



## *The Next Generation in High Density Cooling*

**Waterless, Two-Phase, Refrigerant-Based Active Rear Door Heat Extraction from OptiCool delivers an immediate impact on capacity, efficiency, and your bottom line.**



**Reduce** your carbon footprint and energy usage by up to 90%



**Eliminate** spatial constraints - reclaim floor and overhead space



**Increase** rack densities up to 60kW+



**Future-Proof Design**

Capacity Scalability Modularity Space Efficiency Adaptability

## *Proven results for demanding applications*

**Edge Computing  
High Performance Computing  
Telecom and Cable**

**Corporate Data Center  
Hot Spots  
Colocations**

[WWW.OptiCoolTechnologies.com](http://WWW.OptiCoolTechnologies.com)



# RPW-060

## CHILLED WATER EXTERNAL HEAT REJECTION

*The OptiCool RPW-060 system provides best-in-class precision cooling in any mission-critical infrastructure where chilled water is available.*

The OptiCool RPW-060 is a highly efficient low-pressure pumped 513a refrigerant system supporting up to 40 Active Heat eXtractor (AHX) units for applications achieving 60 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-060 pump is part of a system and requires other OptiCool products for effective heat transfer out of the room.

The RPW-060 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-060 system, or it can be a new chilled water package provided by a third party.



### Specifications

MIN/MAX kW CAPACITY	5 kW / 60 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



[Opticooltech.com](https://www.opticooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

855 Publishers pkwy,  
Webster, NY 14580 USA

Sales 585-347-6142  
Service 585-967-5434



# 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



[Opticooltech.com](https://www.opticooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

855 Publishers pkwy,  
Webster, NY 14580 USA

Sales 585-347-6142  
Service 585-967-5434



# RPW-230

## CHILLED WATER EXTERNAL HEAT REJECTION

*The OptiCool RPW-230 system provides best-in-class precision cooling in any mission-critical infrastructure where chilled water is available.*

The OptiCool RPW-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.

The RPW-230 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-230 system, or it can be a new chilled water package provided by a third party.



### Specifications

MIN/MAX KW CAPACITY	5 kW / 230 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	1,500 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
CHILLED WATER FLOW RATE	220 GPM
MAX SUPPLY PRESSURE	100 PSIG
RPW CHILLED WATER DELTA AT FULL LOAD	12°F
CHILLED WATER SUPPLY TEMP	45°F
WATER CONNECTION SIZE	3 in NOM (3.125 in ODF)
ALLOWABLE WATER PRESSURE DIFFERENTIAL	18-87 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



[Opticooltech.com](https://www.opticooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

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Webster, NY 14580 USA

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Service 585-967-5434





# RPC-115

## DIRECT EXPANSION (DX) EXTERNAL HEAT REJECTION

*The OptiCool RPC-115 system provides best-in-class precision cooling in any mission-critical where Direct eXpansion (DX) cooling applications are required.*

The OptiCool RPC-115 is a highly efficient low-pressure pumped 513a refrigerant system supporting up to 40 Active Heat eXtractor (AHX) units for applications achieving 115 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-115 pump is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each RPC-115 pump also requires an Outdoor Heat eXpansion unit (ODX-115).



### Specifications

MIN/MAX kW CAPACITY	12 kW / 115 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	1,300 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

### 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



Opticooltech.com  
Info@opticooltech.com

855 Publishers pkwy,  
Webster, NY 14580 USA

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Service 585-967-5434

# ODX-115

## OUTDOOR DIRECT EXPANSION (ODX) UNIT

*The OptiCool ODX-115 unit pairs with a single OptiCool RPC-115 pump to create a high quality system that provides precision cooling in any mission critical infrastructure where Direct eXpansion (DX) cooling applications are required.*

The OptiCool ODX-115 unit manages the transfer of heat from the RPC-115 pump to the outdoors using R-410A refrigerant. The unit has variable capacity compressors, which allow for low and fluctuating heat loads. The ODX-115 unit is air-cooled condenser that can be roof or ground-mounted.

