

motivair[®]
COOLING SOLUTIONS



MPC Air-Cooled Chillers MPC-FC Free-Cooling Chillers

½ - 100 Tons

OUR BUSINESS IS COOLING YOURS[™]

motivaircorp.com



When commercial grade isn't enough

Motivair® is a world-class supplier of water chillers for industrial process cooling, medical equipment and specialty HVAC systems.

The MPC and MPC-FC chillers offer an unparalleled range of cooling capacities, and available options that allow customers to select a chiller best suited to their business's needs.

The MPC range of water chillers have earned a quality reputation, trusted around the world to provide reliable cooling for critical applications. Let our experienced team work with you to provide the right chiller for your application.

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DEFINING MISSION CRITICAL COOLING

RELIABILITY

The MPC range of chillers is manufactured using the highest quality components. All components must pass a rigorous test cycle before being selected for production use. All fan & pump motors are TEFC or TEO, and are therefore suitable for outside use.

All MPC chillers are certified by ETL to be in compliance with UL and CSA standards and are CE certified. The combination of innovative design, premium components, and universal certification yields a final product worthy of the most demanding cooling applications.

FLEXIBILITY

Process cooling and HVAC heat loads are dynamic and sometimes unpredictable. The MPC range offers several means of capacity control. All models include a unique "cycling" design that allows the chiller to adapt automatically to any heat load from zero to 100% of its capacity. Models with one, two, and four compressors allow for staging in conjunction with cycling. VFD compressor options are available for select models.

This cycling design utilizes a large storage reservoir, to insure close water temperature control regardless of the load, or the load change. The MPC evaporators are NOT immersed in the reservoir, and are therefore readily accessible for service, repair or replacement. The reservoir also acts as a buffer against temporary surge loads. Substantial energy savings can be achieved during low load chiller operation.

MPC chillers do not utilize a hot gas bypass valve, common to other chillers, because these valves create an artificial heat load, which requires the chiller to operate when the load is reduced. The unique MPC cycling design also allows it to be used on multiple processes in a single building.

LOWEST TOTAL COST OF OWNERSHIP

MPC chillers are designed for simplicity and ease of use.

- "Cycling" refrigeration circuit
- Integrated centrifugal circulation pump
- Large internal storage reservoir
- Microprocessor & PLC controls
- Integrated Free Cooling Option
- Single point power connection

Application Defined Features & Options



INDUSTRIAL WATER CHILLERS

The MPC chillers can be applied to a wide range of industrial and commercial applications. Some common applications for MPC chillers include:

- Oncolog Machines
- Surgical Suites
- MRI Machines
- CT Scan Machines
- HVAC
- IT Rooms
- Pharmaceutical Mfg.
- Plastics Processing
- Printing Processes
- Hydraulic Cooling
- Welding Machines
- Lasers
- Metal Spraying
- Food Processing



"CYCLING" DESIGN FOR ENERGY SAVINGS

The Motivair MPC chillers all contain an oversized thermal storage reservoir. This unique feature allows the chiller to cycle its compressor(s) and fan(s) off during reduced process loads, while the pump runs continuously.

This will maintain water temperatures within $\pm 3^{\circ}\text{F}$ of set point. Competitive chillers typically use a hot gas by-pass valve to balance the chiller capacity against reduced loads, therefore wasting energy and causing unnecessary wear and tear on the chiller.



SCROLL COMPRESSORS

Multiple high efficiency scroll compressors with R-410A refrigerant.

Designed to operate at high efficiency across the entire operating range with lower sound and vibration than traditional compressors. Unique scroll compressor design allows for resistance to liquid slugging. VFD options available on select models.



FEATURES

- R-410A environmental friendly refrigerant
- High efficiency, stainless steel, brazed plate evaporators
- Centrifugal circulation pumps with close-coupled TEFC motors
- Oversized thermal storage reservoirs with fill, drain & vent ports
- Powerful, easy to use, non-proprietary micro-processors - "plug & play"
- Heavier frame construction – greater resistance to shipping, handling & operation abuse.
- Removable access panels for easy service & maintenance
- Standard high-pressure and low-pressure refrigeration gauges 5 tons and above.

