

DATASHEET
CoolSpot
Cooling Units

CONTEG

COOLSPOT COOLING UNITS



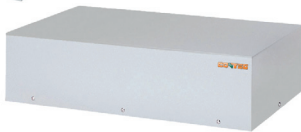
CoolSpot DX



➤ **CoolSpot** products are small cooling units designed for Conteg PREMIUM and OPTIMAL IT racks to provide the desired environment inside the rack. In spite of the fluctuating ambient conditions in the room, CoolSpot keeps a set temperature for IT equipment installed in the cabinet, which should be protected against dust and outside humidity (IP 54).



CoolSpot CW



MAIN ADVANTAGES

- Perfect separation of cold and hot zone
- Compatible with CONTEG racks RDF and RSF series
- No filters required
- Individual cooling control at the level of a single rack
- Cost effective cooling

SUITABLE FOR

- Remote communications rooms
- Site offices
- Telecommunications closets
- Racks with no or insufficient air conditioning
- Dusty space

DESCRIPTION

- Two different cooling principles—direct expansion with complete compressor circle inside (DX) and chilled water system (CW) connected to the building cold water piping system. Both cooling versions are produced in two basic designs for two different applications—Top Mount and Wall Mount.

- CoolSpot DX units include a complete refrigerant circuit with compressor, evaporator, condenser, and all necessary components and control systems. This air-condition is designed to deliver cooling capacity up to 6 kW for standalone cabinets. CoolSpot DX units are designed as Plug & Play

cooling system easy to use that requires only power supply, and condensate drainage. Cooling capacity of the cooling unit is controlled by EMB controller with a simply display to keep the set temperature in the rack.

- CoolSpot CW was developed for places where heat and noise from compressor could

be disturbing in the room. It requires connection to the chilled water piping system of the building. Cooling capacity of the cooling unit is controlled by 2-way valve inside to keep the set temperature in the rack cabinet.

COOLSPOT DX



CoolSpot DX—
Wall Mount Version



CoolSpot DX—
Top Mount Version

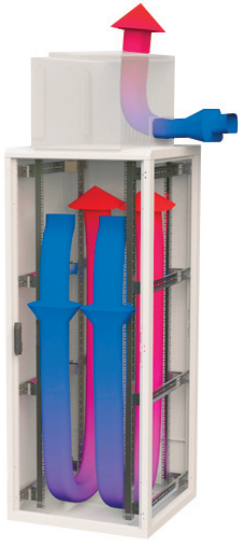
➤ **CoolSpot DX** unit is a standalone direct expansion solution with a compressor inside, which means that no additional plumbing or piping is required.

MAIN ADVANTAGES

- Complete refrigerant circuit is inside
- Equipped by condensate dissipater
- Triple condensate protection
- No filters required
- Top and wall mount solution
- Plug and play equipment, only power supply is needed

CoolSpot DX—Top Mount Version							
Direct expansion	Unit	AC-TM2-10	AC-TM2-14	AC-TM2-20	AC-TM2-28	AC-TM2-41	AC-TM2-60
Cooling capacity (L35L35)	W	900	1400	2000	2700	3800	5200
Cooling capacity (L35L50)	W	760	1170	1700	2300	2700	4100
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50
Width	mm	325	400	400	450	450	600
Height	mm	335	450	450	480	480	550
Depth	mm	600	600	600	800	800	800
Maximum current	A	3,2	5,2	5,7	7	9	4,6
Starting current	A	15	17	22	32	36	25
Prefuse	A	6	8	8	12	16	10
Power consumption	W	630	950	1200	1580	2000	2540
Rack airflow	m ³ /h	575	575	860	860	1450	1720
Rack temperature	°C	+25/+45	+25/+45	+25/+45	+25/+45	+25/+45	+25/+45
Ambient temp. limit	°C	+20/+55	+20/+55	+20/+55	+20/+55	+20/+55	+20/+55
IP rating	IP	54	54	54	54	54	54
Noise level	dB(A)	67	58	62	77	77	77
Weight	kg	32	48	51,5	74,5	76,5	94
Rack compatibility							
Width	cm	60, 80					
Height	U	all					
Depth	cm	80	80	80	80, 100, 120	80, 100, 120	100, 120

DETAILED TECHNICAL INFORMATION



Air flow through the rack—
CoolSpot DX TM version



Air flow through the rack—
CoolSpot DX WM version

CoolSpot DX

The CONTEG CoolSpot DX unit is a standalone direct expansion solution with a compressor inside, which means that no additional plumbing or piping is required. The condensate is removed thanks to a condensate dissipater (1.4 kW version and above) and water detection is guaranteed by a triple condensate protection system. This means that the condensation normally associated with air conditioning systems is reduced or eliminated, giving total flexibility for deployment. The special condenser coil design enables perfect operation without any air filter, which reduces maintenance costs.

CoolSpot DX units feature electronic control boards as standard, which allows for superior control of the air conditioner over standard electromechanical types. The electronic control board ensures that the CONTEG air conditioning units are running at optimal efficiency and not overcooling the cabinet.

When installing these units into closed areas always make sure that the room has sufficient clearance and adequate ventilation so that environmental operating conditions (up to 55 °C) are not exceeded.

CoolSpot cooling units are easily Integrated with the monitoring system RAMOS to provide remote notification about the temperature inside the rack.

CoolSpot DX Top Mount (AC-TM-xx)

Delivers exceptional cooling capacity without needing additional floor area required for a rack. The CoolSpot TM solution is available in capacities ranging from 0.9 kW to 5.2 kW to provide required cooling of the rack. The air conditioning unit is delivered with a special rack top-mount plate adapted to perfectly fit the selected size of the CoolSpot unit. These CoolSpot TM cooling units are compatible with the free-standing RSF and RDF rack series.

CoolSpot DX Wall Mount (AC-WM-xx)

Ideally suited for spaces where there is insufficient clearance to install a roof-mount solution. CONTEG CoolSpot WM solutions are available with capacities ranging from 0.4 kW to 4.0 kW per one cooling unit. Up to two CoolSpot WM cooling units can be fitted to one rack for desired redundancy and safety. The air-conditioning unit is delivered with a special rack side panel adapted to perfectly fit the selected CoolSpot unit size. These CoolSpot WM cooling units are compatible with the free-standing RSF and RDF rack series.



The standard warranty period is 12 months.
For more information visit www.conteg.com



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