



FOCUSED ON APPLICATION HVAC



R134a



Unit information

Chiller Model	CA2-260-4210	
Width:	2,250.00 mm	88.58 in
Length:	9,570.00 mm	376.77 in
Height:	2,520.00 mm	99.21 in
Shipping Weight:	8,980.00 kg	19,797.51 lb
Operating Weight:	9,090.00 kg	20,040.02 lb
Capacity Control	Slide Valve	
Refrigerant:	R134a	
Refrigerant Charge (Ckt1 / Ckt2):	175.00 kg	175.00 Kg
Starting Control:	Y-Δ	

Performance Information (Cooling Conditions)

** Cooling Capacity:	922.00 kW	262.40 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	158.60 m³/h	698.29 GPM
Input Power (Electrical):	281.80 kW	
IPLV/NPLV:	4.40 (W/W)	15.03 (Btu/W.h)
COP:	3.27 (W/W)	11.17 EER (Btu/W.h)

Compressor Information

Brand:	Bitzer	
Model:	CSH9553-180Y-40D	
Compressor Type:	Semi-Hermetic Screw	
Maximum Compressor Current:	254.00 A	
Quantity:	2 Piece/s	
Oil Type (per compressor):	BSE170	1,055.90 oz
Capacity Regulating Range:	12.5% - 100%	

Water-Side Heat Exchanger Information

Fluid Type:	Water	
Nozzle Type:	Victaulic Coupling	
Water Volume:	172.00 L	45.44 gal
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:	72.00 kPa	24.09 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:	16 Units	
Air Flow	392,000.00 m³/h	230,722.18 CFM
Fan Power Input	2.20 kW/unit	35.20 kW Total

Electrical Connections

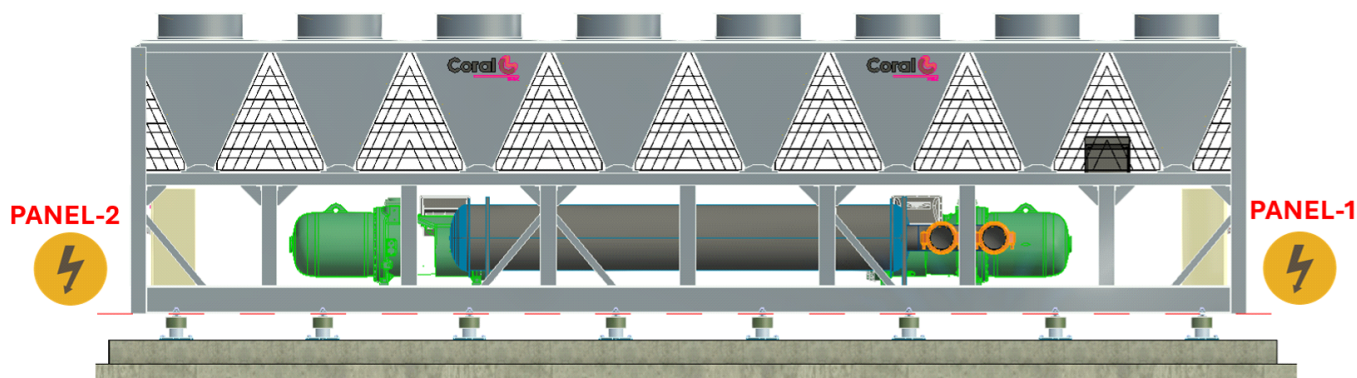
Amperage	Electrical Circuit 1	Electrical Circuit 2
Maximum Operating Current (MCA):	296.50 A	296.50 A
Maximum Overcurrent Protection (MOCP):	400.00 A	400.00 A

Electrical Information

Power Supply:	460V / 3 Ph / 60 Hz	
Voltage Range:	440 V	480 V
Rating Current (A):	392.00 A	
Max. Starting Current (A):	761.00 A	
Maximum Operating Current (A)	593.00 A	

Electrical Panel

Electrical Circuit 1	Electrical Circuit 2
Electrical Connection Point:	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	922.00 kW	281.80 kW	1.0746 kW/TR	3.27 W/W	72.00 kPa	35.00 °C	12.00 °C	7.00 °C
75	692.00 kW	173.00 kW	0.8790 kW/TR	4.00 W/W	72.00 kPa	27.00 °C	10.75 °C	7.00 °C
50	461.00 kW	100.20 kW	0.7642 kW/TR	4.60 W/W	72.00 kPa	19.00 °C	9.50 °C	7.00 °C
25	231.00 kW	44.90 kW	0.6834 kW/TR	5.14 W/W	72.00 kPa	13.00 °C	8.25 °C	7.00 °C