ADDITIONAL OPTIONS

- Integrated Free Cooling
- 100% non-ferrous water circuit
- Laser ($\pm 1^{\circ}\text{F}$) temperature controls
- High-pressure pump
- Duplex pump package
- Low ambient package
- High ambient package
- Castors for portability
- Centrifugal fans
- R-404A, R-134A



WHEN DOWNTIME IS NOT AN OPTION

Motivair® Free-Cooling Chillers: The Ultimate Solution for Optimal Energy Savings

The Motivair® MPC-FC chillers with "Free-Cooling" capability are designed to provide the owner with optimal performance, year round, in varying ambient temperatures.

This "Free-Cooling" option, available on models MPC 0800-9000 is supplied complete with pump and storage reservoir, "Free-Cooling" coil and the PCO5 advanced PLC control package – a unique single package for year-round energy savings.

The refrigeration plant is designed to cool the designated heat load during the highest summer temperatures. When ambient temperatures fall overnight or during cooler seasonal weather, the integrated "Free-Cooling" system is automatically activated.

The system operates by directing the return chilled glycol through the "Free-Cooling" coil, before it enters the evaporator. This is achieved via an automatic motorized valve, controlled by the PLC, whenever the

ambient falls below the return chilled glycol temperature set point.

The glycol is either partially or completely cooled in the "Free-Cooling" coil for maximum energy savings. As a result, less mechanical refrigeration is required to achieve the chilled glycol set point, and the refrigeration compressors are cycled off by the PLC, which continuously monitors the system.

Energy savings in areas with cooler winter months are substantial. Wear and tear on chiller components is dramatically reduced, due to fewer running hours during winter months.

Automatic switching between mechanical cooling and "Free-Cooling" allows for optimal performance year round. As a general rule of thumb, "Free-Cooling" savings more than pay for the initial investment in the first year of operation!

Advanced Controls

THE MICROPROCESSOR

The standard Motivair microprocessor controller is a very powerful, yet user-friendly device. It offers a wide range of standard controls and alarms to suit any chiller application. It can control up to 4 stages of cooling in the chiller.

Optional communication features include a serial card connection to a remote PC and a full-feature, remote wall-mounting controller, connected via an RS485 cable up to 500 feet away.

For those applications requiring up to 8 cooling stages, and/or a higher level of remote communication, the PC05 advanced PLC system is available from the MPC 2200 and above.

| Standard Features & Alarms | XR-30C | Micro Chiller 2SE | PC05 |
|--|--------|-------------------|------|
| Highly visible digital display | x | x | x |
| Multi-character LCD display | | | x |
| Remote start/stop relay | | x | x |
| General alarm relay | | x | x |
| Supply water temp. display | x | x | x |
| Return water temp. display | | x | x |
| Adjustable water set point | x | x | x |
| Adjustable alarm set points | x | x | x |
| °F/°C adjustable | x | x | x |
| Manual alarm reset | x | x | x |
| High refrigeration pressure alarm | | x | x |
| Low refrigeration pressure alarm | | x | x |
| Freeze alarm | x | x | x |
| Phase/Voltage alarm | | x | x |
| High water temperature alarm | x | x | x |
| Low water temperature alarm | x | x | x |
| Adjustable anti-compressor short cycle feature | | x | x |
| Low water/glycol flow alarm | | x | x |
| Compressor overload alarm | | x | x |
| RS 232/RS 485 communication | | consult factory | x |
| Ethernet communication | | | x |
| LON, BACNET, MODBUS communication | | consult factory | x |
| Optional remote wall mount controller | | x | x |

| MPC model | Standard | Optional |
|---------------|-------------------|-------------------|
| MPC 0005-0010 | XR-30C | N/A |
| MPC 0150-0300 | XR-30C | Micro Chiller 2SE |
| MPC 0500-1500 | Micro Chiller 2SE | N/A |
| MPC 2200-9000 | Micro Chiller 2SE | PC05 |



Micro Chiller 2SE



PC05 Display



PC05 Board

All MPC controllers feature a plug-in wiring harnesses, so they can be quickly and easily changed without tools.

