

Coral

FOCUSED ON APPLICATION HVAC



Unit information Water Cooled Screw Chiller		
Chiller Model:	CW2-350-4200	
Width:	1,599.95 mm	62.99 in
Length:	4,500.12 mm	177.17 in
Height:	2,109.98 mm	83.07 in
Shipping Weight:	6,450.00 kg	14,219.81 lb
Operating Weight:	7,150.00 kg	15,763.05 lb
Capacity Control:	Slide Valve	
Refrigerant:	R-134a	
Refrigerant Charge (Ckt1 / Ckt2):	145.00 kg	145.00 kg
Starting Control:	Y-Δ	

Performance Information (Cooling Conditions)		
Cooling Capacity:	1,230.90 kW	350.31 TR
Entering Water Temp (Evaporator):	12.22 °C	54.00 °F
Leaving Water Temp (Evaporator):	6.66 °C	43.99 °F
Entering Water Temp (Condenser):	29.44 °C	84.99 °F
Leaving Water Temp (Condenser):	35.00 °C	95.00 °F
Ambient Temperature (DB):	---	---
Evaporator Water Flow:	191.01 m³/h	840.99 GPM
Input Power (Electrical):	214.70 kW	
IPLV/NPLV:	7.45 (W/W)	25.44 (Btu/W.h)
COP:	5.73 (W/W)	19.58 EER (Btu/W.h)

Water-Side Heat Exchanger Information (Evaporator)		
Fluid Type:	Water	
Nozzle Type:	Victaulic Coupling	
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 in
Water Pressure Drop:	72.30 kPa	24.19 ft CA
Design Pressure of Water-Side:	1.00 MPa	145.03 psi
Passes:	2	
Pipe Wall Thickness:	1.15	
Flow Rate:	191.01 m³/h	840.99 GPM

Electrical Connections		
Amperage:	Electrical Circuit 1	Electrical Circuit 2
Maximum operating current (MCA):	-	----
Operating Current:	299.00 A	----
Maximum Overcurrent Protection (MOCP):	----	----

Options	
Bottom Channels	YES
Circuit Breaker	NO
Safety Valve	Single Safety Valves
Thermal Insulation:	20 mm
Shock Absorber	Rubber Vibration Isolator
Rubber Ball Cleaning Device	NO
Testing	Factory Self-Testing
RS485	YES
Control Cabinet IP rating	IP20
Harmonic Wave (Only Frequency)	---

Noise (Full Load)							
Frequency (Hz)	1/3rd octave	1rd octave	63.00 Hz	125.00 Hz	250.00 Hz	500.00 Hz	1,000.00 Hz
Noise (dBA)	91.00 dBA	-	-	-	-	-	-

* Garantía de 2 años en partes y compresores

* Aisladores antivibratorios de neopreno

* 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		EWT	LWT
100%	1,234.41 kW	212.90 kW	0.61 kW/TR	5.80 W/W	72.93 kPa	---	12.22 °C	6.67 °C
75%	924.93 kW	138.00 kW	0.52 kW/TR	6.72 W/W	73.23 kPa	---	10.83 °C	6.67 °C
50%	618.97 kW	75.30 kW	0.43 kW/TR	8.21 W/W	73.53 kPa	---	9.44 °C	6.67 °C
25%	309.48 kW	42.50 kW	0.48 kW/TR	7.27 W/W	74.13 kPa	---	8.06 °C	6.67 °C

Load %	Cooling Capacity	Input Power	Cooling	Cooling COP	Cond. WPD		EWT	LWT
100%	1,234.41 kW	212.90 kW	0.61 kW/TR	5.80 W/W	87.88 kPa	---	29.44 °C	34.61 °C
75%	924.93 kW	138.00 kW	0.52 kW/TR	6.72 W/W	89.97 kPa	---	23.89 °C	27.69 °C
50%	618.97 kW	75.30 kW	0.43 kW/TR	8.21 W/W	92.36 kPa	---	18.33 °C	20.81 °C
25%	309.48 kW	42.50 kW	0.48 kW/TR	7.27 W/W	92.66 kPa	---	18.33 °C	19.59 °C

Performance calculated in accordance with AHRI Standards 550/590 (I-P) and AHRI 551/591 (SI).

