

DATASHEET
Air-Conditioning
Unit
CoolSeven

CONTEG

PRECISION COOLING AND CONTROLLED AIRFLOW

COOLSEVEN AIR-CONDITIONING UNIT



PREMIUM RSF rack + CoolSeven unit

➤ The **CoolSeven** unit with direct expansion represents a type of unit with precision cooling inside racks. CoolSeven is a 7U tall indoor unit integrated into 19" racks and utilizing a split cooling system composed of two components—an indoor and an outdoor unit.

MAIN ADVANTAGES

- Unit is a direct expansion type which provides precision cooling inside racks
- Compatible with all 19" IT racks
- Individual cooling control on rack level
- EC fans with very low power consumption
- Heat dissipation directly from the racks to outside areas
- Precise and fluent cooling capacity control corresponding to air temperature
- A variant of the outdoor unit for very low temperatures is available
- Can operate without filters
- A wide selection of accessories
- Capable of communicating with a monitoring system (for example, CONTEG Pro Server)
- Emergency door opening function when the emergency temperature is exceeded. Compatible with the EOS—Emergency opening system.

SUITABLE FOR

- Office spaces
- IT racks or compact data centers (MCL—Modular closed loop)
- Racks with insufficient or no air-conditioning
- Dusty environments



CoolSeven

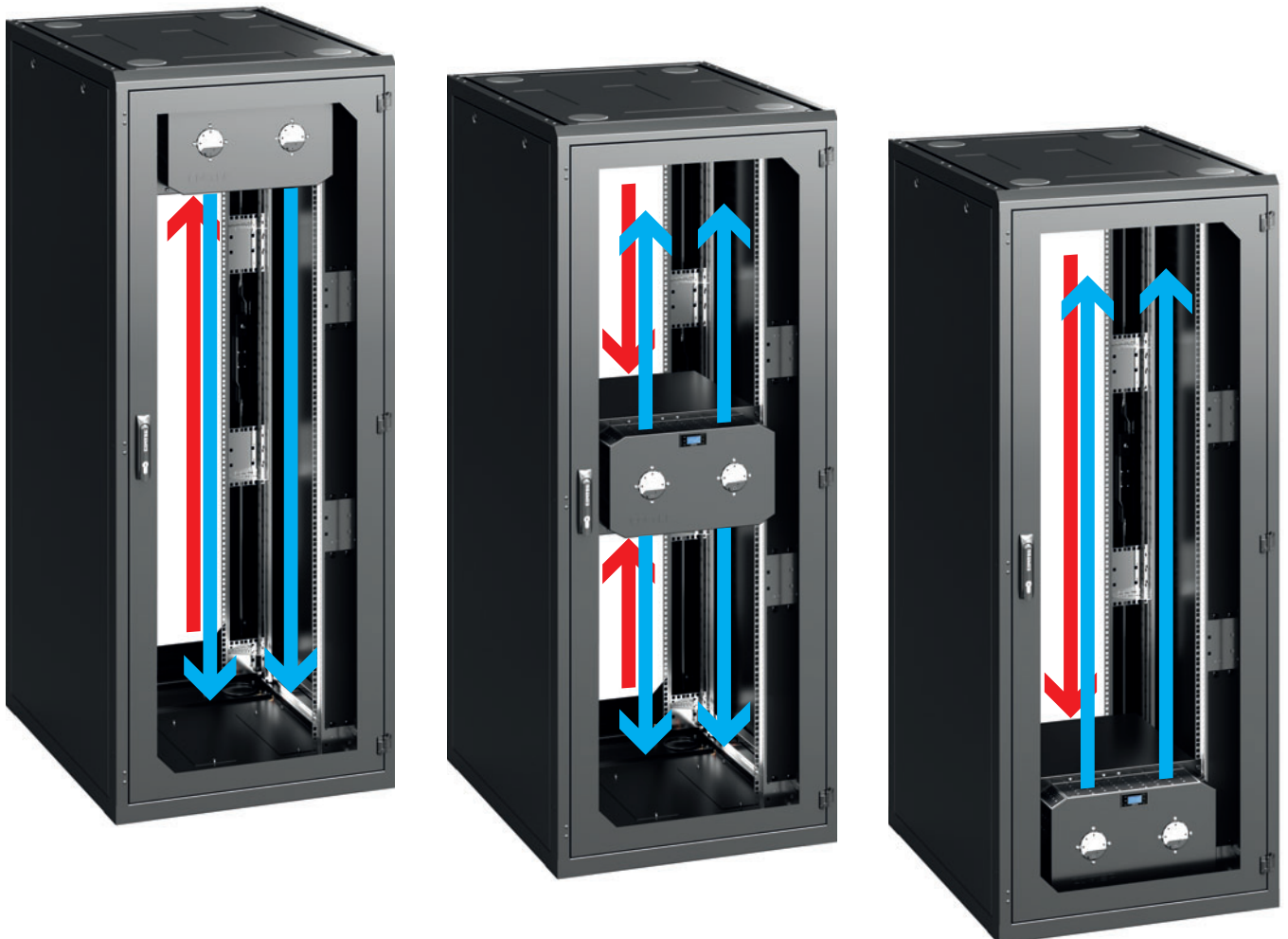
DESCRIPTION

- The CoolSeven unit operates on the direct expansion principle, circulating the coolant between the indoor and outdoor units. The outdoor compressor unit is equipped with a BLDC inverter compressor, which allows for automatic cooling capacity control (up to 8 kW). Thanks to the indoor and outdoor units being separated, there is no need for additional room air conditioning.
- The CoolSeven unit is designed for integration into 19" racks, with a height of seven rack units (7RU). Apart from the refrigerant piping, power supply and communications sources, the unit must also be connected to a condensate drainage.
- The highly efficient evaporator of the indoor air-conditioning unit features a special hydrophilic surface that retains condensate droplets, while the EC fans maintain very low power consumption.