The ODX-115 unit is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each ODX-115 unit also requires an OptiCool RPC-115 pump.








### Specifications

ODX POWER CONSUMPTION**	41 Kw
ODX WEIGHT	1,800 lb
ODX DIMENSIONS	45 in x 98 in x 100 in
COMPRESSORS (BLDC SCROLL)	2
AMBIENT OPERATING RANGE	-40°F TO 120°F
MINIMUM LOAD REQUIRED***	12 kW
ODX/RPC EQUIVALENT SUPPLY LENGTH (MAX)***	185 ft
SECONDARY CIRCUIT REFRIGERANT	R-410a
MCA	480 V, 3 Phase, 75 amp 208 V / 230 V, 3 Phase, 165 amp
MOPD	480 V, 3 Phase, 100 amp 208 V / 230 V, 3 Phase, 225 amp
CERTIFICATION	ISO 9001

\*\* 100% @ Rated Condition of 95°F

\*\*\* Minimum load may vary with line length and elevation

### Features

-  Assembled in the USA
-  Integrated communication with RPC for data monitoring
-  Aesthetic design and light-weight with compact outdoor footprint
-  Redundant capable with multiple compressors
-  Variable speed compressors for precise temperature control and minimal power consumption





# 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



[Opticooltech.com](https://opticooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

855 Publishers pkwy,  
Webster, NY 14580 USA

Sales 585-347-6142  
Service 585-967-5434

# ODX-230

## OUTDOOR DIRECT EXPANSION (ODX) UNIT

*The OptiCool ODX-230 unit pairs with a single OptiCool RPC-230 pump to create a high quality system that provides precision cooling in any mission critical infrastructure where Direct eXpansion (DX) cooling applications are required.*

The OptiCool ODX-230 unit manages the transfer of heat from the RPC-230 pump to the outdoors using R-410A refrigerant. The unit has variable capacity compressors, which allow for low and fluctuating heat loads. The ODX-230 unit is air-cooled condenser that can be roof or ground-mounted.

The ODX-230 unit is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each ODX-230 unit also requires an OptiCool RPC-230 pump.



### Specifications

ODX POWER CONSUMPTION**	82 Kw
ODX WEIGHT	3,600 lb
ODX DIMENSIONS	90 in x 98 in x 101 in
COMPRESSORS (BLDC SCROLL)	4
AMBIENT OPERATING RANGE	-40°F TO 120°F
MINIMUM LOAD REQUIRED***	22 kW
ODX/RPC EQUIVALENT SUPPLY LENGTH (MAX)***	185 ft
SECONDARY CIRCUIT REFRIGERANT	R-410a
MCA	480 V, 3 Phase, 139 amp 208 V / 230 V, 3 Phase, 313 amp
MOPD	480 V, 3 Phase, 150 amp 208 V / 230 V, 3 Phase, 350 amp
CERTIFICATION	ISO 9001

\*\* 100% @ Rated Condition of 95°F

\*\*\* Minimum load may vary with line length and elevation

### Features



Assembled in the USA



Integrated communication with RPC for data monitoring



Aesthetic design and light-weight with compact outdoor footprint



Redundant capable with multiple compressors



Variable speed compressors for precise temperature control and minimal power consumption





# CDS-30

30 kW COOL DOOR SYSTEM

*Targeting and extracting heat at the source makes the OptiCool Cool Door System (CDS) the benchmark for reliable and efficient Data Center cooling.*

The OptiCool CDS is an active rear door heat exchanger (RDHx) that can be mounted directly to the back of any standard equipment rack using a Door Transition Kit (DTK) that maintains the internal space of the rack. The design of the CDS provides the flexibility to install up to three Active Heat eXtractors (AHXs) per door. OptiCool's calibrated solution is engineered to maintain ambient room temperature to allow your equipment to perform as specified.

