

Instructions:

MODEL



### SUBMITTAL DATA SHEET - CW-80 WITH MULTI-MAGIC CONTROLS

QUIANTITY

Job Name:

Order No.:

Contractor:

Project Manager:

Submitted To:

Date:

Special

Location:

Contractor:

Engineer:

Submitted By:

Asset ID:

MIUDEL		QUANTITY				
CW-80 IEC Stand	lard Fans					
CW-80 Supercool	Standard Fans					
CW-80 IEC High-	CW-80 IEC High-Capacity Fans					
CW-80 Supercool	High-Capacity Fans					
COOLING APPLICAT	TION					
Standalone	Pre-Cooling	Supplementary				
DESIGN CONDITION Outdoor Ambient Con						
Dry Bulb		°F				
Wet Bulb		°F				
Elevation Above Sea	Level	ft				
Fan Duty Point:						
Supply Air Volume		cfm				
External Static Pressu	ure	in.wg				
Performance:						
Supply Air Temperatu	ıre	°F				
Pre-Cooling Capacity		BTU/hr				

#### OPTIONAL ACCESSORIES QUANTITY

MERV13 Airfilters

Multi-Magic Wall Controller

Room Temperature & Humidity Sensor

Ambient Temperature & Humidity Sensor

Duct Temperature & Humidity Sensor

Differential Pressure Sensor

S	TA	ND	ARD	FEA.	TURES	ì
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- ✓ Indirect Evaporative Cooling
- ✓ Patented high technology CW Indirect Cooling cores.
- Fresh, outside air for better indoor air quality (IAQ).
- ✓ No refrigerants or ozone depleting chemicals.
- Quiet and vibration free operation.
- Filtered air with reduced dust, pollens and allergens
- ✓ High EER (Energy Efficiency Ratio).
- Horizontal side discharge for conditioned air.
- Top discharge for exhaust air.
- Low maintenance, simple winterization
- ✓ Integrated PLC for internal control
- ✓ Integrated water management system.
- Removable panels for easy maintenance access.
- ✓ Easy to connect power/control wiring.
- **✓** BMS/BAS control terminals
- Modbus RS-485 control terminals
- 2x Backward-curved centrifugal supply fans
- 4x Backward-curved centrifugal exhaust fans
- ✓ Direct coupled EC fan motors.
- Molded plastic (ASA) water tank.
- **✓** Base frame manufactured with galvanized steel.
- Cabinet manufactured from 304 stainless steel.
- Built-in forklift tyne openings for lifting the cooler.
- ✓ 1-year limited warranty.
- ✓ ETL Listed to UL Standard 507





#### **GENERAL**

Climate Wizard coolers are characterized by the supply of 100% fresh, cool, outside air with NO additional moisture added, with greatly reduced energy consumption relative to an equivalent refrigerated system performing the same duty.

The coolers comprise of two supply air fans, four exhaust air fans, an indirect heat exchanger pack, integrated water reservoir, pump, and chlorinator system.

CW-80S can be operated in "Supercool" mode producing even colder supply air with added moisture (direct cooling). Supercool coolers have an additional pump and Chillcel® pads.

#### **CABINET**

The cabinet is constructed from 304 stainless steel incorporating the motor / fan assemblies, non-corrodible heat exchange cores and other ancillary equipment all supported by a heavy gauge galvanized base frame for structural stability.

Fork lift tine channels are provided within the base frame to facilitate transport and lifting.

Components are effectively treated to ensure corrosion resistance and mechanical fasteners are zinc coated, stainless steel or aluminum.

Connection interface surfaces are provided for the outlet supply air ductwork to be fitted using established industry practices.

#### **FANS & MOTORS**

The fans are a multi-blade, centrifugal type with backward curved blades. They have a cast aluminum coated rotor and aluminum impellers which are individually statically and dynamically balanced. The fans are directly mounted to the electric motors.

The electric motors are high efficiency, inverter driven and responsive to 0-10V control signals to implement speed control that delivers optimum efficiency at lower speed operation.

#### **HEAT EXCHANGE CORE**

The heat exchange cores are designed to facilitate heat exchange between the wet air passages and the dry air passages such that high efficiency heat transfer takes place without any additional moisture.

They are designed to provide long life and consistent, long term high efficiency.

Supercool models are fitted with additional Chillcel® fabricated, honeycomb direct cooling pads.

#### WATER MANAGEMENT SYSTEM

The water supply connection is a ¾" fitting that connects directly to the internally mounted solenoid valve.

Water is held in an internal reservoir manufactured from molded polymer to ensure durability and corrosion resistance.

Heat exchange core saturation is achieved through internally mounted pumps delivering water to a specially designed non-clog water distribution system guaranteeing continuous uniform flow.

The wet components of each pump are manufactured from stainless steel and the pumps are driven by a 3-phase industrial, fully enclosed fan cooled electric motor with thermal overload protection. Easily cleanable in line strainers are provided for both the incoming water supply and the water distribution system.

