

Water Cooling Station

Cabinet Cooling Station

VCA10x

Data sheet 1(2)

Cabinet Cooling Station VCA10x

Cabinet Cooling Station VCA for closed loop water cooling systems is built in Rittal TS-8 cubicle. The station is designed to be situated next to the electrical cabinets and for applications where easy installation is needed. The use of space is most efficient and the width of the station is only 40 or 80 cm. The maintenance is easy due to moveable cooling module which is a big advantage especially in marine applications. Single and redundant pump solutions are available.

Operation

The cooling station circulates coolant between cooled power electronics and heat exchanger. The water to water heat exchanger can be integrated to the station or the external water to air heat exchanger can be mounted. The station can be delivered with 3-way valve and electrical heater to ensure constant temperature also in cold conditions. The cooling station is operated locally on touch panel and PLC with sophisticated program controls all functions. Optionally profibus connection to upper control system is available.

Benefits

- Minimum foot print need
- Fast and easy commissioning (automatic de-aeration and visual coolant level indication)
- Pump module can be pulled out for easy service
- Pump module is fast to replace

Main dimensions	Single pump VCA10xS	Redundant pump VCA10xR
Width (mm)	400	800
Height (mm)	2000	2000
Depth (mm)	600	600

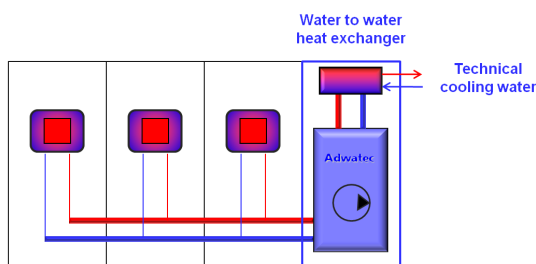


VCA10x Redundant Pump

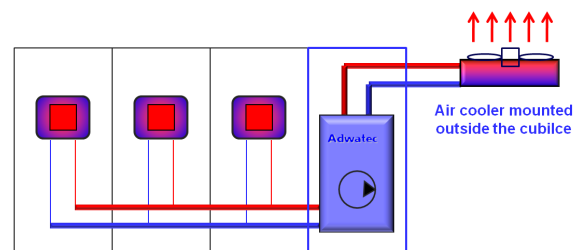
Technical details

Cooling capacity	up to 150 kW
Coolant flow	up to 300 l/min
Expansion tank	12 liters, stainless steel
Water connections	Pipe 48,3 mm (DN40)
Instrumentation	Temperature sensors Pressure sensors Coolant level indicator Coolant level alarm
Materials	Stainless steel and aluminum All materials are copper free No surface coatings
Coolant	Water De-ionized water Water-glycol mixture

Typical installations



Cooling station with integrated water to water heat exchanger



Cooling station with external water to air heat exchanger