### *Active Heat eXtractor (AHX) units*

The OptiCool AHX is a high performance, variable-speed unit that adjusts to the heat load within your equipment rack to maximize efficiency. AHX's are fed with a dual power distribution units and are placed in alignment with the heat load to extract heat from the rack. Each AHX moves air over its evaporator coils to remove the heat and provide a room-neutral temperature that minimizes the thermal impact of your equipment space. Each evaporator coil in the AHX is encased in a frame with a protective guard.








Our CDS can include blanking panels to ensure efficiency when the cooling application requires less than a full complement of AHX's per door. Additionally, clients who rely on hot aisle containment in their Data Centers can experience enhanced cooling efficiency with our AHX fan-only model. Streamlined and economical, this innovative solution optimizes white space conditions without the need for pump units or a coolant distribution network.



## Specifications

# OF AHX SUPPORTED	0 to 3
AHX DIMENSIONS (EA)	22.7"x 13.7"x 6.13"
AHX UNIT WEIGHT (EA)	25 lb
TOTAL DOOR DEPTH	8.75" (2"DOOR + 6.75" DTK)
DOOR WEIGHT (EA)	35 lb to 57 lb
DTK WEIGHT	24 lb to 40 lb
PDU WEIGHT	6.5 lb
POWER INPUT	SINGLE or DUAL
MAX POWER CONSUMPTION PER AHX	131.5 WATT
INLET SENSORS	REDUNDANT A/B TEMP SENSORS
CERTIFICATION	ISO 9001-2015
NEBS SEISMIC COMPLIANT	YES
COLOR	BLACK or WHITE
DOOR HEIGHT	42/44U to 52U    24" to 32" RACKS

## 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



[OptiCooltech.com](https://OptiCooltech.com)  
[Info@optiCooltech.com](mailto:Info@optiCooltech.com)

855 Publishers pkwy,  
Webster, NY 14580 USA

Sales 585-347-6142  
Service 585-967-5434





# CDS-60

60 kW COOL DOOR SYSTEM

*Targeting and extracting heat at the source makes the OptiCool Cool Door System (CDS) the benchmark for reliable and efficient Data Center cooling.*

The OptiCool CDS is an active rear door heat exchanger (RDHx) that can be mounted directly to the back of any standard equipment rack using a Door Transition Kit (DTK) that maintains the internal space of the rack. The design of the CDS provides the flexibility to install up to three Active Heat eXtractors (AHXs) per door. OptiCool's calibrated solution is engineered to maintain ambient room temperature to allow your equipment to perform as specified.

## Active Heat eXtractor (AHX) units

The OptiCool AHX is a high performance, variable-speed unit that adjusts to the heat load within your equipment rack to maximize efficiency. AHX's are fed with a dual power distribution units and are placed in alignment with the heat load to extract heat from the rack. Each AHX moves air over its evaporator coils to remove the heat and provide a room-neutral temperature that minimizes the thermal impact of your equipment space. Each evaporator coil in the AHX is encased in a frame with a protective guard.








Our CDS can include blanking panels to ensure efficiency when the cooling application requires less than a full complement of AHX's per door. Additionally, clients who rely on hot aisle containment in their Data Centers can experience enhanced cooling efficiency with our AHX fan-only model. Streamlined and economical, this innovative solution optimizes white space conditions without the need for pump units or a coolant distribution network.