An electronic water management system controls the maximum salinity level and chlorination of the reservoir water through continuous monitoring and replenishment.

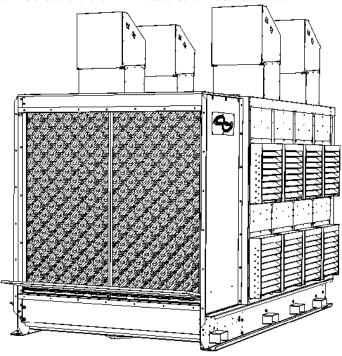
The reservoir is drained by an electric drain valve that responds to the water management control system. The design of the reservoir ensures that no water remains after draining.

#### **AIR FILTERS**

Intake air is filtered through aluminum framed, washable pleated filters protected by intake louvers to minimize intrusion of rain.

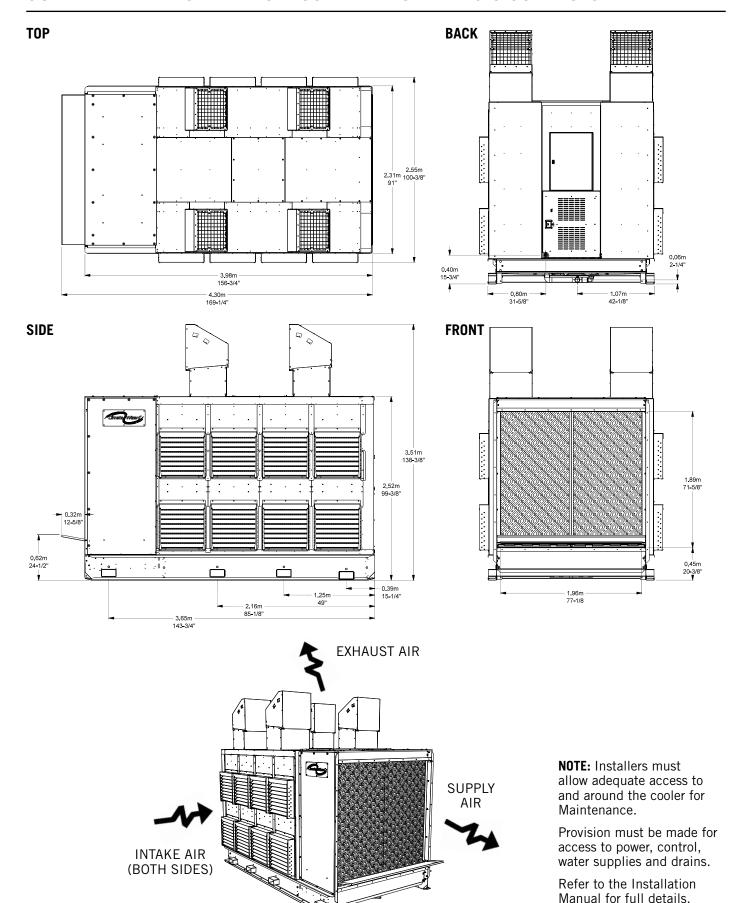
#### **APPROVALS**

CW-80 coolers are ETL Listed to UL Standard 507



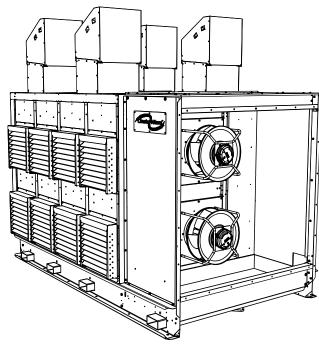






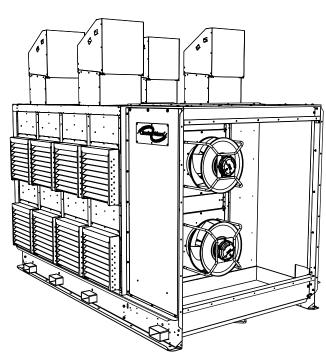






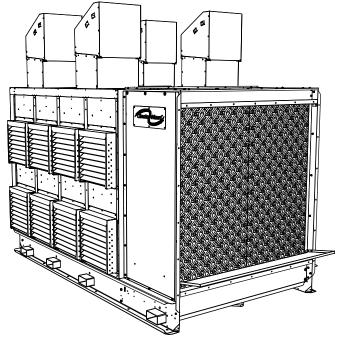
#### **CW-80 IEC STANDARD CAPACITY FANS**