IPLV /NPLV =0.01*A+0.42*B+0.45*C+0.12*D= 4.40 (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	262.40 TR	281.80 kW	1.0746 kW/TR	11.17 (Btu/W.h)	24.09 ft CA	95.00 °F	53.60 °F	44.60 °F
75	196.94 TR	173.00 kW	0.8790 kW/TR	13.66 (Btu/W.h)	24.09 ft CA	80.60 °F	51.35 °F	44.60 °F
50	131.20 TR	100.20 kW	0.7642 kW/TR	15.71 (Btu/W.h)	24.09 ft CA	66.20 °F	49.10 °F	44.60 °F
25	65.74 TR	44.90 kW	0.6834 kW/TR	17.57 (Btu/W.h)	24.09 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= 15.03 EER (Btu/w)

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

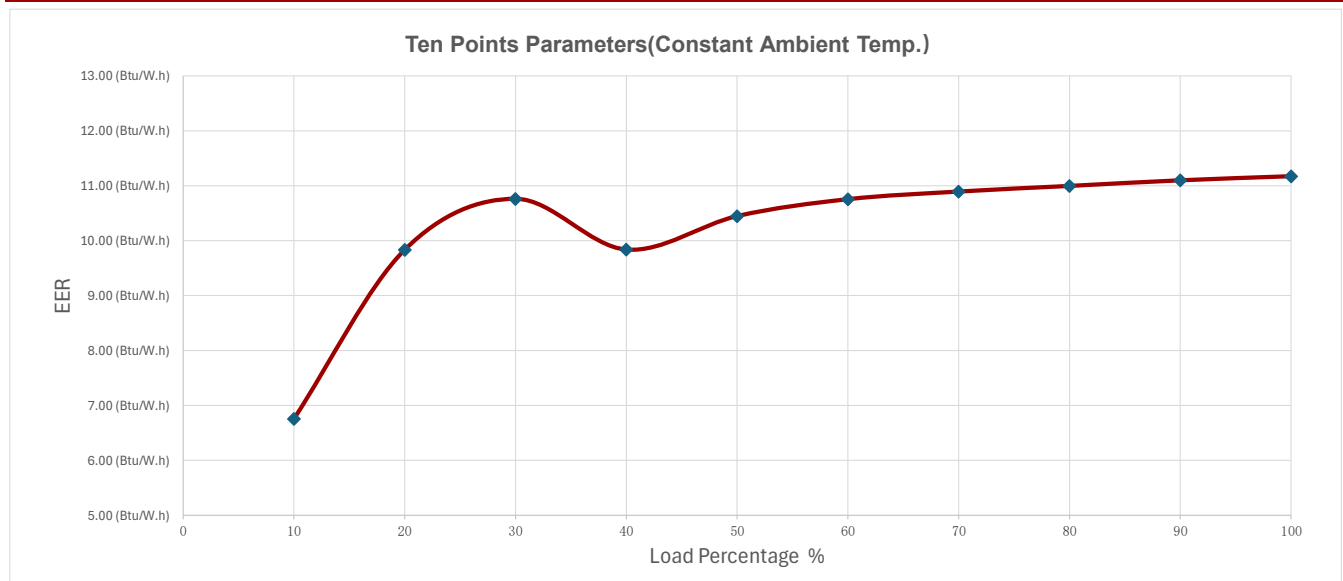
Performance calculations are in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

Ten Points Parameters(Constant Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	262.40 TR	281.80 kW	1.0746 kW/TR	11.17 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
90	236.22 TR	255.40 kW	1.0819 kW/TR	11.10 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
80	210.03 TR	229.20 kW	1.0920 kW/TR	11.00 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
70	183.57 TR	202.20 kW	1.1022 kW/TR	10.89 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
60	157.38 TR	175.60 kW	1.1165 kW/TR	10.76 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
50	131.20 TR	150.70 kW	1.1494 kW/TR	10.45 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
40	105.02 TR	128.10 kW	1.2206 kW/TR	9.84 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
30	78.83 TR	87.90 kW	1.1157 kW/TR	10.76 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
20	52.37 TR	63.90 kW	1.0960 kW/TR	9.83 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
10	26.18 TR	46.50 kW	1.5952 kW/TR	6.76 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 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: CA2-260-4210