## Specifications

# OF AHX SUPPORTED	0 to 3
AHX DIMENSIONS (EA)	22.7"x 19.5"x 8.25"
AHX UNIT WEIGHT (EA)	35 lb
TOTAL DOOR DEPTH	8.75" (2"DOOR + 6.75" DTK)
DOOR WEIGHT (EA)	35 lb to 57 lb
DTK WEIGHT	24 lb to 40 lb
PDU WEIGHT	6.5 lb
POWER INPUT	SINGLE or DUAL
MAX POWER CONSUMPTION PER AHX	263 WATT
INLET SENSORS	REDUNDANT A/B TEMP SENSORS
CERTIFICATION	ISO 9001-2015
NEBS SEISMIC COMPLIANT	YES
COLOR	BLACK or WHITE
DOOR HEIGHT	42/44U to 52U    24" to 32" RACKS

## 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



[OptiCooltech.com](http://OptiCooltech.com)  
[Info@optiCooltech.com](mailto:Info@optiCooltech.com)

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Webster, NY 14580 USA

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Service 585-967-5434



# CDU-M15

## COOLING DISTRIBUTION UNIT

*OptiCool Coolant Distribution Units: Liquid Cooling for AI High-Performance Computing*

OptiCool's Coolant Distribution Units (CDU) are purpose-built to decouple facility chilled water systems from IT cooling infrastructure, delivering precision liquid cooling solutions for high-density, AI driven Data Centers.

OptiCool's 1.5 MW CDU ensures efficient heat removal, while supporting seamless integration into any Data Center environment.

With Customizable configurations and precision control systems, OptiCool's CDU's provide scalable, resilient cooling that meets today's demands, while future-proofing your Data Center for tomorrow's capacity needs.








Whether supporting direct-to-chip cooling, rear door heat exchangers, or next generation IT workloads, OptiCool CDU's are the ultimate solution for optimizing your Data Centers performance and efficiency.



### Specifications

EXTERNAL HEAT REJECTION	CHILLED WATER OR GLYCOL MIX
NORMAL CAPACITY	1,500 kW @ 6.5°F ATD
MAX SECONDARY FLOW	440 GPM
MAX SECONDARY EXTERNAL PRESSURE DROP	65 PSI
SECONDARY TEMPERATURE RANGE	45°-130°F
PRIMARY INTERNAL PRESSURE DROP	13 PIS @ 320 GPM
MAX POWER CONSUMPTION	17.2 kW
COMMUNICATION/MONITORING	MODBUS, BACNET, or SNMP
DIMENSIONS	66 in x 79 in x 39 in
DRY WEIGHT	2,700 lb

### Features

-  Assembled in the USA
-  Industry standard hardware and software for easy BMS integration
-  Redundant and Autonomous Operation
-  Optional, internal Dual Power Feed (ATS)
-  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



[Opticooltech.com](https://opticooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

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# AISLE CONTAINMENT

OptiCool's AHX-Integrated Aisle Containment solution combines the efficiency of active cooling with the scalability and familiarity of traditional aisle containment systems. By integrating our intelligent Active Heat Exchange (AHX) units directly into the containment structure, we provide a modular, high-performance solution designed to meet the demands of today's densifying data centers.

Whether you're retrofitting an existing environment or designing a new build, this solution delivers rack-level cooling without the complexity of full-room HVAC upgrades. The AHX units dynamically adjust based on real-time heat loads, extracting heat directly at the source and discharging room-neutral air—preserving aisle separation while eliminating thermal hotspots.

Designed for deployment with OptiCool's overhead manifold and Refrigeration Distribution Network (RDN), this system enables fast, efficient installation and scaling across a variety of environments



## Specifications

RACK HEIGHT	42U, 45U, 48U OR CUSTOM SIZES
aisle width	3-6 ft FOR ACCESSIBILITY
RACK DEPTH	STANDARD 42-48 in
HEAT DISSIPATION CAPACITY	5-40kW PER RACK
AHX OPTIONS	10kW, 20kW, and 40kW
AHX DIMENSIONS	10kW - 22.7"x 13.7"x 6.13" 20kW - 22.7"x 19.5"x 8.25" 40kW - 22.7"x 19.5"x 9.00"
REFRIGERANT COOLING	R-513A
ENERGY EFFICIENCY	1.02 PUE
POWER INPUT	SINGLE or DUAL
MAX POWER CONSUMPTION PER AHX	131.5 WATT for 10kW AHX 263 WATT for 20kw AHX 1278 WATT for 40kw AHX
INLET SENSORS	REDUNDANT A/B TEMP SENSORS