- Airflow and cooling capacity are automatically controlled by an integrated control unit with proprietary CONTEG software. The unit is equipped with a compact LCD for checking and monitoring cooling parameters. To communicate with BMS systems, the unit is equipped with an integrated MODBus RTU interface; alternatively, the unit can also be equipped with a network card (SNMP, WEB server, Logger, E-mail, FTP PUSH, MODBus TCP/IP, BACnet...).
- Setting up the CoolSeven unit is very user-friendly, yet advanced, more complex functions are also available. Initial start-up and subsequent operation are therefore very easy and efficient.

COOLSEVEN—AC-C7-DX-XXXXXXX

Indoor unit	Code	AC-C7-DX-xxxxxxx
Connected outdoor unit	Code	AC-ODX-07-xxxxx
Cooling system		Direct expansion
Architecture		Open/closed
Capacity regulation		11-100 %
Nominal cooling capacity	kW	8,1
Nominal net cooling capacity	kW	7,5
Power supply	V/ph/Hz	230/1/50-60
Running current *	A	2,6
Maximum current	A	2,7
Nominal power consumption *	W	613
Maximum air flow	m ³ /h	1791
Number of fans	pcs	2
Motor fan technology		EC
Refrigerant type		R410A
Filter class		without filter
Sound pressure level Lw(A) **	dB	30-52
Width	mm (in)	482,6 (19" installation)
Height	mm (U)	311 (7U installation)
Depth	mm	624
Weight	kg	29,8
Supply pipe diameter and type	mm	12
Return pipe diameter and type	mm	16

* Values at stable 80% output. ** Depends on rack and fans' RPM.



ACCESSORIES

LCD DISPLAY

The unit is equipped with a compact LCD for checking and monitoring cooling parameters.



CONDENSATE PUMP

- All CONTEG units can be connected to a standard gravity drainage system.
- If such a system is not available, it is possible to drain water with a condensate pump.
- Each unit equipped with a pump includes a water level sensor to start the pump.
- Units without a pump are always equipped

with a water level sensor capable of powering down the unit when the water level in the condenser reaches a critical level, triggering an alarm.



DUAL POWER SUPPLY

- Electrical switchboard for two power supply systems.
- This device allows the unit to be supplied from two independent sources.

"pCO WEB" COMMUNICATION CARD

- Enables additional individual communication (monitoring and control).
- Communication via Ethernet network protocols.
- Functions: Web server, E-mail, FTP, SNMP, BACNet, ModBus TCP/IP and others.



Part number on request.

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