

## SVC Cooling Station NCU

SVC Cooling Station NCU is designed primarily for static var compensator and also for heavy industry and renewable energy applications where medium and high voltages are used. The cooling power and coolant flow can be chosen in wide range to optimize the station for each purpose. Critical functions like pump and if necessary also sensors and control system can be duplicated giving high reliability.

### Operation

The cooling station circulates coolant between cooled power electronics and heat exchanger. The station can be connected to internal water to water or external water to air heat exchanger. Control system gives full operational information locally on touch panel and by fieldbus connection to upper control system. Water treatment is used to purify and keep the coolant conductivity under the limit value for medium and high voltage systems. In cold conditions glycol can be added to the coolant.



### Benefits

- Variety of requirements in medium and high voltage applications can be fulfilled
- Fast and easy commissioning and service (automatic de-aeration and visual coolant level indication)
- Stainless steel industrial pump and copper free materials ensure long and reliable function
- Easy handling and minimum risk of leakage due to simple construction

### Technical details

Cooling capacity	100... 500 kW
Coolant flow	200...600l/min
Supply voltage	3 x380-415 VAC, 50 Hz 3 x 380-480 VAC, 60Hz
Expansion tank	93 liters, stainless steel
Water connections	DN50/ DN65 flanges
Instrumentation	Temperature sensor Pressure sensor Coolant level indicator Coolant level alarm Coolant treatment
Materials	Stainless steel and aluminum All materials are copper free No surface coatings
Coolant	Water De-ionized water Water glycol mixtures