## Features



Assembled in the USA



Industry standard hardware and software for easy BMS integration



Compatible with existing infrastructure  
Greenfield / Brownfield



Eliminates mixing of hot and cold air, ensuring uniform, predictable temperature to all IT equipment



Variable-speed fans adjust to actual workload demand



Cooling Cost Reduction: Can lower cooling energy consumption



Hot-swappable AHX units adapt to increasing rack loads



[OptiCooltech.com](https://OptiCooltech.com)  
[Info@opticooltech.com](mailto:Info@opticooltech.com)

855 Publishers pkwy,  
Webster, NY 14580 USA

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RPW Units are connected to facility chilled water, and can be installed up to 185' away from last RDS header port.

\*RPW Supplied by OptiCool, Installed by Certified OptiCool mechanical contractor.

\*All fittings to connect the RPW to the facility chilled water and RDS sections to be supplied by Mechanical Contractor.

\*Electric connections to the RPW supplied by mechanical contractor.

\*BMS- supports MODBUS, BACNET, or SNMP



RDS- (Refrigerant Distribution Section)- each pair of headers can support (5) 24" cabinets, (4) 30" cabinets, or (3) 32" cabinets.

\*RDS Supplied by OptiCool, Installed by Certified OptiCool mechanical contractor.

\*All fittings to connect the RDS to the RPW, including bypass assembly and filter assembly to be supplied by Mechanical Contractor.

EXAMPLE: Customer has (20) 24" cabinets, they would need 4 pairs of the RDS sections.



CDS-(Cool Door System) and DTK-(Door Transition Kit) are mounted to the back of the customers cabinet and can support up to 3 AHX units per door. Blanking panels can be used when the cooling application requires less than a full complement of AHX's per door. DTK's can be engineered to fit any cabinet.

\*CDS, DTK's and Blanking panels, hardware to mount DTK and CDS supplied by OptiCool.

\*Installed by OptiCool technician or Certified OptiCool mechanical contractor.

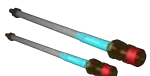


AHX-( Adaptive Heat eXtractor) - Up to 3 AHX's can be installed per door. (3) 10kW AHX's= 30kW per door or (3) 20kW AHX's =60kW per door. Total quantity of AHX's is dependent on what RPW is used.

EXAMPLE- RPW/230 can support up to (23) 10Kw AHX's or (11) 20kW AHX's.

\*AHX's supplied by OptiCool

\*AHX's installed by OptiCool technician or Certified OptiCool mechanical contractor.



HPS-(Hose Pair, Stainless Steel or HPI-(Hose Pair, Isolator)- (1) pair of Hoses is needed for each AHX, and is connected to the RDS by self sealing quick connect couplers (supplied by OptiCool).

\*Installed by OptiCool technician or Certified OptiCool mechanical contractor.



PDU-( Power Distribution Unit )- 4A, 400 Watts, option: AC or DC.

(2) PDU's needed for 30kW door, or (4) PDU's for 60kW door. Each PDU is mounted in the CDS or DTK.

\*Supplied by OptiCool

\*Electric connections supplied by mechanical contractor.

\*Installed by OptiCool technician or Certified OptiCool mechanical contractor.



#### SERVICES:

\* OptiCool Professional Services- CDS,AHX,PDU, and HPS installation- Quote provided by OptiCool

\* OptiCool Professional Services- System start up- validate refrigerant levels, establish set point parameters, calibrate dew point sensors, establish BMS connectivity and operations site personnel training. Quote provided by OptiCool.

\* System Commissioning- Optional service if requested by Customer, and can be done by OptiCool or 3rd party.

