## **Water Cooling Station**

C-series with water de-ionizing system

**Compact Cooling Station - CCE Compact Cooling Cabinet - CCC** 

Data sheet 1(1)

## Operation

Cooling station circulates coolant between power electronics and heat exchanger. 3-way valve is used to ensure constant temperature. The cooling station is controlled by PLC system. The cooling station can be integrated with water to water heat exchanger or with external water to air heat exchanger. The station can be delivered with an electrical heater to ensure constant temperature during start-up in cold conditions. Cooling station can be ordered with or without control system.

## **Benefits**

- · Easy to integrate with the cooling circuit
- Minimum footprint need Typical installation is inside 600x1000 mm Rittal cabinet. Can be installed also to separated 600x600 and 600x400 mm Rittal cabinets.
- Fast and easy commissioning (automatic de-aeration and visual coolant level indication)
- Stainless steel industrial pumps and copper free materials ensure long and reliable operation
- Use of hydraulic block technique minimizes the possibility of leaks
- · Minimum service needed

## **Technical details**

Cooling capacity up to 300 kW
Coolant flow up to 750 l/min

Expansion tank 12 liters, stainless steel

De-ionizing tank 17 liters, fulfilled by de-ionizing resins

Change interval of resins 2-5 years de pending on water hardness and materials in cooling circuit

Filter 10" with 50 µm/abs changeable element

Change interval 2-5 years

Water Connections CCE10x: R11/2" female

CCE15x: R2" female CCE32x: R2<sup>1</sup>/<sub>2</sub>" female

The connections for water to water heat

exchanger depending on size.

Instrumentation Temperature sensors (2 pcs)

Pressure sensors (2 pcs) Coolant level indicator Coolant level alarms (2 pcs)

Materials Stainless steel and aluminum

All materials are copper free

No surface coatings

Coolant De-ionized water-glycol mixture Interfaces for Water to water heat exchanger

water lines Cooling manifolds

Options - Electrical heater

- External pipelines

External flexible steel hoses
Water conductivity measuring
Flow metering of de-ionizing system

Profinet, Profibus or ModbusHMI with touch screen

