



RPC-060

DIRECT EXPANSION (DX) EXTERNAL HEAT REJECTION

The OptiCool RPC-060 system provides best-in-class precision cooling in any mission-critical infrastructure where Direct eXpansion (DX) cooling applications are required.

The RPC-060 is a highly efficient low-pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 60 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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 RPC-060 pump is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each RPC-060 pump also requires an Outdoor Direct eXpansion unit (ODX-060).



PRODUCT SPECS

EXTERNAL HEAT REJECTION	DIRECT EXPANSION (DX) / R-410a
MIN/MAX kW CAPACITY**	12 kW / 60 kW
NUMBER OF AHX SUPPORTED	3 TO 40 PER PUMP
POWER OPTIONS	480 V, 3 Phase, 60Hz 208 V, 1 Phase, 60Hz
FULL LOAD AMPS	480 V, 6.5 amp 208 V, 16 amp
PUMP DRY WEIGHT	1300 lb
PUMP DIMENSIONS	30 in x 82 in x 40 in
PUMP MOTORS	1N
REFRIGERANT DISTRIBUTION NETWORK EQUIVALENT SUPPLY LENGTH (MAX)	185 ft
PRIMARY CIRCUIT REFRIGERANT	R-134a
COMMUNICATION / MONITORING	MODBUS, BACNET, OR SNMP
CERTIFICATION	ISO 9001

** 100% @ Rated Condition of 95°F

FEATURES

- Assembled in USA
- Industry standard hardware and software for easy BMS integration
- Aesthetic design with flexible location and compact footprint
- System designed with cooling capacity management to effectively handle load change fluctuations
- Intuitive 10-inch touchscreen controls

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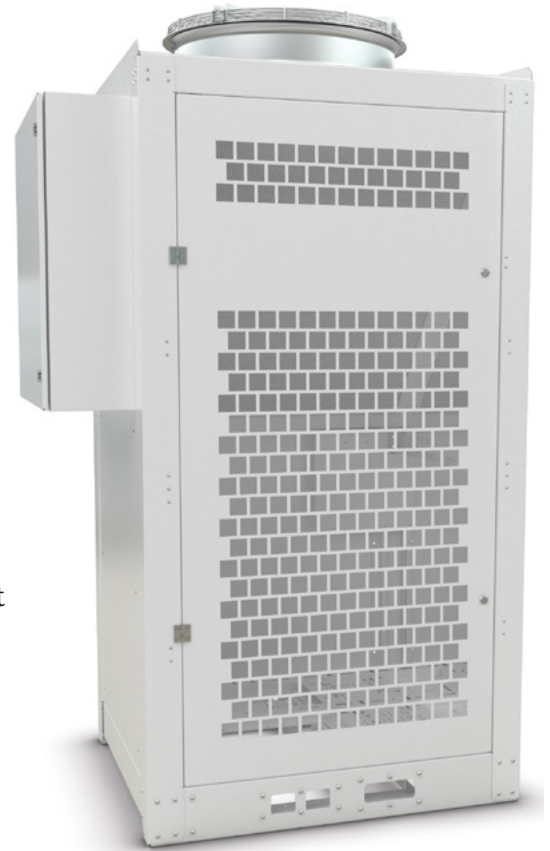
ODX-060

OUTDOOR DIRECT EXPANSION (ODX) UNIT

The OptiCool ODX-060 unit pairs with a single OptiCool RPC-060 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 ODX-060 unit manages the transfer of heat from the RPC-060 pump to the outdoors using R-410A refrigerant. The unit has variable capacity compressors, which allow for low and fluctuating heat loads. The ODX-060 unit is an air-cooled condenser that can be roof or ground-mounted.

The ODX-060 unit is part of a system and requires other OptiCool products for effective heat transfer out of the room. Each ODX-060 unit also requires an OptiCool RPC-060 pump.