\* Project Management- Includes Application and Design, Site visits and engineering. Quote provided by OptiCool.



1 YEAR OPTICOOOL WARRANTY INCLUDED WITH PURCHASE (PARTS ONLY, LABOR NOT INCLUDED)



5 YEAR OPTICOOOL WARRANTY (PARTS ONLY, LABOR NOT INCLUDED) OPTIONAL



RPC Units can be installed up to 185' away from OptiCool ODX units, and can be installed up to 185' away from last RDS header port.

- \*RPC Supplied by OptiCool, Installed by Certified OptiCool mechanical contractor.
- \*All fittings to connect the RPC to the ODX and RDS sections to be supplied by Mechanical Contractor.
- \*Electric connections to the RPC supplied by mechanical contractor.
- \*BMS- supports MODBUS, BACNET, or SNMP



ODX- (Optimizer Direct Expansion)- The ODX units are paired with OptiCool pumps when facility chilled water is not available.

- \*ODX supplied by OptiCool.
- \*Installation, electric, piping and fittings supplied by mechanical contractor



RDS- (Refrigerant Distribution Section)- each pair of headers can support (5) 24" cabinets, (4) 30" cabinets, or (3) 32" cabinets.

- \*RDS Supplied by OptiCool, Installed by Certified OptiCool mechanical contractor.
- \*All fittings to connect the RDS to the RPC, including bypass assembly and filter assembly to be supplied by Mechanical Contractor.

EXAMPLE: Customer has (20) 24" cabinets, they would need 4 pairs of the RDS sections.



CDS- (Cool Door System) and DTK- (Door Transition Kit) are mounted to the back of the customer's cabinet and can support up to 3 AHX units per door. Blanking panels can be used when the cooling application requires less than a full complement of AHX's per door. DTK's can be engineered to fit any cabinet.

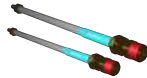
- \*CDS, DTK's and Blanking panels, hardware to mount DTK and CDS supplied by OptiCool.
- \*Installed by OptiCool technician or Certified OptiCool mechanical contractor.



AHX- (Adaptive Heat eXtractor) - Up to 3 AHX's can be installed per door. (3) 10kW AHX's = 30kW per door or (3) 20kW AHX's = 60kW per door. Total quantity of AHX's is dependent on what RPC is used.

EXAMPLE- RPC/230 can support up to (23) 10kW AHX's or (11) 20kW AHX's.

- \*AHX's supplied by OptiCool
- \*AHX's installed by OptiCool technician or Certified OptiCool mechanical contractor.



HPS- (Hose Pair, Stainless Steel) or HPI- (Hose Pair, Isolator)- (1) pair of Hoses is needed for each AHX, and is connected to the RDS by self sealing quick connect couplers (supplied by OptiCool).

- \*Installed by OptiCool technician or Certified OptiCool mechanical contractor.



PDU- (Power Distribution Unit) - 4A, 400 Watts, option: AC or DC.

(2) PDU's needed for 30kW door, or (4) PDU's for 60kW door. Each PDU is mounted in the CDS or DTK.

- \*Supplied by OptiCool
- \*Electric connections supplied by mechanical contractor.
- \*Installed by OptiCool technician or Certified OptiCool mechanical contractor.



#### SERVICES:

- \* OptiCool Professional Services- CDS, AHX, PDU, and HPS installation- Quote provided by OptiCool
- \* OptiCool Professional Services- System start up- validate refrigerant levels, establish set point parameters, calibrate dew point sensors, establish BMS connectivity and operations site personnel training. Quote provided by OptiCool.
- \* System Commissioning- Optional service if requested by Customer, and can be done by OptiCool or 3rd party.
- \* Project Management- Includes Application and Design, Site visits and engineering. Quote provided by OptiCool.



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5 YEAR OPTICOOL WARRANTY (PARTS ONLY, LABOR NOT INCLUDED) OPTIONAL