MPC/MPC-FC SPECIFICATIONS

| AIR COOLED CHILLERS WITH SCROLL COMPRESSORS | | MPC-A | 0200 | 0300 | 0500 | 0800 | 1000 | 1200 | 1500 | 2200 | 3000 | 3500 | 4000 | 5000 | 6000 | 7200 | 8000 | 8500 | 9000 |
|--|---------|--|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|------|
| Cooling Capacity * | Tons | 2.2 | 3.0 | 4.2 | 5.7 | 8.9 | 11.3 | 13.3 | 17.8 | 22.6 | 26.6 | 30.0 | 35.7 | 44.5 | 50.2 | 67.1 | 81.5 | 95.7 | |
| Elevation | FT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Refrigerant | Type | R-410A | | | | | | | | | | | | | | | | | |
| Number of Compressors | Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Refrigerant Circuits | Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Compressor Running Current | A | 4.3 | 5.5 | 8.3 | 12.1 | 14.8 | 18.5 | 23.8 | 14.85 | 18.5 | 23.8 | 26.3 | 14.85 | 18.825 | 25.7 | 28.625 | 37.275 | 42.075 | |
| Compressor Locked Rotor Amprage | A | 35 | 46 | 62 | 95 | 125 | 150 | 179 | 125 | 150 | 179 | 225 | 125 | 150 | 179 | 225 | 272 | 310 | |
| Max Absorbed working current per Compressor | A | 8 | 11 | 15.2 | 23 | 28 | 35 | 41 | 28 | 35 | 41 | 47.5 | 28 | 35 | 41 | 47.5 | 65.4 | 85 | |
| Evaporator Flow Rate | GPM | 5 | 7 | 10 | 14 | 21 | 27 | 32 | 43 | 59 | 64 | 72 | 86 | 107 | 121 | 161 | 196 | 230 | |
| Minimum Fluid Flow Rate | GPM | 5 | 5 | 5 | 13 | 13 | 26 | 26 | 26 | 42 | 42 | 29 | 70 | 70 | 132 | 132 | 159 | 159 | |
| Maximum Fluid Flow Rate | GPM | 19 | 19 | 19 | 29 | 29 | 70 | 70 | 70 | 70 | 101 | 101 | 141 | 141 | 203 | 247 | 282 | 365 | |
| Maximum Pump Absorbed Power | kW | 0.75 | 0.75 | 0.75 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 3 | 3 | 3 | 4 | 4 | 5.5 | 5.5 | 7.5 | 11 | |
| Maximum Pumps Absorbed Current | A | 1.6 | 1.7 | 1.7 | 2.4 | 2.4 | 4.3 | 4.3 | 4.3 | 5.85 | 5.85 | 5.85 | 7.7 | 7.7 | 10 | 10 | 13.2 | 20 | |
| Integrated Pump External Pressure | PSI | 38.11 | 38.16 | 36.92 | 37.68 | 33.51 | 36.74 | 36.53 | 34.95 | 34.77 | 31.94 | 29.81 | 34.05 | 31.76 | 34.05 | 35.65 | 43.39 | 51.51 | |
