DATASHEET

CRAC
Room Cooling
System

CONTEG

TARGETED COOLING AND AIRFLOW MANAGEMENT

CRAC ROOM COOLING SYSTEM

CRAC indoor room cooling unit is based on the principle of compressor cooling and direct evaporation. The compressor is integrated into the indoor unit, which is connected to its external condenser unit.

MAIN ADVANTAGES

- Variable installation options for the unit with fan module and air outlet into the raised floor or above the floor
- Operation in temperatures from –40 °C up to +55 °C
- Regulation between 17–100 % cooling capacity
- No water in data center
- Compressor safely positioned inside the data center
- Variable design of outdoor unit (with regards to temperature, space, noise level, etc.)
- R410A refrigerant

COLOR: RAL 9005 RAL 7035

CRAC (Preliminary data—expected launch in 2023.)		
Indoor unit code	Unit	AC-CRAx-x
Connected outdoor unit code		AC-CONDx-xx-xx
Basic data		
Cooling system	-	Direct evaporation
Architecture	-	Down flow/Under flow/Front flow
Nominal cooling capacity [1]	kW	43.4
Nominal net cooling capacity [2]	kW	42.6
Power supply	V/ph/Hz	400/3/50-60
Running current	A	18.1
Maximum current	A	25.9
Fan power consumption (maximum)	kW	1.3
Compressor power consumption	kW	9.95
Nominal airflow [3]	m^3/h	10 300
Number of radial fans	pcs	1
Motor fan technology	-	EC
Refrigerant type	-	R410A
Filter class		G4
Dimensions		
Height	mm	2 023
Width	mm	1 400
Depth	mm	800
Weight	kg	352
Piping connection		
Piping diameter—liquid line	mm	16
Piping diameter—gas line	mm	22

[1] Cooling capacity is changed by the controller. Nominal cooling capacity is calculated at an internal hot air temperature of 35 °C without condensation. [2] Net useful cooling capacity is the total cooling capacity minus the heat load of the fans. Useful cooling capacity of the unit. [3] The air flow rate is changed automatically by the controller. The nominal airflow corresponds to the rated cooling capacity.

FOR CRAC ROOM COOLING SYSTEM

OUTDOOR AIR-COOLED **CONDENSERS**

Outdoor air-cooled condensers dissipate the data center heat-load to the ambient. Indoor unit is designed so it's able to cooperate with the widest field of condensers. It allows customer to select the type which perfectly fits the requirements.

Recommended **condensers for CRAC** are listed in the table below. They are sorted according to the maximum ambient temperature.

AIR-COOLED FINS AND TUBES											
Indoor unit	Max. temp.	CONTEG P/N	Sound pressure level		Number of fans	Power supply			Length (mm)	Width (mm)	Height (mm)	Weight (kg)
			Lw(A)	Lp(A) 10m		ph/V/Hz	A	kW				
CRAC	35 °C	AC-COND2-03-35	87 dB	56 dB	2	3/400/50-60	4,2	2,59	1884	888	957	158
CRAC	45 °C	AC-COND2-02-45	93 dB	61 dB	2	3/400/50-60	6,2	4,02	2 484	1088	961	236
CRAC	55 °C	AC-COND2-03-55	96 dB	64 dB	2	3/400/50-60	8,6	5,77	2 484	1088	961	267

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