- Primary Indirect Evaporative Cooling Stage
- No added Moisture



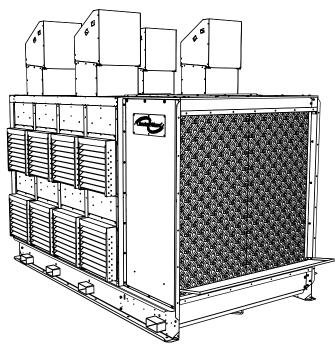
#### **CW-80 IEC HIGH CAPACITY FANS**

- Primary Indirect Evaporative Cooling Stage
- No added Moisture
- Highest External Static Pressure Capacity



#### **CW-80 SUPERCOOL STANDARD CAPACITY FANS**

- Primary Indirect Evaporative Cooling Stage
- Secondary Direct Evaporative Cooling Stage
- Highest Energy Efficiency

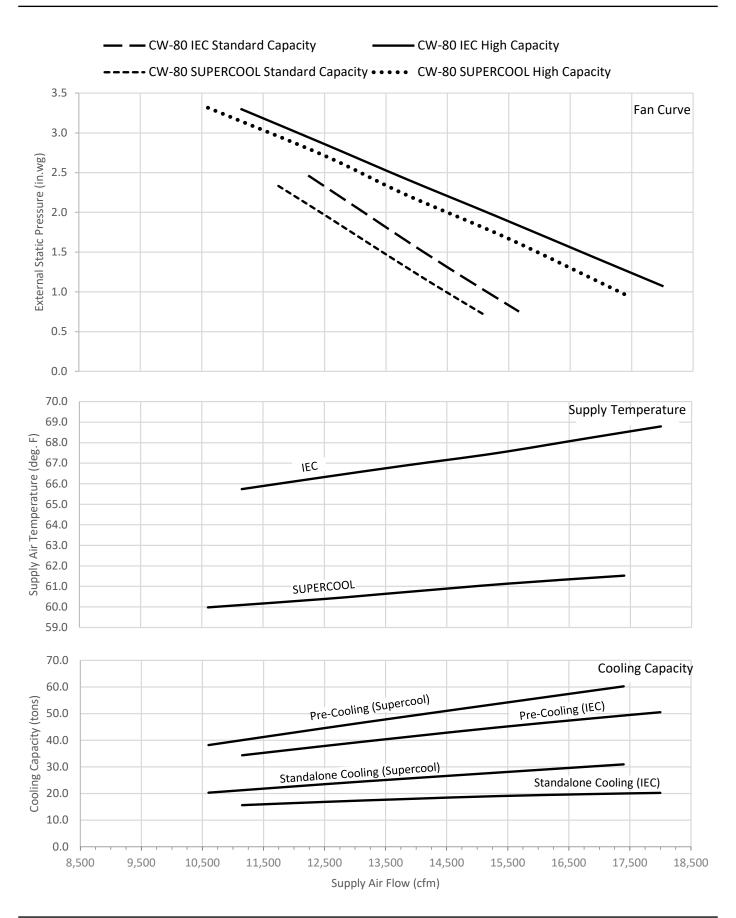


#### **CW-80 SUPERCOOL HIGH CAPACITY FANS**

- Primary Indirect Evaporative Cooling Stage
- Secondary Direct Evaporative Cooling Stage
- Highest Cooling Capacity