PRODUCT SPECS

ODX POWER CONSUMPTION**	21 kW
ODX WEIGHT	1,000 lb
ODX DIMENSIONS	45 in x 98 in x 58 in
COMPRESSORS (BLDC SCROLL)	2
AMBIENT OPERATING RANGE	-40° F TO 120° F
ODX/RPC EQUIVALENT SUPPLY LENGTH (MAX)***	185 ft
MINIMUM LOAD REQUIRED***	12 kW
SECONDARY CIRCUIT REFRIGERANT	R-410a
MCA	480 V ±10%, 3 Phase, 75 amp 208 V / 230 V, 3 Phase, 165 amp
MOPD	480 V ±10%, 3 Phase, 100 amp 208V / 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 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

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RPC-115

DIRECT EXPANSION (DX) EXTERNAL HEAT REJECTION

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

The RPC-115 is a highly efficient low pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 115 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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 RPC-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 Direct eXpansion unit (ODX-115).



PRODUCT SPECS

EXTERNAL HEAT REJECTION	DIRECT EXPANSION (DX) / R-410a
MIN/MAX kW CAPACITY**	12 kW / 115 kW
NUMBER OF AHX SUPPORTED	3 TO 40 PER PUMP
POWER OPTIONS	480 V, 3 Phase, 60Hz 208 V, 1 Phase, 60Hz
FULL LOAD AMPS	480 V, 6.5 amp 208 V, 16 amp
PUMP DRY WEIGHT	1,300 lb
PUMP DIMENSIONS	30 in x 82 in x 40 in
PUMP MOTORS	1N
REFRIGERANT DISTRIBUTION NETWORK EQUIVALENT SUPPLY LENGTH (MAX)	185 ft
PRIMARY CIRCUIT REFRIGERANT	R-134a
COMMUNICATION / MONITORING	MODBUS, BACNET, OR SNMP
CERTIFICATION	ISO 9001

** 100% @ Rated Condition of 95°F

FEATURES

- Assembled in USA
- Industry standard hardware and software for easy BMS integration
- Aesthetic design with flexible location and compact footprint
- System designed with cooling capacity management to effectively handle load change fluctuations
- Intuitive 10-inch touchscreen controls

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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 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 an 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.








PRODUCT SPECS

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
ODX/RPC EQUIVALENT SUPPLY LENGTH (MAX)***	185 ft
MINIMUM LOAD REQUIRED***	12 kW
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 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

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RPC-230

DIRECT EXPANSION (DX) EXTERNAL HEAT REJECTION

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

The RPC-230 is a highly efficient low pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 230 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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 RPC-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 Direct eXpansion unit (ODX-230).



PRODUCT SPECS

EXTERNAL HEAT REJECTION	DIRECT EXPANSION (DX) / R-410a
MIN/MAX kW CAPACITY**	22 kW / 230 kW
NUMBER OF AHX SUPPORTED	3 TO 40 PER PUMP
POWER OPTIONS	480 V, 3 Phase, 60Hz 208 V, 1 Phase, 60Hz
FULL LOAD AMPS	480 V, 6.5 amp 208 V, 16 amp
PUMP DRY WEIGHT	1,500 lb
PUMP DIMENSIONS	33 in x 82 in x 40 in
PUMP MOTORS	1N
REFRIGERANT DISTRIBUTION NETWORK EQUIVALENT SUPPLY LENGTH (MAX)	185 ft
PRIMARY CIRCUIT REFRIGERANT	R-134a
COMMUNICATION / MONITORING	MODBUS, BACNET, OR SNMP
CERTIFICATION	ISO 9001

** 100% @ Rated Condition of 95°F

FEATURES

- Assembled in USA
- Industry standard hardware and software for easy BMS integration
- Aesthetic design with flexible location and compact footprint
- System designed with cooling capacity management to effectively handle load change fluctuations
- Intuitive 10-inch touchscreen controls

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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 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 an 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.








PRODUCT SPECS

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
ODX/RPC EQUIVALENT SUPPLY LENGTH (MAX)***	185 ft
MINIMUM LOAD REQUIRED***	22 kW
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 208V / 230V, 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 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

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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 RPW-060 is a highly efficient low-pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 60 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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.