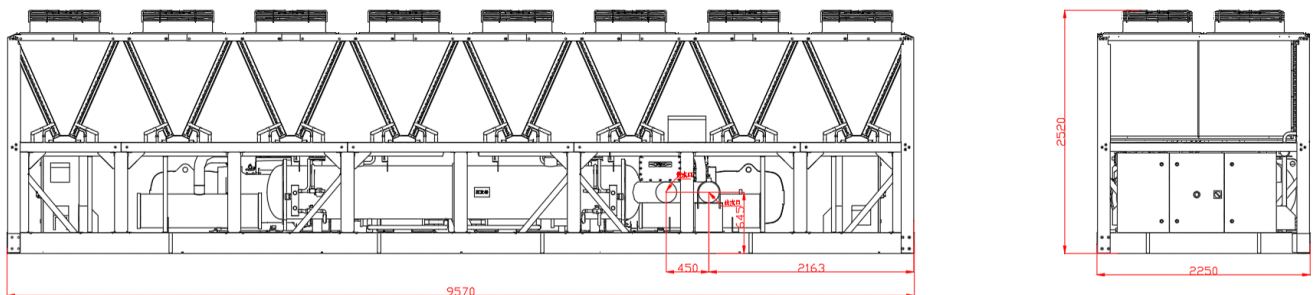
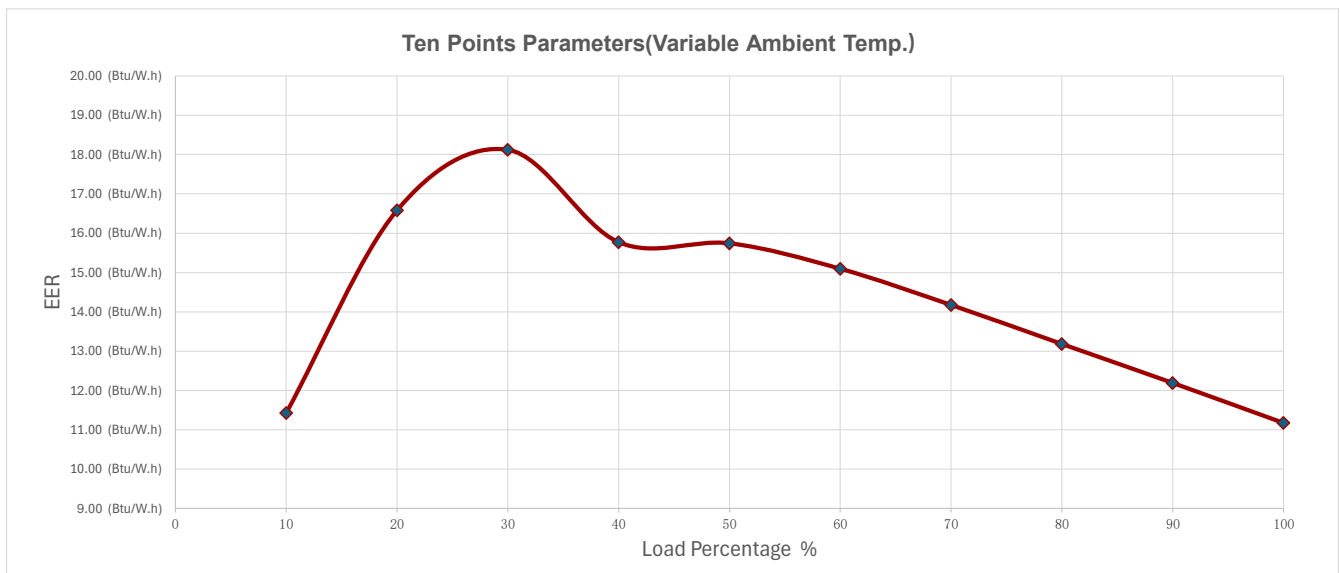


Ten Points Parameters(Variable Ambient Temp.)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD	DBT	FLOW RATE	ELWT
100	262.40 TR	281.80 kW	1.0746 kW/TR	11.17 (Btu/W.h)	24.09 ft CA	35.00 °C	698.29 GPM	7.00 °C
90	236.22 TR	232.50 kW	0.9849 kW/TR	12.19 (Btu/W.h)	24.09 ft CA	31.80 °C	698.29 GPM	7.00 °C
80	210.03 TR	191.20 kW	0.9109 kW/TR	13.18 (Btu/W.h)	24.09 ft CA	28.60 °C	698.29 GPM	7.00 °C
70	183.57 TR	155.40 kW	0.8471 kW/TR	14.17 (Btu/W.h)	24.09 ft CA	25.40 °C	698.29 GPM	7.00 °C
60	157.38 TR	125.10 kW	0.7954 kW/TR	15.10 (Btu/W.h)	24.09 ft CA	22.20 °C	698.29 GPM	7.00 °C
50	131.20 TR	100.00 kW	0.7627 kW/TR	15.74 (Btu/W.h)	24.09 ft CA	19.00 °C	698.29 GPM	7.00 °C
40	105.02 TR	79.90 kW	0.7613 kW/TR	15.77 (Btu/W.h)	24.09 ft CA	15.80 °C	698.29 GPM	7.00 °C
30	78.83 TR	52.20 kW	0.6626 kW/TR	18.12 (Btu/W.h)	24.09 ft CA	13.00 °C	698.29 GPM	7.00 °C
20	52.37 TR	37.90 kW	0.7242 kW/TR	16.58 (Btu/W.h)	24.09 ft CA	13.00 °C	698.29 GPM	7.00 °C
10	26.18 TR	27.50 kW	1.0510 kW/TR	11.43 (Btu/W.h)	24.09 ft CA	13.00 °C	698.29 GPM	7.00 °C