| Integrated Tank Volume | GAL | 13 | 13 | 13 | 30 | 50 | 50 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 130 | 130 | 130 | |
| Number of Condenser Coils | Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Condenser Fan(s) | Qty | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 5 | 5 | 6 | |
| Total Absorbed Power | kW | 1.05 | 1.05 | 1.05 | 1.42 | 2.1 | 2.84 | 2.1 | 4.36 | 4.36 | 4.36 | 4.36 | 6.54 | 6.54 | 6.54 | 10.9 | 10.9 | 13.08 | |
| Absorbed Current | A | 1.57 | 1.57 | 1.57 | 2.54 | 3.14 | 5.08 | 3.14 | 7.6 | 7.6 | 7.6 | 7.6 | 11.4 | 11.4 | 11.4 | 19 | 19 | 22.8 | |
| NOISE DATA | | Distance measured in an open field at 33 Feet from Condenser | | | | | | | | | | | | | | | | | |
| Sound Pressure Level at 32.8' | dBa | 53.4 | 53.6 | 53.8 | 60.0 | 57.4 | 63.2 | 58.7 | 60.4 | 60.7 | 61.4 | 63.0 | 62.5 | 62.8 | 63.8 | 67.5 | 69.6 | 69.4 | |
| ELECTRICAL DATA | | Includes Integrated Pump | | | | | | | | | | | | | | | | | |
| Nominal Power | kW | 4.56 | 5.3 | 7.45 | 10.62 | 12.84 | 17.29 | 18.65 | 25.84 | 31.86 | 36.06 | 41.31 | 49.1 | 60.74 | 75.24 | 94.2 | 121.2 | 140.08 | |
| Maximum Absorbed current (FLA) based on compressor MCC | A | 11.27 | 14.27 | 18.47 | 27.94 | 33.54 | 44.38 | 48.44 | 67.9 | 83.45 | 95.45 | 101.95 | 131.1 | 159.1 | 185.4 | 219 | 293.8 | 343.6 | |
| Electrical | V/PH/Hz | 460/3/60 | | | | | | | | | | | | | | | | | |
| Full Load Current (FLA) | A | 7.5 | 8.8 | 11.6 | 17.0 | 20.3 | 27.9 | 31.2 | 41.6 | 50.5 | 61.1 | 66.1 | 78.5 | 94.4 | 124.2 | 143.5 | 181.3 | 211.1 | |
| Min Circuit Ampacity (MCA) | A | 8.5 | 10.1 | 13.6 | 20.1 | 24.0 | 32.5 | 37.2 | 45.3 | 55.1 | 67.0 | 72.6 | 82.2 | 99.1 | 130.6 | 150.7 | 190.6 | 221.6 | |
| Max Overcurrent Protection (MOP) | A | 12.8 | 15.6 | 21.9 | 32.2 | 38.8 | 51.0 | 61.0 | 60.2 | 73.6 | 90.8 | 98.9 | 97.1 | 117.9 | 156.3 | 179.3 | 227.9 | 263.7 | |
| Sound Pressure Level at 32.8' (Low Noise) | dBa | 53.1 | 53.2 | 53.2 | 59.8 | 56.6 | 62.9 | 57.5 | 59.6 | 59.7 | 60.0 | 60.8 | 61.4 | 61.6 | 62.2 | 64.9 | 66.3 | 66.8 | |
