Rittal –
CRAC systems

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CRAC systems

Fresh power for data centres and server rooms

Modern IT climate control technology ensures optimum thermal conditions in rooms exposed to high loads, such as data centres and server rooms. The main aim here is to ensure constant temperatures and precise humidity levels.

Continuous-operation designs and redundant systems ensure that all key functions are maintained.

Rittal CRAC systems dissipate waste heat from the IT equipment on demand, ensuring that the overall system operates in the most energy-saving way possible.

The fan is positioned inside the raised floor. This facilitates a larger heat exchanger area, as well as a larger filter area. This configuration is designed to minimise internal installation and deflection losses. In turn, the reduced power consumption produces considerable energy savings.

Model No. SK		3301.620	3301.660	3301.830	3301.870	3300.510	3300.560	3300.710	3300.760
Useful cooling output[1]		**23 kW**	**39 kW**	**78 kW**	**118 kW**	**18 kW**	**30 kW**	**43 kW**	**54 kW**
Operating voltage Volt/Hz		400/500	400/500	400/500	400/500	400/500	400/500	400/500	400/500
Dimensions mm	W	1100	1100	1800	2600	1100	1100	1400	1800
	H	1950	1950	1950	1950	1950	1950	1950	1950
	D	650	850	850	850	850	850	850	850
Cooling medium		Water[2]				Refrigerant R407c[2]			
Volumetric airflow at an external pressure loss of 20 Pa		6000 m³/h	11000 m³/h	22000 m³/h	33000 m³/h	6000 m³/h	8500 m³/h	12500 m³/h	16000 m³/h

[1] Output figures less heat from the fans.
   CW: 26°C/45% air inlet and 10°C/15°C water temperatures DX: 26°C/45% air inlet and 50°C condensation temperature
[2] Other media available on request.
Other options available on request. We reserve the right to make technical modifications.

Benefits:
- The unit is available in a broad output range, and for a variety of cooling media.
- The unit supports optimum integration of both hardware and software.
- Optimum energy and space efficiency thanks to intelligent design features, such as the slanted heat exchanger and base-integrated fan.
- Frame based on the popular TS 8 system.

Functional principle:
The CRAC system draws warm waste air from the top of your data centre, cools it with either water or refrigerant in a closed heat exchanger, and blows the cooled, filtered supply air into the unit's floor with overpressure.

Equipment:
User-friendly, high-quality control with an extensive range of functions and connectivity. Space-saving, readily accessible, high-efficiency fan. Flow and energy-optimised special heat exchanger with a generous safety factor.

The standard scope of the system includes the enclosure and the supporting structure for integration into a raised floor, as well as an autonomous controller with graphic display and the integrated filters.

Pre-defined component lists permit the project-specific integration of additional options such as a humidifier, an electric heater, diverse interfaces (BACnet, RS485…), etc.

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