

SmartRack 60 kWh 208–230V 50/60 Hz In-Row Precision Cooler, Chilled Water Type

MODEL NUMBER: SRCOOL60KCW



Specifications

INPUT	
Nominal Input Voltage(s) Supported	208V AC; 230V AC
Electrical Consumption	2410 Watt Max
Maximum Input Amps	12.6
Input Connection Type	5 POLE TERMINAL BLOCK, 300 VOLTS, 30 AMPS
Input Frequency	50/60 Hz
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Multi-line LCD control panel
PHYSICAL	
Shipping Dimensions (hwd / in.)	86.02 x 17 x 50.4
Shipping Dimensions (hwd / cm)	218.49 x 43.18 x 128.02
Shipping Weight (lbs.)	555.57
Shipping Weight (kg)	252
Unit Dimensions (hwd / in.)	78.74 x 11.81 x 42.91
Unit Dimensions (hwd / cm)	200 x 30 x 108.99
Unit Weight (lbs.)	416.67



Unit Weight (kg)	189.00
Material of Construction	Steel/Aluminum
Color	Black
ENVIRONMENTAL	
Storage Temperature Range	-15 DEG C to 65 DEG C
Operating Elevation (ft.)	0 to 6561.8
Operating Temperature	4 DEG C to 50 DEG C
Cooling Capacity	204,000 BTU / 60 kW
Operating Elevation (m)	0 to 2,000
Operating Humidity Range	5 to 95%
Ambient Operation RH	30% - 85%
Chilled Water Flow Meter (LMP)	10-80 LPM +/- 4%; 81-150 LPM +/- 2%
Range of CHW Inlet Temperature (Celsius)	5-22 DEG C; 5KG/CM2
Fans (Type/Quantity)	54V, 5800 RPM, 825 CFM, Brushless fan, hot-swappable (8)
Condensate Drain Pumps (L/HR)	5 L/HR at 5MM head, (15 M horizontal) @ 60Hz; 5 L/HR at 4.8MM head, (15 M horizontal) @ 50Hz
Condensate Water Drains	Drain pump drain tube, length 1.7M, I.D. 3/8", length cut out of cabinet, 1M
Primary Fan Filters	Aluminum (washable), MERV 1, ASHRAE 52.2
COMMUNICATIONS	
Communications Interface	DB9 Serial; RS485 (+, -, G)
SNMP Compatibility	TLNETCARD
Hotkey	Press UP+DOWN and hold 3 seconds to enter auto mode
Alarm Events	The following will trigger a warning (yellow LED): Filter abnormal, condensate level high, inner communication abnormal, temp/humidity sensor temp high/low, inlet water temp high/low, chiller flow rate high/low, T/RH sensor humidity high/low, NTC temp high/low, run over hours, cooling capacity abnormal
Fault Events	The following will trigger a fault (red LED): Condensate overflow, leak, fire, smoke, T/RH sensor abnormal, NTC abnormal, RTD sensor abnormal, flow meter abnormal, fan abnormal, ball valve abnormal, drain pan full
Input Dry Contact Ports	2 contacts (fire and smoke alarm inputs), 3 second delay to trigger
Output Dry Contact Ports	2 contacts
Systems & Sensors Information	Supply air temp and humidity (SHT15), return air temp and humidity (SHT15), rack inlet temp (NTC) (optional), chilled water flow rate, chilled water inlet and outlet temp, ball valve position rate/feedback, filter clogged (pressure switch)
Controller Area Network (CAN bus)	Supported
SPECIAL FEATURES	
Dehumidifier	2.5 gal/hour
Compressor Type	DC inverter driven variable speed



Refrigerant	R410a (Environmentally friendly, Non ozone depleting)
Refrigerant Amount	8.4lbs
Air Flow	4400 CFM
Amp Draw Nominal	Variable
Sound Level (Noise)	88 DBA @ 4400 CFM @ 1 METER
Air Exhaust Tube Length	98 inches
Air Exhaust Tube Diameter	9.84 inches
CERTIFICATIONS	
Certifications	Tested to UL1995 5th Ed; CSA, RoHS, FCC Class B
WARRANTY	
Product Warranty Period (Worldwide)	1-year limited warranty
MECHANICAL	
Chilled Water Outlet	1 INT, PT/Female
Chilled Water Inlets	1 INCH, PT/Female
OPERATION	
Operation Mode	Stand-by, Auto, Installation, Force, Manual
Supply Air Temperature (Celsius)	18-27 deg. C (limited by heating load)
Glycol Correction Details	Return air temp: 29.4 deg. C DB; 18.1 deg. C WB; Air volume: 4930 M3/H; Temp difference of chilled water 7.2 deg. C; Chilled water flow rate: 62 LPM; Max solution not to exceed 50%
Applied Containment Types	Close/Open
Ball Valve Controls	PID Controller, fuzzy logic support
Fan Controls	By setting return air max flow T, Min flow T, Fan step setting for proportional control
Force Modes	Three-way valve fully opens, fans at full speed, stand by LED flashing
Installation Modes	Three-way valve fully opens, fans at minimum speed, main LED flashing
Manual Modes	Fan speed, ball valve open/closed, back light, buzzer, alarms, chilled pump, LEDs, drain pump, main and stand-by LEDs on solid
Power Redundancies	Dual input with two rectifiers
System Type Selections	Open type (open type initial fan speed is 50%), closed type (closed type initial fan speed is 30%)
Temperature Unit Selections	Deg. C; Deg. F (default is Deg. C)

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