DATASHEET
Condensing Units
CoolOut

CONTEG

COOLOUT CONDENSING UNITS

CoolOut—front view

> The **CoolOut** outdoor condensing units are specially designed for conducting heat out of data centers. The units meet all the strict demands on precision, stability and service life required for data centers.

MAIN BENEFITS

> Advanced communication and cooling regulation based on commands from the data center
> Very low consumption thanks to high-quality EC fans and active regulation of condensing pressure
> Inverter-controlled BLDC compressor
> Wide range of cooling power from 11 % upwards
> Versions for extreme ambient temperatures available
> Robust frame and housing made of high-quality corrosion-resistant materials
> Ability to communicate with a monitoring system (SNMP, Modbus TCP, Modbus RS485)
> Ability to monitor and control operating parameters through the indoor unit
> Simple to install and operate
> Option for remote servicing after connecting a PGDx service display
> Specially designed for precision cooling
> Linear electronic expansion valve

SUITABLE FOR

> Wide range of ambient conditions
> Installations emphasizing economical and reliable operation
> Compatible with CONTEG's CoolTeg DX, CoolTop DX and CoolSeven cooling units

CoolOut—rear view

DESCRIPTION

- CoolOut is an outdoor condensing unit designed for precision compression cooling. The units are fitted with an inverter-controlled rotary DC compressor.
- Thanks to the use of hot gas bypass technology, the unit's cooling power can be adjusted from 11 % of total cooling power upwards regardless of outdoor conditions.

- The use of a specially designed condenser, EC fans and a system of dynamic control of condensing pressure allowed minimizing the power consumption and noise emissions of the cooling unit.
- The running of the unit and correct functioning of all its parts is overseen by a built-in regulator with special CONTEG software.

The regulator also ensures communication with the indoor unit via Fieldbus protocol. Basic information about the running of the outdoor unit can be tracked through the indoor unit.

- The design of the condensing unit allows its mounting onto the floor or a wall.

- CoolOut units are highly user--friendly in their setup and operation. Initialization and operation is very simple.

		AC-ODX-07-XXXXXXX	AC-ODX-07-SXXXXXX	AC-ODX-25-XXXXXXX
Operating conditions	°C	−20 to +47 °C	−20 to +55 °C	−20 to +47 °C
Operating conditions [4]	°C	−40 to +47 °C	−	−40 to +47 °C
Power regulation		Smooth 11–100%	Smooth 11–100 %	Smooth 11–100%
Rated cooling power	kW	8.1	8.1	26
Power supply	V/ph/Hz	230/1/50-60	230/1/50-60	400/3/50-60
Operating current [1]	A	8.84	10.4	11.28
Maximum current	A	12.8	17.5	17
Rated input power [1]	kW	2.03	2.39	8.2
Compressor control		BLDC inverter	BLDC inverter	BLDC inverter
Coolant regulation		Linear expansion valve	Linear expansion valve	Linear expansion valve
R410A coolant capacity [2]	kg	0	0	0
Acoustic pressure Lp(A) [1]	dBA	44	63	50
Dimensions/weight				
Width	mm	1200	1200	1400
Depth	mm	400	400	450
Height [3]	mm	996	996	1200
Weight	kg	72	99	130
Piping connection				
Fluid piping (diameter)	mm	12	12	12
Gas piping (diameter)	mm	16	16	22
Max. piping length	m	75	75	85
Max. difference in elevation	m	50	50	50

[1] Values at stabilized 80 % output.   [2] Without coolant, filled in during installation.   [3] Including the profile for mounting the condensing unit.   [4] If fitted with winter-kit accessories.
The values shown may vary depending on the current product innovation.
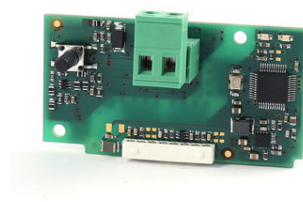
COOLOUT CONDENSING UNITS

ACCESSORIES

DUAL POWER SUPPLY
- Electrical distributor for two power supply branches.
- The device allows powering a unit from two separate power sources.

RS485 BMS COMMUNICATION CARD
- Optically insulated card allowing communication with a unit via Modbus RTU protocol.

pCO WEB COMMUNICATION CARD
- Allows further individual communication (monitoring and control).
- Communication via Ethernet network protocols.
- Functions: web server, e-mail, FTP, SNMP, BACNet, ModBus TCP/IP and more.

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