SVC Cooling Station NCL

SVC Cooling Station NCL is designed primarily for static var compensator and HVDC/HVAC 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
  - Minimum amount of on-site cabling and installation work
  - Automatic de-aeration
  - 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: 500...2000 kW
- Coolant flow: 600...2000/min
- Supply voltage: 3 x380-415 VAC, 50 Hz
- Expansion tank: 400 liters, stainless steel
- Water connections: DN80/ DN100 flanges
- Instrumentation: Temperature sensor, Pressure sensor, Coolant level indicator, Coolant level alarm, Coolant treatment
- Materials: Stainless steel, Hi-tech plastics, No surface coatings
- Coolant: Water, De-ionized water, Water glycol mixtures