



# RPW-500

## CHILLED WATER EXTERNAL HEAT REJECTION

The OptiCool RPW-500 system provides best-in-class precision cooling mission-critical infrastructure where chilled water is available.

The OptiCool RPW-500 is a highly efficient low-pressure pumped R-513A refrigerant system supporting high-density applications with up to 500 kW of condensation-free, 100% sensible cooling capacity. Employing a pumped R-513A solution ensures a highly reliable, oil-free, non-toxic, non-conductive, and non-corrosive sustainable cooling ecosystem designed to efficiently extract heat at the source while supporting next-generation high-performance computing and AI environments.

The RPW-500 pump is part of a fully integrated cooling ecosystem and requires other OptiCool products for effective heat transfer out of the room.








The RPW-500 system utilizes the site facility chilled water system for external heat rejection.



### Specifications

<b>EXTERNAL HEAT REJECTION:</b>	CHILLED WATER
<b>CHILLED WATER FLOW RATE:</b>	410 GPM
<b>CHILLED WATER SUPPLY TEMP:</b>	45°F
<b>RPW CHILLED WATER DELTA AT FULL LOAD:</b>	8°F
<b>MAX CHILLED WATER SUPPLY PRESSURE:</b>	150 psig
<b>ALLOWABLE WATER PRESSURE DIFFERENTIAL:</b>	5.1 – 116 psid
<b>MIN/MAX kW CAPACITY:</b>	5 kW / 500 kW
<b>POWER OPTIONS:</b>	460 V, 3 Phase, 60 Hz 208 – 230 V, 1 Phase, 60 Hz
<b>FULL LOAD AMPS:</b>	460 V – 2.65 A 208 – 230 V – 10 A
<b>WATER CONNECTION SIZE:</b>	5 in. NOM (5.6 in. OD)
<b>PUMP DRY WEIGHT:</b>	1,850 lb.
<b>PUMP DIMENSIONS (L x W x H):</b>	67.50 in. x 29.00 in. x 81.78 in.
<b>COMMUNICATION / MONITORING:</b>	MODBUS, BACNET, or SNMP

### Features

-  Assembled in the USA.
-  Industry standard hardware and software for easy BMS integration.
-  Aesthetic design with flexible location and compact footprint.
-  Energy efficient 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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