



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

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|---|--|
| 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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