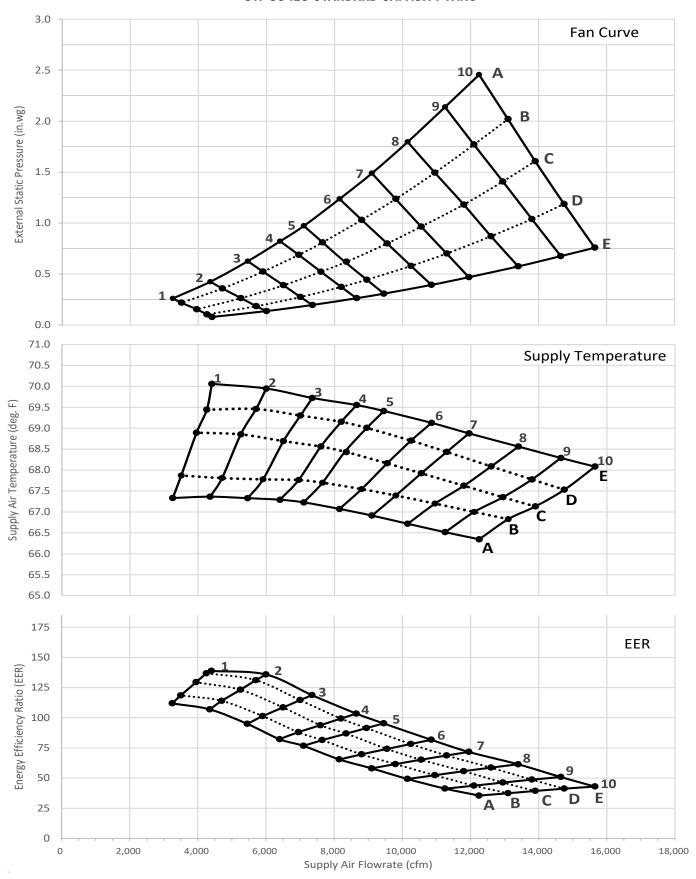


MODEL:			CW-80 IEC Standard Capacity Fans	CW-80 SUPERCOOL STANDARD CAPACITY FANS
		Voltage	440-480 V / 3~ / 50-60Hz	440-480 V / 3~ / 50-60Hz
		Voltage		
		FLA	23 A	24 A
	Electrical	MCA	24 A	25 A
		MOPD	25 A	25 A
		Input Power	12.5 kW	12.5 kW
SERVICES		Supply	8 GPM MINIMUM 12 GPM RECOMMENDED @ 15 PSI - 145 PSI	8 GPM MINIMUM 12 GPM RECOMMENDED @ 15 PSI - 145 PSI
	Water	Max Temperature	105 °F	105 °F
		Inlet	3/4" Male BSP	3/4" Male BSP
		Drain	2" Flexible Coupling	2" Flexible Coupling
		Drain Flow Rate	10.5 GPM	10.5 GPM
	Duct	Supply Air	Side Discharge 74 x 81"	Side Discharge 74 x 81"
	Connections	Exhaust Air	4x Top Discharge Vents	4x Top Discharge Vents
ENVIRONMENT	Maximum Inle	et Air Temperature	120 °F	120 °F
		Fan	2x 560mm Centrifugal	2x 560mm Centrifugal
	Supply Air	Motor	3.5 kW	3.5 kW
	Supply Air Fan/Motor	Control	Variable Speed, ECM, 0-10V	Variable Speed, ECM, 0-10V
		Maximum Speed	1750 rpm	1750 rpm
	Exhaust Air Fan/Motor	Fan	4x 355mm Centrifugal	4x 355mm Centrifugal
AIR SYSTEMS		Motor	1.7 kW	1.7 kW
		Control	Variable Speed, ECM, 0-10V	Variable Speed, ECM, 0-10V
		Maximum Speed	2600 rpm	2600 rpm
	Air Filters	Inlet	16x MERV 8 Washable 25" x 25" x 2"	16x MERV 8 Washable 25" x 25" x 2"
HEAT	Indirect Evap	orative	16 Cores	16 Cores
<b>EXCHANGERS</b>	Direct Evapor	ative	NONE	2 Chillcel Pads
	Tank (Reservo	oir) Capacity	48 Gal	48 Gal
	Inlet Valve		24 VAC Solenoid Valve	24 VAC Solenoid Valve
	Pump Indirect Heat Exchangers		1x 20 GPM @ 81 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.75 kW	1x 20 GPM @ 81 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.75 kW
WATER SYSTEMS	Pump Direct Heat Exchangers		NONE	1x 10 GPM @ 45 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.25 kW
	Salinity Mana	gement	Conductivity Probe	Conductivity Probe
	Chlorinator		230V, 50-60Hz	230V, 50-60Hz
	Drain Valve		12 VAC Vertical	12 VAC Vertical
DIMENSIONS	Shipping	Note: Exhaust Fans/ Motors, Weatherseals	157" Long, 91" Wide, 101" High	157" Long, 91" Wide, 101" High
PINIENSIUNS	Operating	& Filters shipped loose.	157" Long, 101" Wide, 139" High	157" Long, 101" Wide, 139" High
WEIGHT	Shipping	exc. Loose items	4,400 lb	4,650 lb
WEIGHT	Operating	inc. Water & Extras	5,950 lb	6,300 lb





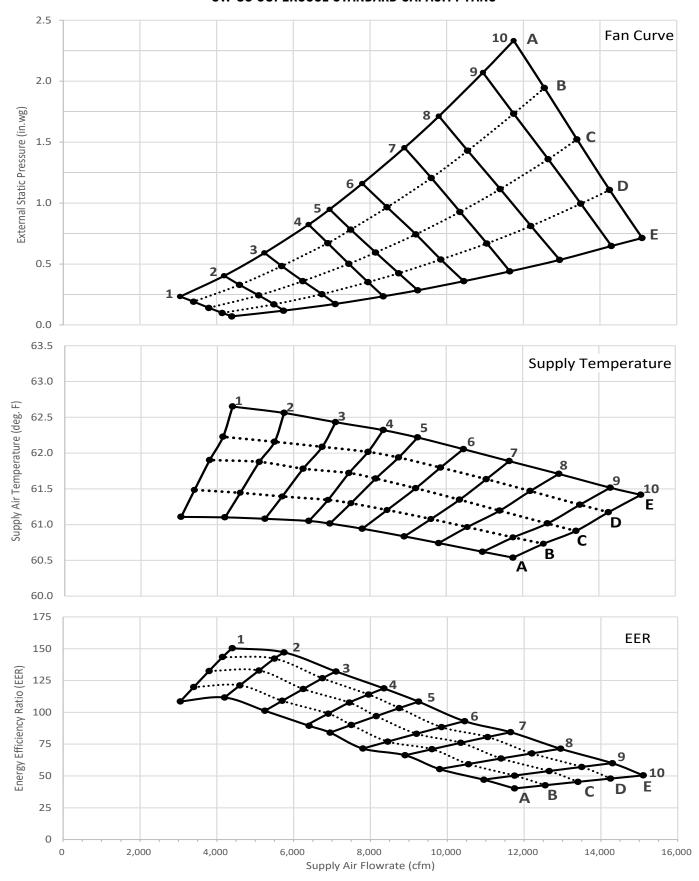
#### **CW-80 IEC STANDARD CAPACITY FANS**







