

## Vertiv<sup>™</sup> Liquid Cooling Services.

Enhance facility reliability by preventing downtime, extending equipment lifespan, and sustaining thermal stability in high-performance computing environments with Vertiv's comprehensive liquid cooling services.



#### Getting started with Liquid Cooling Services



#### Consultation & assessment

Supporting the architecture of the liquid cooling solution, we work closely with you to gather requirements and provide designs suited to your needs.



#### Installation & integration

Prioritizing thorough validation of the installation of all liquid cooling components to help deliver a seamless start-up process.



#### Commissioning

Test, train, and handover. By performing all necessary testing and delivering comprehensive training, we seamlessly transition the solution into your operations.



#### **Recurring services**

Lifecycle maintenance services. Ongoing services to maintain operational continuity and to support the uptime of these critical systems.

#### Reliability through our extensive global network

Vertiv's strong global footprint and network of certified technicians enables us to support large-scale deployments world-wide with consistent quality and quick responsiveness.

#### Optimize operations with end-to-end lifecycle support

Providing a holistic suite of services including installation, startup, system commissioning, maintenance, fluid management, and digital management for smooth and optimized operation of your liquid cooling systems.

#### Save time when leveraging world-class expertise

Digitally-enabled and swift diagnosis, prompt technician assignment, and guaranteed on-site response, all delivered by highly skilled technicians who are experts in liquid cooling equipment.

### Fluid Management, Lifecycle Services

#### **Sampling**





# Vertiv trained Engineers collecting coolant fluid samples\*:

- Seal coolant fluid containers securely to prevent leakage
- Label appropriately the coolant fluid containers
- Submit fluid samples to appropriated testing lab address, to have analyzed for correct chemistry, levels of inhibitors and biocides 1, 2
- Check make-up bag is full, properly connected & purged of air
- Check secondary filter clogging
- Remove, clean secondary filter(s) if necessary, check filter new pressure values

#### **Testing**





Fluid analysis performed by the fluid manufacturer or authorized 3rd part testing lab\*.

- Quantity (1/2/4) of secondary fluid testing to be agreed upon by Vertiv and the customer.
- Provide fluid analysis results
- Maintain database of testing results
- Define recommended remediation activities (Flush and Fill, adding booster or inhibitors, etc.) based on results

#### **Remedial 1**





Corrective actions on site based on testing results, performed by Vertiv trained Engineers based on addition of boosters\*:

- System Preparation (verify liquid level)
- Booster preparation (injector cleaning)
- Booster Injection
- Parameters check

#### **Remedial 2**





Corrective actions on site based on testing results, performed by Vertiv trained Engineers based on addition of Coolant refreshment and boosters\*:

- Coolant removal (Circuit discharge)
- Waste collection and Unit Cleaning
- Unit Charge and Sample collection
- Parameters Check





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