	21.41 ft CA	95.00 °F	49.46 °F	44.60 °F
40	97.90 Tons	110.50 Kw	1.0138 Kw/Tons	10.63 EER (Btu/w-h)	21.41 ft CA	95.00 °F	48.56 °F	44.60 °F
20	73.43 Tons	89.70 Kw	1.0973 Kw/Tons	9.82 EER (Btu/w-h)	21.41 ft CA	95.00 °F	47.48 °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: CA2-240-4210

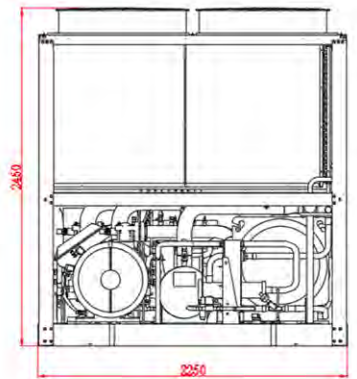
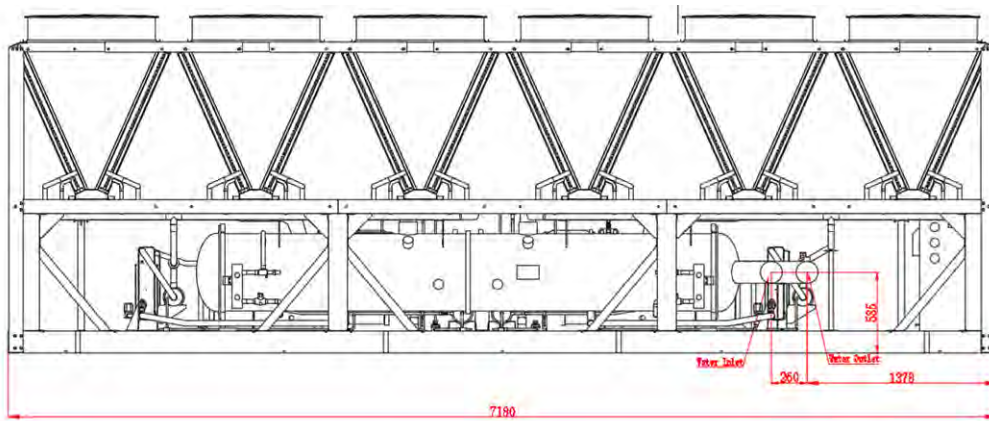
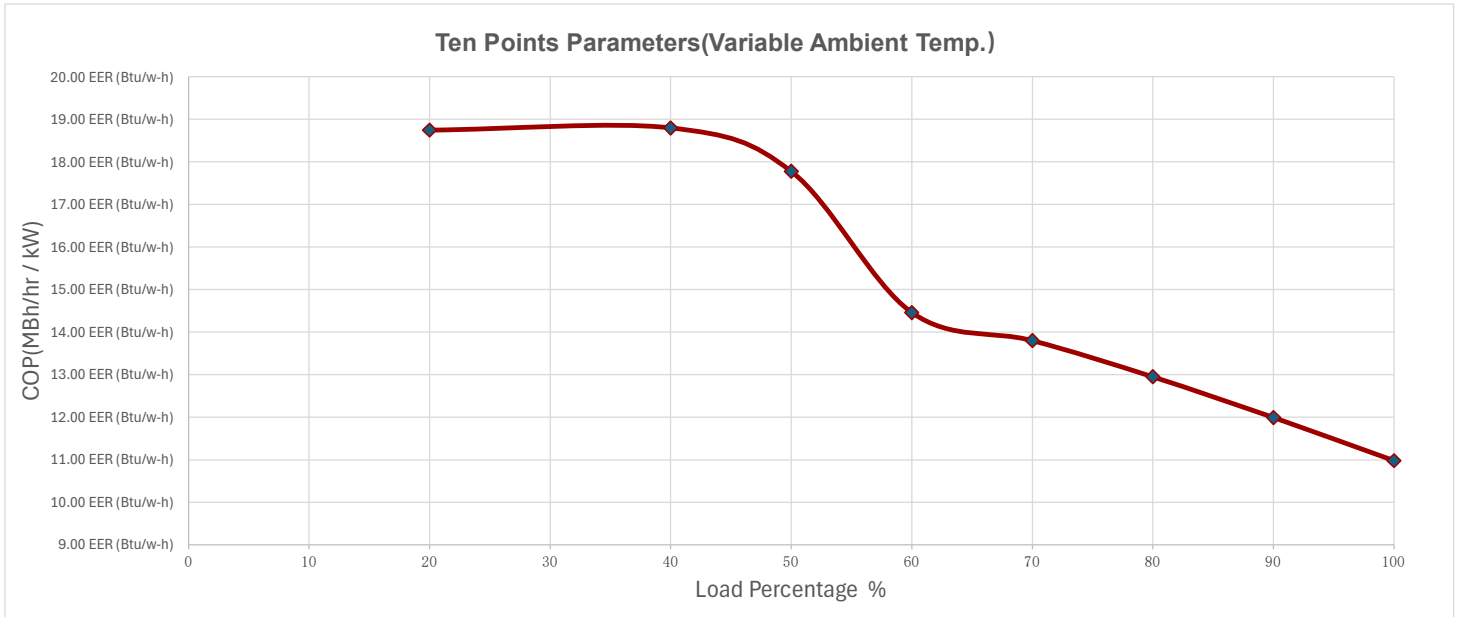


Ten Points Parameters(Variable Ambient Temp.)