#### **CW-80 SUPERCOOL STANDARD CAPACITY FANS**







CW-80 IEC STANDARD CAPACITY SPEED 10 PERFORMANCE SUMMARY*						
	Α	В	С	D	E	
EXTERNAL STATIC PRESSURE (IN. WG)	2.5	2.0	1.6	1.2	0.8	
SUPPLY AIR FLOWRATE (CFM)	12,250	13,100	13,900	14,750	15,650	
IEC SUPPLY TEMPERATURE (°F)	66.3	66.8	67.1	67.5	68.1	
STANDALONE COOLING CAPACITY (BTU/HR)	197,800	204,800	212,700	219,300	223,400	
PRE-COOLING CAPACITY (BTU/HR)	445,200	469,300	493,400	517,200	539,500	
INPUT POWER (KW)	12.5	12.5	12.5	12.5	12.5	
STANDALONE EER	16	16	17	18	18	
PRE-COOLING EER	38	39	41	43	43	
WATER CONSUMPTION (GPH)	63	65	66	67	69	

CW-80 SUPERCOOL STANDAR	CW-80 SUPERCOOL STANDARD CAPACITY SPEED 10 PERFORMANCE SUMMARY*						
	Α	В	С	D	E		
EXTERNAL STATIC PRESSURE (IN. WG)	2.3	1.9	1.5	1.1	0.7		
SUPPLY AIR FLOWRATE (CFM)	11,750	12,550	13,400	14,250	15,100		
IEC SUPPLY TEMPERATURE (°F)	66.6	67.0	67.4	67.8	68.2		
SUPERCOOL SUPPLY TEMPERATURE (°F)	60.5	60.7	60.9	61.2	61.4		
STANDALONE COOLING CAPACITY (BTU/HR)	263,500	278,800	295,100	309,800	324,300		
PRE-COOLING CAPACITY (BTU/HR)	500,800	532,200	565,700	597,500	629,200		
INPUT POWER (KW)	12.5	12.5	12.5	12.5	12.5		
STANDALONE EER	21	22	24	25	26		
PRE-COOLING EER	40	43	45	48	50		
WATER CONSUMPTION (GPH)	67	70	73	75	78		

 $<sup>^{\</sup>star}$  Leaving Air Temperatures, Cooling Capacities and Water Consumption valid at design condition of: 100 °F dry-bulb, 70 °F wet-bulb, 81.3 °F relief temperatures

	INPUT POWER (KW)						
SPEED	CW-80 IEC Standard Capacity	CW-80 SUPERCOOL STANDARD CAPACITY	SPEED	CW-80 IEC Standard Capacity	CW-80 SUPERCOOL STANDARD CAPACITY		
10	12.5	12.5	5	3.3	3.5		
9	9.9	9.9	4	2.8	2.9		
8	7.4	7.5	3	2.0	2.2		
7	5.6	5.7	2	1.4	1.6		
6	4.4	4.6	1	1.0	1.2		