IPLV/NPLV Points (IP)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD		EWT	LWT
100%	351.00 TR	212.90 kW	0.61 kW	19.82 Btu/W.h	24.40 ft CA	---	54.00°F	44.00°F
75%	263.00 TR	138.00 kW	0.52 kW	22.93 Btu/W.h	24.50 ft CA	---	51.50°F	44.00°F
50%	176.00 TR	75.30 kW	0.43 kW	28.04 Btu/W.h	24.60 ft CA	---	49.00°F	44.00°F
25%	88.00 TR	42.50 kW	0.48 kW	24.84 Btu/W.h	24.80 ft CA	---	46.50°F	44.00°F

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Cond WPD		EWT	LWT
100%	351.00 TR	212.90 kW	0.61 kW	19.82 Btu/W.h	29.40 ft CA	---	85.00°F	94.30°F
75%	263.00 TR	138.00 kW	0.52 kW	22.93 Btu/W.h	30.10 ft CA	---	75.00°F	81.84°F
50%	176.00 TR	75.30 kW	0.43 kW	28.04 Btu/W.h	30.90 ft CA	---	65.00°F	69.45°F
25%	88.00 TR	42.50 kW	0.48 kW	24.84 Btu/W.h	31.00 ft CA	---	65.00°F	67.26°F

NPLV (SI) (AHRI 550/590)

Load %	Cooling Capacity	Input Power	Cooling	Cooling COP	Evap. WPD		EWT	LWT
100%	1,230.95 kW	214.70 kW	0.61 kW/TR	5.73 W/W	72.33 kPa	---	12.22 °C	6.67 °C
75%	924.97 kW	138.70 kW	0.53 kW/TR	6.66 W/W	72.63 kPa	---	10.83 °C	6.67 °C
50%	615.48 kW	75.50 kW	0.43 kW/TR	8.16 W/W	73.23 kPa	---	9.44 °C	6.67 °C
25%	309.50 kW	42.50 kW	0.49 kW/TR	7.25 W/W	73.53 kPa	---	8.06 °C	6.67 °C

Load %	Cooling Capacity	Input Power	Cooling	Cooling COP	Cond. WPD		EWT	LWT
100%	1,230.95 kW	214.70 kW	0.61 kW/TR	5.73 W/W	76.82 kPa	---	29.44 °C	35.00 °C
75%	924.97 kW	138.70 kW	0.53 kW/TR	6.66 W/W	78.61 kPa	---	23.89 °C	27.97 °C
50%	615.48 kW	75.50 kW	0.43 kW/TR	8.16 W/W	80.70 kPa	---	18.33 °C	20.99 °C
25%	309.50 kW	42.50 kW	0.49 kW/TR	7.25 W/W	81.00 kPa	---	18.33 °C	19.68 °C

Performance calculated in accordance with AHRI Standards 550/590 (I-P) and AHRI 551/591 (SI).

NPLV (IP) (AHRI 550/590)

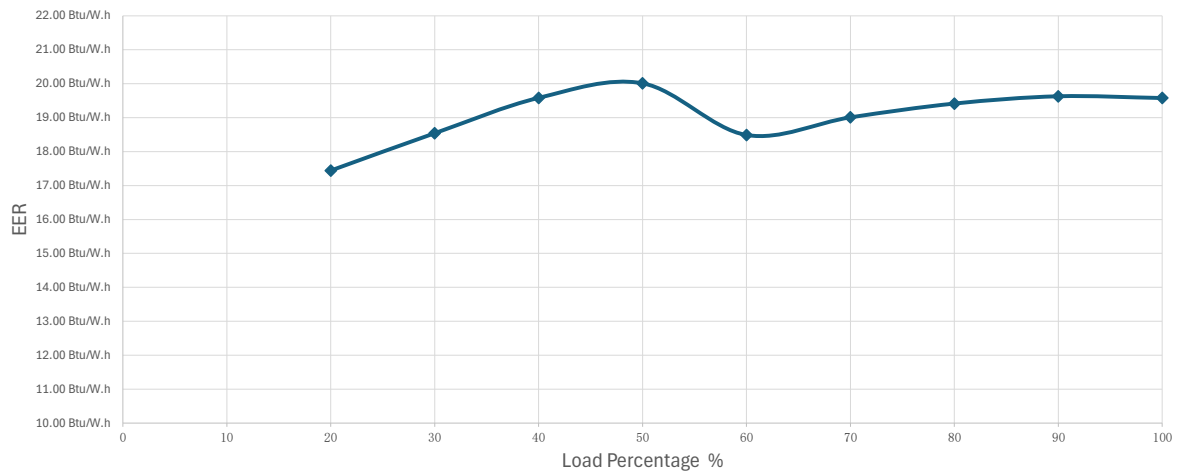
Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Evap. WPD		EWT	LWT
100%	350.00 TR	214.70 kW	0.61 kW/TR	19.58 Btu/W.h	24.20 ft CA	---	54.00°F	44.00°F
75%	263.00 TR	138.70 kW	0.53 kW/TR	22.73 Btu/W.h	24.30 ft CA	---	51.50°F	44.00°F
50%	175.00 TR	75.50 kW	0.43 kW/TR	27.85 Btu/W.h	24.50 ft CA	---	49.00°F	44.00°F
25%	88.00 TR	42.50 kW	0.48 kW/TR	24.75 Btu/W.h	24.60 ft CA	---	46.50°F	44.00°F