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	245.04 Tons	267.80 Kw	0.9816 Kw/Tons	10.98 EER (Btu/w-h)	21.41 ft CA	95.00 °F	54.32 °F	44.60 °F
90	220.56 Tons	220.70 Kw	0.8987 Kw/Tons	11.99 EER (Btu/w-h)	21.41 ft CA	89.24 °F	53.42 °F	44.60 °F
80	196.09 Tons	181.70 Kw	0.8323 Kw/Tons	12.95 EER (Btu/w-h)	21.41 ft CA	83.48 °F	52.34 °F	44.60 °F
70	171.61 Tons	149.20 Kw	0.7809 Kw/Tons	13.80 EER (Btu/w-h)	21.41 ft CA	77.72 °F	51.44 °F	44.60 °F
60	147.14 Tons	122.10 Kw	0.7454 Kw/Tons	14.46 EER (Btu/w-h)	21.41 ft CA	71.96 °F	50.36 °F	44.60 °F
50	122.66 Tons	82.80 Kw	0.6063 Kw/Tons	17.78 EER (Btu/w-h)	21.41 ft CA	66.20 °F	49.46 °F	44.60 °F
40	97.90 Tons	62.50 Kw	0.5734 Kw/Tons	18.80 EER (Btu/w-h)	21.41 ft CA	60.44 °F	48.56 °F	44.60 °F
20	73.43 Tons	47.00 Kw	0.5749 Kw/Tons	18.75 EER (Btu/w-h)	21.41 ft CA	55.40 °F	47.48 °F	44.60 °F

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Dimension Model: CA2-240-4210

Length

7,180.00 mm

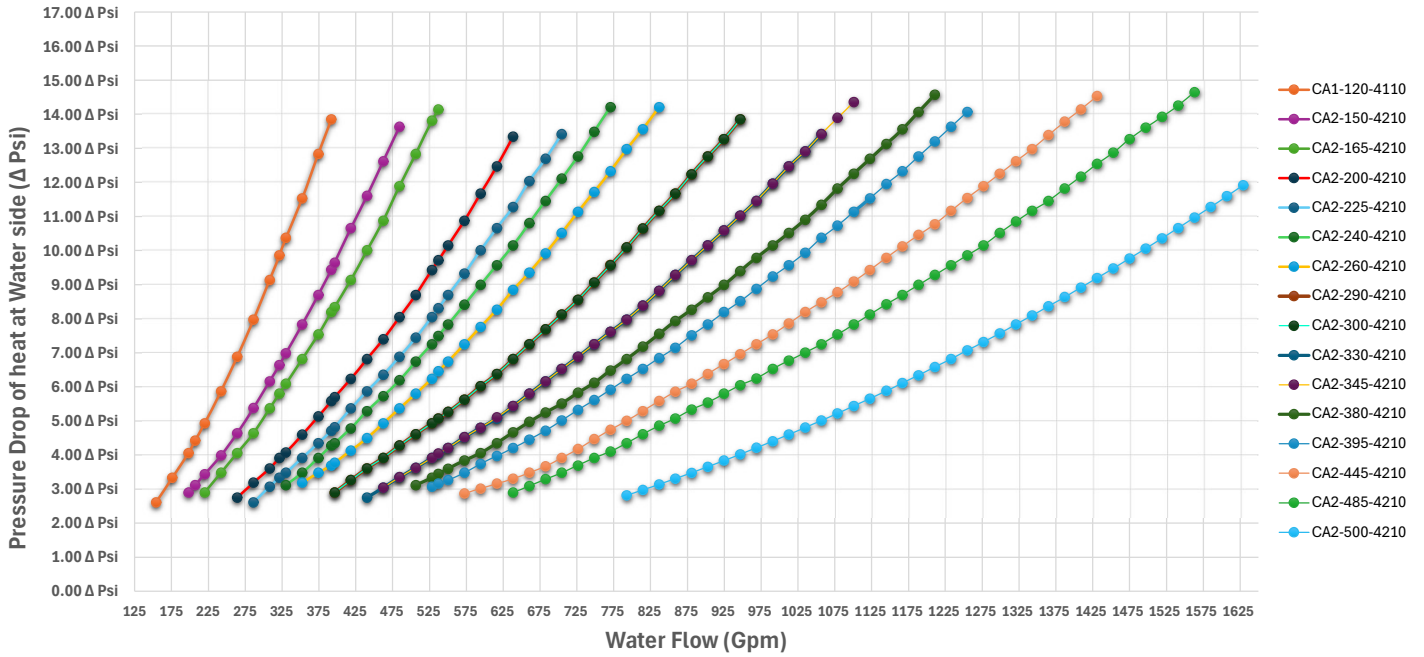
Width

2,250.00 mm

Height

2,520.00 mm

Water Pressure Drop Curve IP (Chiller Coral)



CA2-240-4210

Cooling Capacity:	860.00 Kw	240.00 Tons
Water Flow (Max):	148.00 m ³ /hr	651.62 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):	200.00 mm	8.00 in
Operating Weight:	8,360.00 Kgs	18,430.64 Lbs