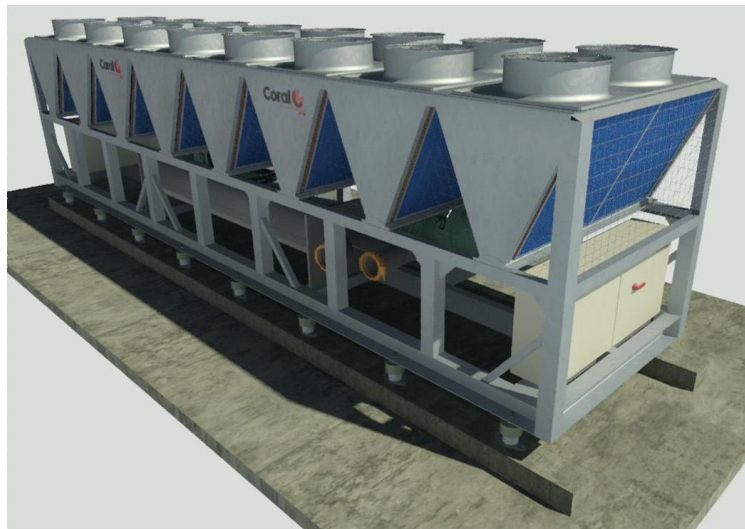
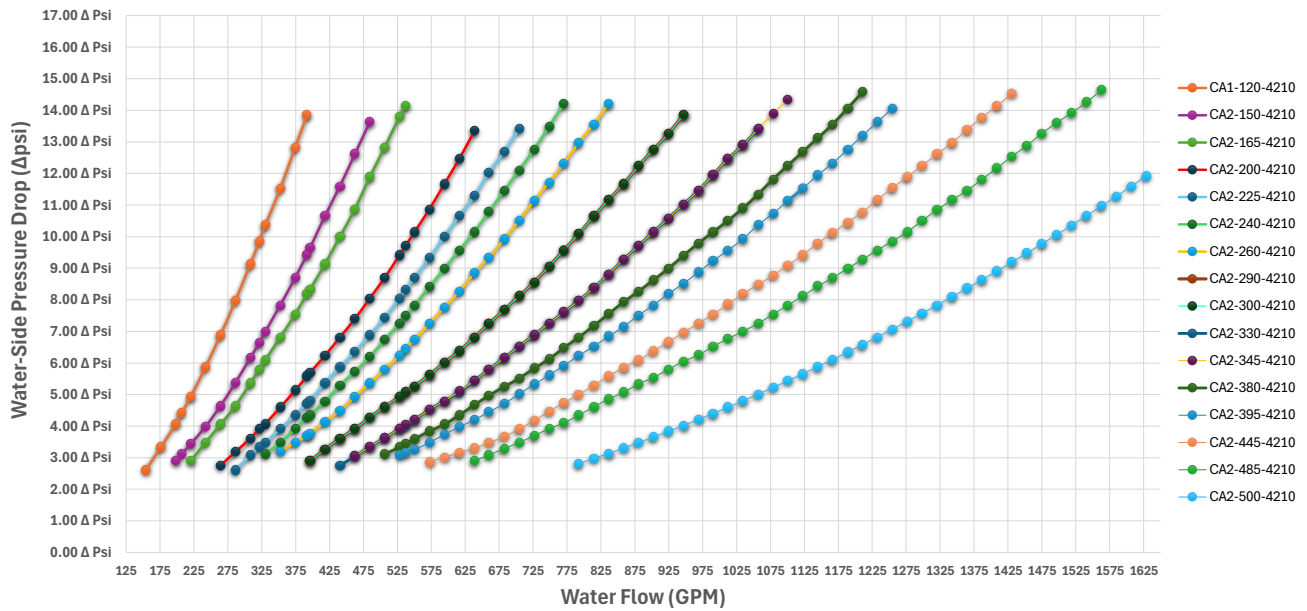
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Chiller Model: CA2-260-4210



Dimension Model: CA2-260-4210	Length	Width	Height
	9,570.00 mm	2,250.00 mm	2,520.00 mm

Water Pressure Drop Curve IP (Chiller Coral)



CA2-260-4210

Cooling Capacity:	922.00 kW	262.40 TR
Chilled Water Flow:	158.60 m³/h	698.29 GPM
Width:	2,250.00 mm	88.58 in
Length:	9,570.00 mm	376.77 in
Height:	2,520.00 mm	99.21 in
Fan Quantity:	16 Units	
Nozzle Size(DN):	200.00 mm	8.00 in
Operating Weight:	9,090.00 kg	20,040.02 lb