PRODUCT SPECS

EXTERNAL HEAT REJECTION	CHILLED WATER OR GLYCOL MIX
MIN/MAX kW CAPACITY	5 kW / 60 kW
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, 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 USA
-  Industry standard hardware and software for easy BMS integration
-  Aesthetic design with flexible location and compact footprint
-  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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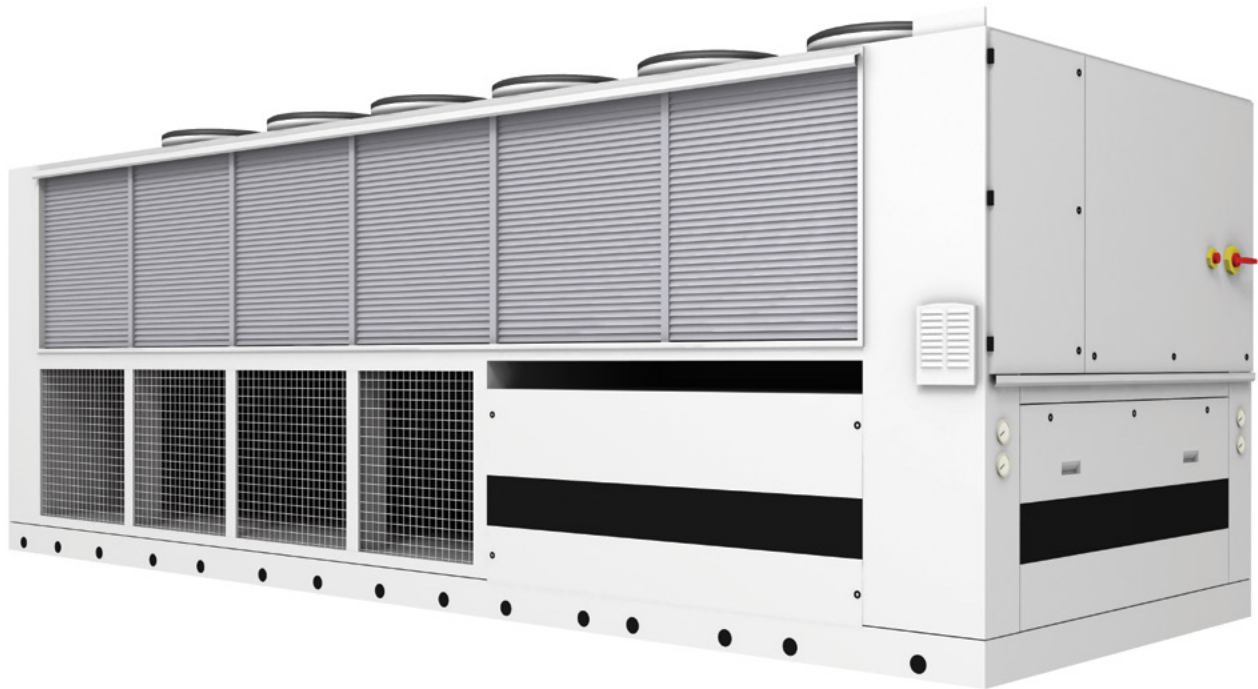


RPW-060

CHILLED WATER EXTERNAL HEAT REJECTION

The RPW-060 primary circuit utilizes a secondary chilled water circuit with the following specifications:

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.



PRODUCT SPECS

CHILLED WATER FLOW RATE	140 GPM
MAX SUPPLY PRESSURE	100 PSIG
RPW CHILLED WATER ΔT AT FULL LOAD	12° F
CHILLED WATER SUPPLY TEMPERATURE	45° F

ALLOWABLE WATER PRESSURE DIFFERENTIAL	15-75 PSID
WATER CONNECTION SIZE	2.5 in NOM (2.625 in ODF)
CERTIFICATION	ISO 9001

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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 RPW-120 is a highly efficient low-pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 120 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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.



