



RPC-230

DIRECT EXPANSION (DX) EXTERNAL HEAT REJECTION

The OptiCool RPC-230 system provides best-in-class precision cooling in any mission-critical where Direct eXpansion (DX) cooling applications are required.

The OptiCool RPC-230 is a highly efficient low-pressure pumped 513a refrigerant system supporting up to 40 Active Heat eXtractor (AHX) units for applications achieving 230 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-230 pump is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each RPC-230 pump also requires an Outdoor Heat eXpansion unit (ODX-230).



Specifications

MIN/MAX kW CAPACITY	22 kW / 230 kW
EXTERNAL HEAT REJECTION	DIRECT EXPANSION (DX) R-410a
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	1,500 lb
PUMP DIMENSIONS	33 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

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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