

Rittal – The System.

Faster – better – everywhere.

LCP DX Rack and Suite Cooling



Small and medium-sized IT data centers can be confined in small spaces where the build-up of heat is likely to affect the operation of sensitive equipment. Rittal's LCP Rack DX or LCP Inline DX are the ideal cooling solutions in these locations.

In the past, cooling stand-alone IT applications was difficult with conventional ceiling or air-conditioning units. The LCP DX devices make it easy to support IT-compatible cooling while achieving exceptional partial load efficiencies using intelligent control and flexible configurations.

Introducing the New LCP DX 20 kW:

The NEW LCP DX provides 20 kW of cooling capacity and is available in closed loop Rack and open loop Inline. The LCP Rack DX is coupled with one or two enclosed racks allowing placement in non-controlled environments. The LCP Inline DX is the optimal choice for maintaining temperatures in re-purposed data rooms and server closets.

- Cooling output 20 kW
- Standard and high ambient condensers for all North American locations
- Small footprint due to innovative large surface area cooling design
- Easy maintenance with tool less EC fan replacement and easy access electrical connections
- High partial load efficiencies from the inverter controlled compressor which maintains set point temperature as heat loads vary
- Electronic expansion valve to quickly react to changing thermal loads and optimize system operation
- Redundancy achieved by inter-connecting up to 8 units

The LCP Rack and Inline DX 12kW:

The LCP DX 12 kW is also available in Rack and Inline versions and provide flexible and scalable cooling for small data centers. The Rack version is paired with NEMA 12 rated server racks for a completely stand-alone system in uncontrolled environments. The Inline version provides whole room cooling of racks and other equipment while maintaining optimal inlet temperatures. Redundancy is achieved through N+1 EC fans and a designated primary and backup LCP DX control scheme.

- Cooling output of 12 kW
- Highly efficient inverter controlled compressor
- Low environmental impact with R410a refrigerant
- Easy maintenance with hot swappable EC fans
- Protects sensitive equipment by rapidly responding to changing heat loads

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LCP Rack DX

Model No.	3311.415	3311.425	3311.392
Total cooling output/number of fan modules required BTU (kW)	40,946 (12)/4	40,946 (12)/4	40,946 (20)/4
Height inches (mm)	79 (2000)	79 (2000)	79 (2000)
Width inches (mm)	12 (300)	12 (300)	12 (300)
Depth inches (mm)	39 (1000)	47 (1200)	48 (1200)
Rated operating voltage V, ~, Hz	208, 1~, 60	208, 1~, 60	208, 1~, 60
Type of connection (electrical)	Terminal	Terminal	Terminal
Air throughput at max. cooling output cfm (m ³ /h)	2825 (4800)	2825 (4800)	2825 (4800)
Fans may be exchanged with the system operational	Yes, tooless	Yes, tooless	Yes, tooless
Fan type (Number of fan modules)	EC (4)	EC (4)	EC (4)
Duty cycle %	100	100	100
Weight in supplied state lb (kg)	399 (181.0)	399 (181.0)	443 (201)
Compressor type	Twin Rotary	Twin Rotary	Scroll
Piping (max) distance feet (m)	98 (30)	98 (30)	150 (45)
Accessories			
SNMP card	3311.320	3311.320	Included
Condenser unit	9951.077	9951.077	9951.077

LCP Inline DX

Model No.	3311.435	3311.445	3311.391
Total cooling output/number of fan modules required BTU (kW)	40,946 (12)/4	40,946 (12)/4	40,946 (20)/4
Height inches (mm)	79 (2000)	79 (2000)	79 (2000)
Width inches (mm)	12 (300)	12 (300)	12 (300)
Depth inches (mm)	39 (1000)	47 (1200)	48 (1200)
Rated operating voltage V, ~, Hz	208, 1~, 60	208, 1~, 60	208, 1~, 60
Type of connection (electrical)	Terminal	Terminal	Terminal
Air throughput at max. cooling output cfm (m ³ /h)	2825 (4800)	2825 (4800)	2825 (4800)
Fans may be exchanged with the system operational	Yes, tooless	Yes, tooless	Yes, tooless
Fan type (Number of fan modules)	EC (4)	EC (4)	EC (4)
Duty cycle %	100	100	100
Weight in supplied state lb (kg)	399 (181.0)	399 (181.0)	443 (201)
Compressor type	Twin Rotary	Twin Rotary	Scroll
Piping (max) distance feet (m)	98 (30)	98 (30)	150 (45)
Accessories			
SNMP card	3311.320	3311.320	Included
Condenser unit	9951.077	9951.077	9951.077

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