



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 R-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, nontoxic, 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 uses a chilled water system for external heat rejection. This chilled water system is typically existing facility infrastructure with sufficient capacity to handle the additional load from the RPW-120 system. Alternatively, a new chilled water package may be 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, 60 Hz 208 V / 230 V, 1 Phase, 60 Hz
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 9001-2015
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:	2.5 in. NOM (2.625 in. 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 efficiently 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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