MODEL:			CW-80 IEC	CW-80 SUPERCOOL
		I v	HIGH CAPACITY FANS	HIGH CAPACITY FANS
		Voltage	440-480 V / 3~ / 50-60Hz	440-480 V / 3~ / 50-60Hz
		FLA	25 A	26 A
	Electrical	MCA	27 A	28 A
		MOPD	30 A	30 A
		Input Power	14.5 kW	14.5 kW
SERVICES		Supply	8 GPM MINIMUM 12 GPM RECOMMENDED @ 15 PSI - 145 PSI	8 GPM MINIMUM 12 GPM RECOMMENDED @ 15 PSI - 145 PSI
	Water	Max Temperature	105 °F	105 °F
		Inlet	3/4" Male BSP	3/4" Male BSP
		Drain	2" Flexible Coupling	2" Flexible Coupling
		Drain Flow Rate	10.5 GPM	10.5 GPM
	Duct	Supply Air	Side Discharge 74 x 81"	Side Discharge 74 x 81"
	Connections	Exhaust Air	4x Top Discharge Vents	4x Top Discharge Vents
ENVIRONMENT	Maximum Inle	et Air Temperature	120 °F	120 °F
		Fan	2x 560mm Centrifugal	2x 560mm Centrifugal
	Supply Air	Motor	4.25 kW	4.25 kW
	Fan/Motor	Control	Variable Speed, ECM, 0-10V	Variable Speed, ECM, 0-10V
		Maximum Speed	1750 rpm	1750 rpm
AIR SYSTEMS	Exhaust Air Fan/Motor	Fan	4x 355mm Centrifugal	4x 355mm Centrifugal
AIR STSTEINS		Motor	1.7 kW	1.7 kW
		Control	Variable Speed, ECM, 0-10V	Variable Speed, ECM, 0-10V
		Maximum Speed	2600 rpm	2600 rpm
	Air Filters	Inlet	16x MERV 8 Washable 25" x 25" x 2"	16x MERV 8 Washable 25" x 25" x 2"
HEAT	Indirect Evap	orative	16 Cores	16 Cores
EXCHANGERS	Direct Evapor	ative	NONE	2 Chillcel Pads
	Tank (Reservo	ir) Capacity	48 Gal	48 Gal
	Inlet Valve		24 VAC Solenoid Valve	24 VAC Solenoid Valve
	Pump Indirect Heat Exchangers		1x 20 GPM @ 81 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.75 kW	1x 20 GPM @ 81 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.75 kW
WATER SYSTEMS	Pump Direct Heat Exchangers		NONE	1x 10 GPM @ 45 ft Head 440-480V / 3~ / 50-60 Hz Input Power 0.25 kW
	Salinity Mana	gement	Conductivity Probe	Conductivity Probe
	Chlorinator		230V, 50-60Hz	230V, 50-60Hz
	Drain Valve		12 VAC Vertical	12 VAC Vertical
DIMENSIONS	Shipping	Note: Exhaust Fans/ Motors, Weatherseals	157" Long, 91" Wide, 101" High	157" Long, 91" Wide, 101" High
Dimensions	Operating	& Filters shipped loose.	157" Long, 101" Wide, 139" High	157" Long, 101" Wide, 139" High
WEIGHT	Shipping	exc. Loose items	4,400 lb	4,650 lb
	Operating	inc. Water & Extras	5,950 lb	6,300 lb





# **CW-80 IEC HIGH CAPACITY FANS** 3.5 Fan Curve 3.0 External Static Pressure (in.wg) 2.0 1.5 1.0 0.5 0.0 78 **Supply Temperature** 76 Supply Air Temperature (deg. F) 74 72 70 68 66 64 150 **EER** Energy Efficiency Ratio (EER) 125 100 75 50 25

0

2,000

4,000

6,000

10,000

Supply Air Flowrate (cfm)