| EQUIPMENT DIMENSIONS & WEIGHTS | | | | | | | | | | | | | | | | | | | |
| Length | IN | 32.3 | 32.3 | 32.3 | 39.8 | 63.4 | 63.4 | 63.4 | 87.4 | 87.4 | 87.4 | 87.4 | 132.1 | 171.5 | 171.5 | 211 | 211 | 250 | |
| Width | IN | 24.2 | 24.2 | 24.2 | 28.3 | 33.9 | 33.9 | 33.9 | 43.3 | 43.3 | 43.3 | 43.3 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | |
| Height | IN | 53.5 | 53.5 | 53.5 | 62.2 | 60.6 | 60.6 | 60.6 | 82.7 | 82.7 | 82.7 | 82.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | |
| In & Out Connection Size | IN | 1" | 1" | 1" | 1" | 1.5" | 1.5" | 1.5" | 2" | 2" | 2" | 2" | 2.5" | 2.5" | 2.5" | 5" | 5" | 5" | |
| Estimated Shipping Weight | LBS | 386 | 397 | 408 | 573 | 860 | 882 | 948 | 1,786 | 1,830 | 1,885 | 2,050 | 3,417 | 4,631 | 4,851 | 5,292 | 6,020 | 6,758 | |
| MPC-W- WATER COOLED (OPTION) | | MPC-W | 0200 | 0300 | 0500 | 0800 | 1000 | 1200 | 1500 | 2200 | 3000 | 3500 | 4000 | 5000 | 6000 | 7200 | 8000 | 8500 | 9000 |
| **Cooling Capacity - Water Cooled (Tons) | BTU/Hr. | 28,746 | 38,586 | 53,895 | 73,169 | 115,022 | 145,972 | 171,451 | 230,081 | 291,943 | 342,938 | 386,626 | 460,163 | 573,717 | 647,988 | 864,962 | 1,051,355 | 1,234,811 | |
| Condenser Fluid Flow | GPM | 6 | 8 | 11 | 16 | 25 | 32 | 38 | 51 | 71 | 77 | 88 | 105 | 133 | 151 | 203 | 249 | 295 | |
| Full Load Current (FLA) | A | 5.9 | 7.2 | 10.0 | 14.5 | 17.2 | 22.8 | 28.1 | 34.0 | 42.9 | 53.5 | 58.5 | 67.1 | 83.0 | 112.8 | 124.5 | 162.3 | 188.3 | |
| Min Circuit Ampacity (MCA) | A | 7.0 | 8.6 | 12.1 | 17.5 | 20.9 | 27.4 | 34.1 | 37.7 | 47.5 | 59.4 | 65.0 | 70.8 | 87.7 | 119.2 | 131.7 | 171.6 | 198.8 | |
| Max Overcurrent Protection (MOP) | A | 11.3 | 14.1 | 20.4 | 29.6 | 35.7 | 45.9 | 57.9 | 52.6 | 66.0 | 83.2 | 91.3 | 85.7 | 106.5 | 144.9 | 160.3 | 208.9 | 240.9 | |
| Estimated Shipping Weight | LBS | 361 | 372 | 383 | 548 | 835 | 857 | 923 | 1,761 | 1,805 | 1,860 | 2,025 | 3,392 | 4,605 | 3,480 | 4,605 | 3,613 | 4,825 | |