PRODUCT SPECS

EXTERNAL HEAT REJECTION	CHILLED WATER OR GLYCOL MIX
MIN/MAX kW CAPACITY	5 kW / 120 kW
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, 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 USA
-  Industry standard hardware and software for easy BMS integration
-  Aesthetic design with flexible location and compact footprint
-  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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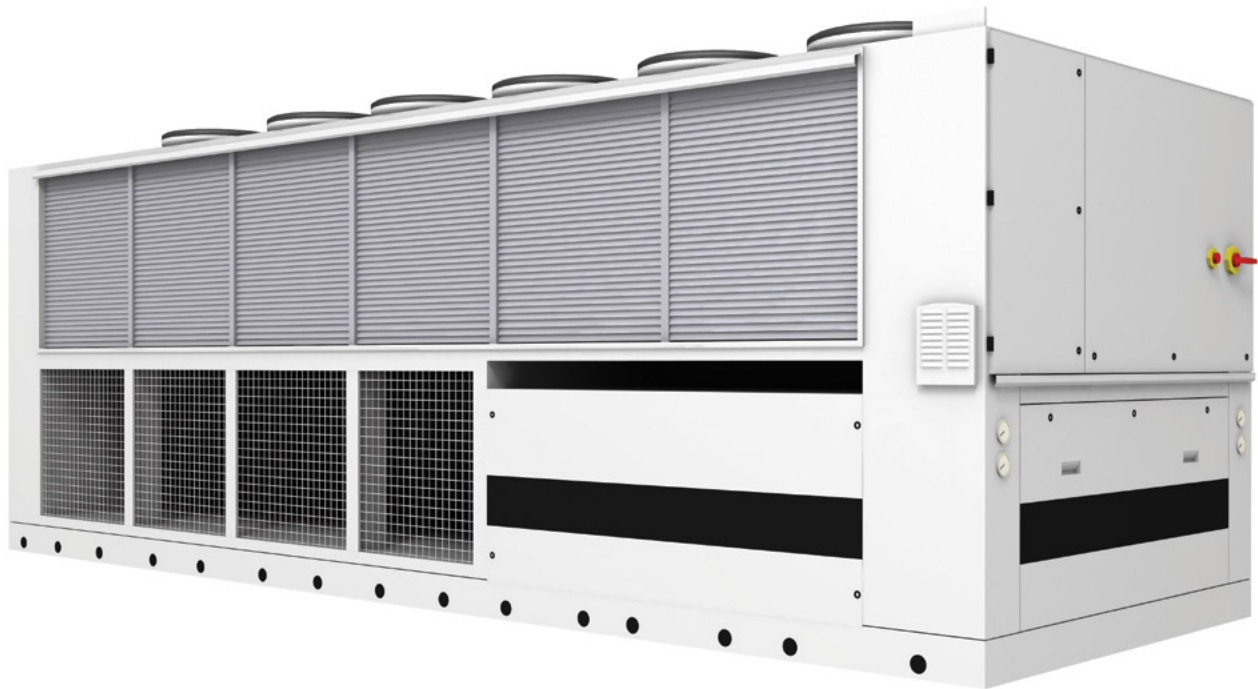


RPW-120

CHILLED WATER EXTERNAL HEAT REJECTION

The RPW-120 primary circuit utilizes a secondary chilled water circuit with the following specifications:

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.



PRODUCT SPECS

CHILLED WATER FLOW RATE	140 GPM
MAX SUPPLY PRESSURE	100 PSIG
RPW CHILLED WATER ΔT AT FULL LOAD	12° F
CHILLED WATER SUPPLY TEMPERATURE	45° F

ALLOWABLE WATER PRESSURE DIFFERENTIAL	15-75 PSID
WATER CONNECTION SIZE	2.5 in NOM (2.625 in ODF)
CERTIFICATION	ISO 9001

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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 RPW-230 is a highly efficient low-pressure pumped R-134a refrigerant system supporting up to 40 OptiCool Active Heat eXtractor (AHX) units for applications achieving 230 kW of non-condensing 100% sensible cooling. Employing a pumped R-134a 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.