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	Cond WPD		EWT	LWT
100%	350.00 TR	214.70 kW	0.61 kW/TR	19.58 Btu/W.h	25.70 ft CA	---	85.00°F	95.00°F
75%	263.00 TR	138.70 kW	0.53 kW/TR	22.73 Btu/W.h	26.30 ft CA	---	75.00°F	82.35°F
50%	175.00 TR	75.50 kW	0.43 kW/TR	27.85 Btu/W.h	27.00 ft CA	---	65.00°F	69.78°F
25%	88.00 TR	42.50 kW	0.48 kW/TR	24.75 Btu/W.h	27.10 ft CA	---	65.00°F	67.42°F

Ten Points Parameters(Constant Condenser Entering Water Temperature)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	EVAPORATOR (WPD --- Kpa)		Condenser (WPD --- Kpa)	
					EWT	ELWT	EEWT	ELWT
100	350.00 TR	214.70 kW	0.61 kW/TR	19.58 Btu/W.h	54.00°F	44.00°F	85.00°F	95.00°F
90	315.00 TR	192.70 kW	0.61 kW/TR	19.63 Btu/W.h	53.00°F	44.00°F	85.00°F	94.00°F
80	280.00 TR	173.20 kW	0.62 kW/TR	19.42 Btu/W.h	52.00°F	44.00°F	85.00°F	93.01°F
70	245.00 TR	154.80 kW	0.63 kW/TR	19.01 Btu/W.h	51.00°F	44.00°F	85.00°F	92.03°F
60	210.00 TR	136.40 kW	0.65 kW/TR	18.49 Btu/W.h	50.00°F	44.00°F	85.00°F	91.05°F
50	175.00 TR	105.00 kW	0.60 kW/TR	20.01 Btu/W.h	49.00°F	44.00°F	85.00°F	89.98°F
40	140.00 TR	85.90 kW	0.61 kW/TR	19.58 Btu/W.h	48.00°F	44.00°F	85.00°F	89.00°F
30	105.00 TR	68.00 kW	0.65 kW/TR	18.54 Btu/W.h	47.00°F	44.00°F	85.00°F	88.02°F
20	70.00 TR	48.20 kW	0.69 kW/TR	17.44 Btu/W.h	46.00 °F	44.00 °F	85.00 °F	87.04°F
10	-	-	-	-	-	-	-	-

Ten Points Parameters(Constant Condenser Entering Water Temperature.)



Ten Points Parameters(Variable Condenser Water Temperature)

Load %	Cooling Capacity	Input Power	Cooling	Cooling EER	EVAPORATOR (WPD --- Kpa)		Condenser (WPD --- Kpa)	
					EWT	ELWT	EEWT	ELWT
100	350.00 TR	215.00 kW	0.61 kW/TR	19.57 Btu/W.h	54.00°F	44.00°F	85.00°F	95.00°F
90	315.00 TR	180.00 kW	0.57 kW/TR	21.04 Btu/W.h	53.00°F	44.00°F	81.00°F	89.91°F
80	280.00 TR	151.00 kW	0.54 kW/TR	22.23 Btu/W.h	52.00°F	44.00°F	77.00°F	84.86°F
70	245.00 TR	127.00 kW	0.52 kW/TR	23.19 Btu/W.h	51.00°F	44.00°F	73.00°F	79.84°F
60	210.00 TR	105.00 kW	0.50 kW/TR	24.04 Btu/W.h	50.00°F	44.00°F	69.00°F	74.84°F
50	175.00 TR	76.00 kW	0.43 kW/TR	27.87 Btu/W.h	49.00°F	44.00°F	65.00°F	69.78°F
40	140.00 TR	63.00 kW	0.45 kW/TR	26.91 Btu/W.h	48.00°F	44.00°F	65.00°F	68.84°F
30	105.00 TR	50.00 kW	0.47 kW/TR	25.48 Btu/W.h	47.00°F	44.00°F	65.00°F	67.90°F
20	70.00 TR	35.00 kW	0.50 kW/TR	24.11 Btu/W.h	46.00 °F	44.00 °F	65.00 °F	66.94 °F
10	-	-	-	-	-	-	-	-

Ten Points Parameters(Variable Condenser Water Temperature.)