12,000

14,000

16,000

8,000

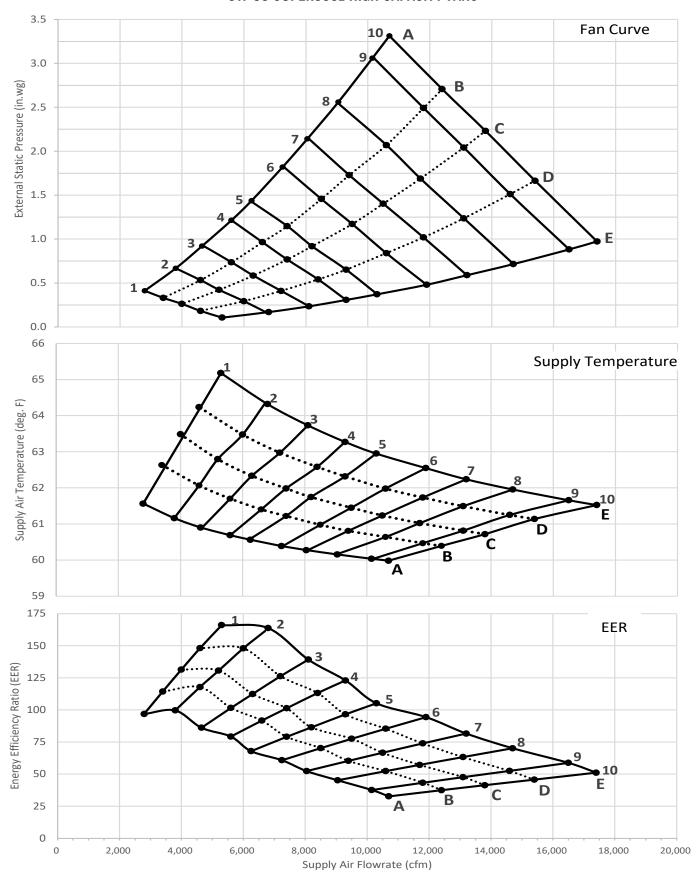
20,000

18,000





#### **CW-80 SUPERCOOL HIGH CAPACITY FANS**







CW-80 IEC HIGH CAPACITY SPEED 10 PERFORMANCE SUMMARY*							
	Α	В	C	D	E	F	
EXTERNAL STATIC PRESSURE (IN. WG)	3.3	2.9	2.4	2.0	1.4	1.1	
SUPPLY AIR FLOWRATE (CFM)	11,150	12,500	13,850	15,300	16,850	18,000	
IEC SUPPLY TEMPERATURE (°F)	65.7	66.3	66.9	67.5	68.2	68.8	
STANDALONE COOLING CAPACITY (BTU/HR)	187,400	202,200	215,400	228,300	237,700	243,200	
PRE-COOLING CAPACITY (BTU/HR)	412,600	454,600	495,200	537,300	578,000	606,700	
INPUT POWER (KW)	14.2	14.2	14.2	14.2	14.2	14.2	
STANDALONE EER	13	14	15	16	17	17	
PRE-COOLING EER	29	32	35	38	41	43	
WATER CONSUMPTION (GPH)	62	65	67	70	71	73	

CW-80 SUPERCOOL HIGH CAPACITY SPEED 10 PERFORMANCE SUMMARY*						
	Α	В	C	D	E	
EXTERNAL STATIC PRESSURE (IN. WG)	3.3	2.7	2.2	1.7	1.0	
SUPPLY AIR FLOWRATE (CFM)	10,600	12,500	13,800	15,500	17,400	
IEC SUPPLY TEMPERATURE (°F)	65.5	66.3	66.9	67.7	68.4	
SUPERCOOL SUPPLY TEMPERATURE (°F)	60.0	60.4	60.7	61.1	61.5	
STANDALONE COOLING CAPACITY (BTU/HR)	244,100	282,300	306,800	337,500	371,600	
PRE-COOLING CAPACITY (BTU/HR)	458,100	534,700	585,500	650,600	723,000	
INPUT POWER (KW)	14.2	14.2	14.2	14.2	14.2	
STANDALONE EER	17	20	22	24	26	
PRE-COOLING EER	32	38	41	46	51	
WATER CONSUMPTION (GPH)	70	74	78	82	88	

 $<sup>^{\</sup>star}$  Leaving Air Temperatures, Cooling Capacities and Water Consumption valid at design condition of: 100 °F dry-bulb, 70 °F wet-bulb, 81.3 °F relief temperatures

	INPUT POWER (KW)						
SPEED	CW-80 IEC High Capacity	CW-80 SUPERCOOL HIGH CAPACITY	SPEED	CW-80 IEC HIGH CAPACITY	CW-80 SUPERCOOL HIGH CAPACITY		
10	14.2	14.2	5	3.8	3.9		
9	11.6	11.6	4	2.9	3.0		
8	8.2	8.6	3	2.1	2.3		
7	6.4	6.6	2	1.4	1.6		
6	5.0	5.1	1	1.0	1.2		





#### **OPTIONS, FEATURES & ACCESSORIES**

Multi-Magic® coolers are supplied with a series of interface terminals inside the electrical enclosure for use with additional accessories.

ITEM	ID	ТҮРЕ
	+	
MODBUS	1	RS-485 MODBUS Communication for Wall Controller or 3rd Party Master
	GND	ountroller of oral rarry master
POWER	24Vdc	DC Power Supply for Wall Controller,
SUPPLY	OVdc	Sensors or BMS
	S1	
	S2	
MULTI-MAGIC SENSORS (sold	\$3	Flexible Sensor Inputs for use with
separately)	S4	Optional Sensors. See next page.
	<b>S</b> 5	
	\$6	
FANI CTATUS	FAN STS	Fan Run Output. Relay Output Dry
FAN STATUS	FAN COM	Contact, Adjustable Timer
FIRE	FIRE	Fire Terminals. Bridge to Run.
TIKE	FIRE	The ferminals. Bridge to Kull.

Multi-Magic® coolers can be controlled via 4 different methods

#### **OPTION 1: BUILDING MANAGEMENT SYSTEM (BMS)**

Multi-Magic® coolers are supplied with a series of low voltage BMS Interface Terminals to allow external devices, such as 3rd party controllers, to control the basic functions of the cooler.

ITEM	ID	TYPE
	IEC	Digital Input Dry Contact
	DEC	Digital Input Dry Contact
BMS	SPD	Speed: Analogue Input 0-10Vdc
	ERR	Error: Relay Output Dry Contact. Configurable NO/NC
	GND	GND

#### **OPTION 2: MULTI-MAGIC WALL CONTROLLER**

(sold separately)

- MODBUS RS-485 to control up to 15 Devices
- Temperature & Relative Humidity Sensors
- Manual IEC, Supercool & Fan Speed Control
- Thermostatic Speed Control
- Supercool Humidity Setpoint
- 7-Day Thermostatic Program
- Room Sensor Averaging
- Ambient Condition Monitoring
- Min & Max Fan Speed Limits
- Screen Security Lock
- Auto-Restart Function
- Device Fault History
- English, Spanish, French, Italian, Portuguese

#### OPTION 3: RS-485 MODBUS PRIMARY

Modbus Registers are available for controlling and monitoring the basic functions of the connected coolers.