Motivair reserves the right to make changes to product specifications without notice.

| FREE COOLING CHILLERS WITH SCROLL COMPRESSORS | | MPC-FC | 1000 | 1200 | 1500 | 2200 | 3000 | 3500 | 4000 | 5000 | 6000 | 7200 | 8000 | 8500 | 9000 |
|---|---------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Cooling Capacity | Tons | 8.6 | 10.9 | 13.0 | 17.1 | 21.7 | 25.7 | 29.2 | 34.3 | 44.0 | 52.5 | 63.8 | 77.3 | 88.9 | |
| 100% Free Cooling Ambient | °F | 32 | 34 | 33 | 33 | 33 | 34 | 33 | 33 | 32 | 30 | 31 | 28 | 21 | |
| Refrigerant | Type | R-410A | | | | | | | | | | | | | |
| Number of Compressors | Qty | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Refrigerant Circuits | Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Evaporator Flow Rate | GPM | 21 | 26 | 31 | 41 | 52 | 62 | 70 | 83 | 106 | 126 | 153 | 186 | 214 | |
| PSI Drops (Evap+Valves+Piping) | PSID | 5.71 | 5.72 | 5.96 | 6.30 | 6.65 | 7.00 | 6.88 | 7.82 | 9.45 | 10.96 | 5.83 | 5.83 | 6.07 | |
| F.C. PSI Drop (F.C.+Evap+Valve+Piping) | PSID | 11.31 | 9.11 | 9.81 | 9.92 | 11.43 | 12.96 | 12.14 | 14.47 | 14.47 | 17.16 | 11.08 | 12.84 | 11.67 | |
| Integrated Pump External Pressure | PSI | 27.52 | 32.71 | 31.68 | 30.70 | 41.46 | 36.58 | 39.33 | 36.20 | 38.51 | 40.32 | 40.32 | 36.28 | 46.37 | |
| Integrated Tank Volume | Gallons | 50 | 50 | 50 | 100 | 100 | 100 | 100 | 130 | 130 | 130 | 130 | 130 | 130 | |
| Condenser Fan(s) | Qty | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 6 | |
| NOISE DATA | | Distance measured in an open field at 33 Feet from Condenser | | | | | | | | | | | | | |
| Sound Pressure Level at 32.8' | dBa | 61.2 | 60 | 60.4 | 60.4 | 60.8 | 62.5 | 63.8 | 63.3 | 64.3 | 64.9 | 67.7 | 69.8 | 69.4 | |
| ELECTRICAL DATA | | Includes Integrated Pump | | | | | | | | | | | | | |
| Electrical | V/PH/Hz | 460/3/60 | | | | | | | | | | | | | |
| Full Load Current (FLA) | A | 23.2 | 32.0 | 37.0 | 43.7 | 55.7 | 69.7 | 73.9 | 86.5 | 111.8 | 131.4 | 156.4 | 193.2 | 224.8 | |
| Min. Circuit Ampacity (MCA) | A | 27.1 | 37.0 | 43.3 | 47.7 | 60.8 | 76.0 | 80.8 | 90.5 | 116.8 | 137.6 | 163.9 | 203.0 | 236.2 | |
| Max. Overcurrent Protection (MOP) | A | 42.9 | 57.1 | 68.4 | 63.6 | 81.0 | 101.3 | 108.2 | 106.4 | 136.7 | 162.4 | 194.0 | 242.3 | 281.7 | |
| EQUIPMENT DIMENSIONS & WEIGHTS | | | | | | | | | | | | | | | |
| Length | IN | 63.4 | 87.4 | 87.4 | 132.1 | 132.1 | 132.1 | 171.5 | 171.5 | 210.6 | 210.6 | 250.0 | 250.0 | 250.0 | |
| Width | IN | 33.9 | 43.3 | 43.3 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | |
| Height | IN | 60.6 | 82.7 | 82.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | |
| In & Out Connection Size | IN | 1.5" | 1.5" | 1.5" | 2" | 2" | 2" | 2" | 2.5" | 2.5" | 2.5" | 5" | 5" | 5" | |
| Estimated Shipping Weight | LBS | 1,323 | 1,676 | 1,764 | 3,208 | 3,241 | 3,329 | 4,630 | 4,850 | 5,335 | 5,445 | 6,162 | 6,603 | 7,154 | |

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* Air Cooled Capacity Rated @ 44°F LWT / 54°F EWT / 95°F Ambient / 100% Water. ** Water Cooled Capacity Rated @ 44°F LWT / 54°F EWT / 85°F ECWT

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COOLING SOLUTIONS



MLC & MLC-FC

60-500 tons air-cooled, water-cooled & split system chillers for industrial or HVAC applications. Available Integrated Free-Cooling.



MLC-SC AIR-COOLED SCROLL CHILLERS

100 – 285 tons air-cooled with scroll compressors to accommodate a wide range of operating points and customization for today's advanced industrial manufacturing and mission critical environments. Available Integrated Free-Cooling.



PTS

Pump/Tank Stations for chillers and cooling systems. Standard and custom designs available.



MFC

Closed loop dry-coolers for process cooling and remote "Free-Cooling" applications.



CHILLED DOOR[®] RACK COOLING SYSTEM

Advanced server rack cooling system fits any standard or OEM computer rack. Removes up to 75 kW of server heat per door.



CDU

The Coolant Distribution Unit (CDU) provides 100% sensible cooling up to 1.25MW, depending on the model. For use with the ChilledDoor[®] or other IT cooling systems.

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