PRODUCT SPECS

EXTERNAL HEAT REJECTION	CHILLED WATER OR GLYCOL MIX
MIN/MAX kW CAPACITY	5 kW / 230 kW
NUMBER OF AHX SUPPORTED	3 TO 40 PER PUMP
POWER OPTIONS	480 V, 3 Phase, 60Hz 208 V, 1 Phase, 60Hz
FULL LOAD AMPS	480 V, 6.5 amp 208 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 USA
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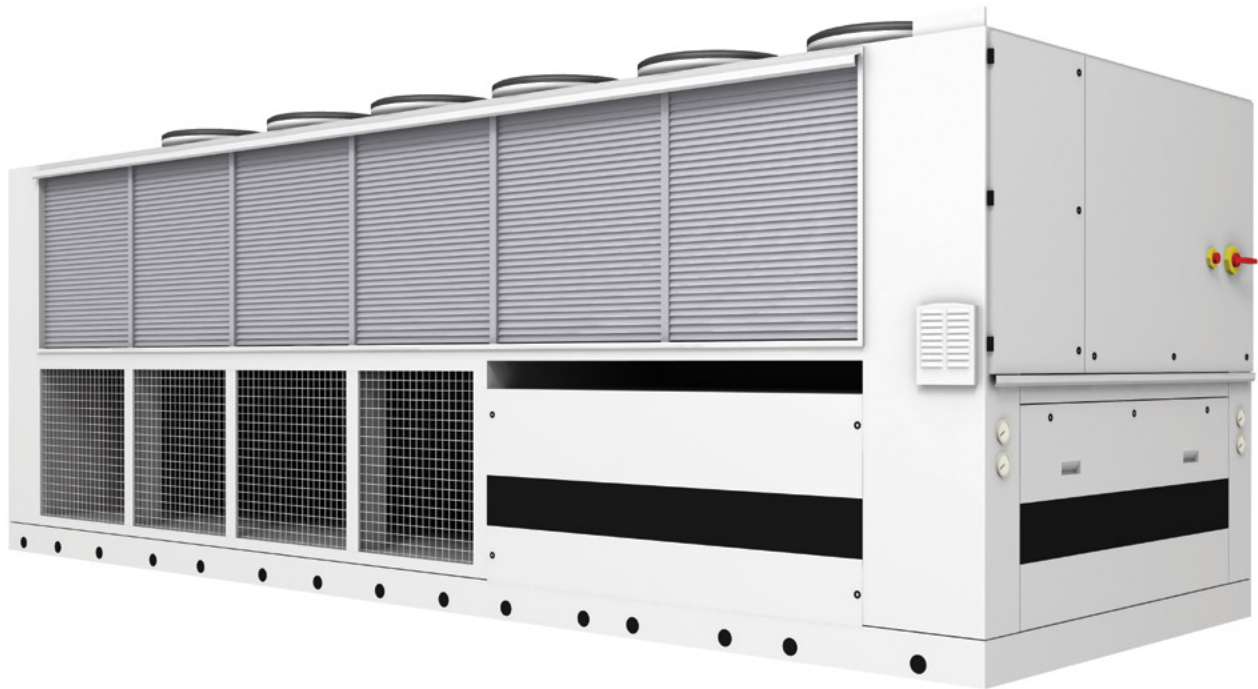


RPW-230

CHILLED WATER EXTERNAL HEAT REJECTION

The RPW-230 primary circuit utilizes a secondary chilled water circuit with the following specifications:

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.



PRODUCT SPECS

CHILLED WATER FLOW RATE	220 GPM
MAX SUPPLY PRESSURE	100 PSIG
RPW CHILLED WATER ΔT AT FULL LOAD	12° F
CHILLED WATER SUPPLY TEMPERATURE	45° F

ALLOWABLE WATER PRESSURE DIFFERENTIAL	18-87 PSID
WATER CONNECTION SIZE	3 in NOM (3.125 in ODF)
CERTIFICATION	ISO 9001

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