REGISTER		TYPE	DETAILS
		COM	IMANDS
9200	UINT	Bit 0	IEC Enable
		Bit 1	DEC Enable
		Bit 2	Fault Reset
		Bit 3	Manual Drain
9201	UINT	0-1000	Supply Fan Speed (0-100%)
		S	TATUS
9205	UINT	Bit 0	Fault State
		Bit 1	Low Probe WET
		Bit 2	High Probe WET
		Bit 3	Inlet Solenoid Valve OPEN
		Bit 4	Drain Valve OPEN
		Bit 5	Indirect Pump RUNNING
		Bit 6	Direct Pump RUNNING
		Bit 7	Chlorinator RUNNING
9206	UINT	0-100	Supply Fan Speed (0-100%)
9207	UINT	0-6615	Water Salinity Level
9208	UINT	0-100	Chlorinator Output (%)
9209	UINT		Fault Code
9210 to 9215	INT	S1 to S6	Sensor Values depend on sensor type Temperature °F/10 Relative Humidity %/10 Pressure inwg/100
9216	UNIT	0-100	Exhaust Fan Speed (0-100%)

#### **OPTION 4: BACNET MS/TP OR BACNET IP**

BACnet objects are available for controlling and monitoring the basic functions of the connected coolers.

OBJECT	DETAILS			
COMMANDS				
CMD_IEC	IEC Enable			
CMD_DEC	DEC Enable			
CMD_Spd	0 to 10 Fan Speed			
CMD_Drain	Manual Drain			
BCN_CMD_ON_OFF	Cooler Run			
CMD_FaultReset	Reset Fault Codes			
STATUS				
STSIEC	IEC Pump RUNNING			
STSDEC	DEC Pump RUNNING			
STSERROR	Fault			
STSLowProbe	Low Probe WET			
STSHighProbe	High Probe WET			
STSSolenoid	Inlet Solenoid OPEN			
STSDrain	Drain Valve OPEN			
STSChlorinator	Chlorinator RUNNING			
STSSupplyFSpd	Supply Fan Speed Range 0 to 10			
STSSalinity	Water Salinity Level (uS/cm)			
STSFaultCode	Fault Code.			
STSExhaustFSpd	Supply Fan Speed (Vdc)			
STSensor1				
STSensor2	Sensor Values depend on sensor type			
STSensor3	Ambient Sensor Temperature -40 to 158°F Room & Duct Sensor Temperature 32 to 122°F Relative Humidity 0 to 100 % Pressure Sensor 0 to 2.00 inwg			
STSensor4				
STSensor5				
STSensor6				





#### **OPTIONAL SENSORS ACCESSORIES**

(sold separately)

For all sensors:

Operating Voltage DC 24V Signal Output DC 0...10 V Accuracy at 73°F and 50% r.h.

Temperature: ± 0.3K Relative Humidity: ± 3% r.h.

Pressure ± 1%

Each CW-80 cooler had six sensors inputs, configured in pairs, for use with the following optional sensors. All sensor value are readable by Building Management Systems (Low Voltage, Modbus or BACnet).

#### **ROOM SENSOR**

Temperature Range +32...+122°F

Relative Humidity Range 0...100% r.h.

**IP30** 



When used in conjunction with the Multi-Magic® Wall Controller:

- Allows the Wall Controller to be located safely away from the conditioned space. Wall Controller sensor values are disabled and only Room Sensor used for setpoint control.
- Multiple Room Sensor values from multiple coolers be average together to provide an overall temperature and relative humidity ales for larger spaces.

#### **AMBIENT SENSOR**

Temperature Range -40...+158°F

Relative Humidity Range 0...100% r.h.

Radiation Shield IP65



- Ambient Condition Monitoring mode uses advanced formulas to calculate a predicted supply temperature. Coolers are disabled if the predicted supply temperature is greater than the current room temperature.
- Particularly suitable for applications which require room temperatures less than 68 °F



Temperature Range +32...+122°F

Relative Humidity Range 0...100% r.h.

IP54

3.5", max 6"

Probe length inside duct min.



Can be used by Building Management Systems (Low Voltage, Modbus or BACnet) to monitor cooler supply air conditions.

#### **DIFFERENTIAL PRESSURE SENSOR**

Pressure Range 0...+2.00 inwg.

**IP66** 

LCD Display

Includes Static Pressure Tip Angled tip, 4" insertion depth.



Can be used by Building Management Systems (Low Voltage, Modbus or BACnet) to monitor pressure drops.