



RPW-120

CHILLED WATER EXTERNAL HEAT REJECTION

The OptiCool RPW-120 system provides best-in-class precision cooling in any mission-critical infrastructure where chilled water is available.

The OptiCool RPW-120 is a highly efficient low-pressure pumped 513a refrigerant system supporting up to 40 Active Heat eXtractor (AHX) units for applications achieving 120 kW of non-condensing 100% sensible cooling. Employing a pumped R-513a solution ensures a highly reliable, oil-free, non toxic, non-conductive, and non corrosive sustainable cooling ecosystem to efficiently extract heat at the source.

The RPW-120 pump is part of a system and requires other OptiCool products for effective heat transfer out of the room.

The RPW-120 system is paired with a chilled water system for its external heat rejection. That chilled water system is typically existing infrastructure with the capacity to handle the additional load for the RPW-120 system, or it can be a new chilled water package provided by a third party.



Specifications

MIN/MAX kW CAPACITY	5 kW / 120 kW
EXTERNAL HEAT REJECTION	CHILLED WATER OR GLYCOL MIX
NUMBER OF AHX SUPPORTED	3 TO 40 PER PUMP
POWER OPTIONS	480 V, 3 Phase, 60Hz 208 V / 230 V, 1 Phase, 60Hz
FULL LOAD AMPS	480 V, 6.5 amp 208 V / 230 V, 16 amp
PUMP DRY WEIGHT	1,300 lb
PUMP DIMENSIONS	30 in x 82 in x 40 in
REFRIGERANT DISTRIBUTION NETWORK EQUIVALENT SUPPLY LENGTH (MAX)	185 ft
COMMUNICATION / MONITORING	MODBUS, BACNET, OR SNMP
CERTIFICATION	ISO 9001
CHILLED WATER FLOW RATE	140 GPM
MAX SUPPLY PRESSURE	100 PSIG
RPW CHILLED WATER DELTA AT FULL LOAD	12°F
CHILLED WATER SUPPLY TEMP	45°F
WATER CONNECTION SIZE	2.5in NOM (2.625in ODF)
ALLOWABLE WATER PRESSURE DIFFERENTIAL	15-75 PSID

Features

-  Assembled in the USA
-  Industry standard hardware and software for easy BMS integration
-  Aesthetic design with flexible location and compact footprint
-  Energy-efficient redundant pump motor, and VFD with automatic changeover
-  System designed with cooling capacity management to effectively handle load change fluctuations
-  Intuitive 10-inch touchscreen controls
-  Dynamic self-balancing pressure independent flow control valve for precise capacity control



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