



Vertiv™ CDU Project Services.

Vertiv offers project services for their CoolChip CDU (Coolant Distribution Unit) solutions, encompassing design, deployment, and ongoing lifecycle and fluid management, supporting liquid-cooled infrastructure for high-density data centers and colocation environments.



Quality Inspection



Vertiv Engineers, providing guidance on the proper installation of the system, including*:

- Check Vertiv documents
- Check compliance of unit stocking area/ installation area
- Follow up on discrepancy/damage vs Vertiv documents
- Check compliance of Primary/Secondary Fluid Network circuits
- Check compliance of the DCD doors
- Review site for acceptance testing requirements, load bank placement, etc., as applicable.
- Support in the definition of a remediation plan in case of identified installation anomalies
- Fill and share the XDU pre-commissioning VERTIV report

Startup



Vertiv Engineers providing hardware and software settings, functional testing, and final report, via*:

- Checking power supply is within tolerance
- Powering and starting up of units
- Verifying/Set software configuration settings.
- Unit filling
- Verify proper functionality of system components
- Check primary / secondary circuit main parameters
- Check functionality of leak detection tape
- Inspect tray, cores, caps, clamps, and cabinet panels
- Clean water deposits, ensure rubber buffers are in place
- Configure teamworking settings
- Perform connectivity test with BMS

Startup validation/finalization



Vertiv Engineers, providing guidance on the start-up of the system, including*:

- Follow up of the Quality inspection
- Follow up on discrepancies vs Vertiv startup documentation
- Check XDU operating conditions
- Check DCD doors operating conditions (if applicable)
- Check Primary and Secondary Fluid Circuit operating conditions
- Report any encountered factory or field issues.
- Support to define a remediation plan (if needed)
- Review site for acceptance testing requirements

Project Management

Capability Map

		AC Power	DC Power	Thermal Management	Switchgear & Busway
Commissioning Phase	Technical activities	Project Management			
Pre-Project activity	<ul style="list-style-type: none"> • Commissioning Spec & Plan • Engineering • Design Review • Schedule Integration • Submittal Review • Commissioning Procedure • Commissioning Kick-off 	<ul style="list-style-type: none"> • Project Charter / Project Initiation Docs • Identify Stakeholder 			
Level 0 Program and Design		<ul style="list-style-type: none"> • Work Breakdown Structure (WBS) • Supply Chain & Procurement Management Plan • Project Team Creation • Create Risk Management Plan 	<ul style="list-style-type: none"> • Create Communication Management Plan • Create Change Management Plan • Create Project Schedule • Health & Safety Assessment • Kick-Off meeting with Customer 		
Level 1 Factory Witness Test	<ul style="list-style-type: none"> • Factory Witness Test 				
Level 2 Delivery, QA/QC, Installation Assembly, Field Supervision	<ul style="list-style-type: none"> • Site Acceptance Inspection • Delivery & Assembly • Equipment Installation • Quality inspection 	<ul style="list-style-type: none"> • Flushing • Pressure test • Filling 	<ul style="list-style-type: none"> • Supply Chain & Procurement Management • Execute Project Plan • Schedule On-Site Resource Management • Facilitate Team Meetings & Distributed Minutes • Health & Safety Management 		<ul style="list-style-type: none"> • Manage Issues, Changes & Risks • Report Project Status • Contract, Financial & Quality Review • Health & Safety Review
Level 3 Start-up and Site Acceptance Test	<ul style="list-style-type: none"> • Installation & Startup • Pre-Functional Equipment Verification • Startup Finalization • Site Acceptance Test 				
Level 4 Functional Performance Testing	<ul style="list-style-type: none"> • Functional Performance Test 				
Level 5 Integrated System Test Support	<ul style="list-style-type: none"> • Integrated System Test • Training & O&M Verification 				
Level 6 Close Out & Turn-over	<ul style="list-style-type: none"> • System Manual • Seasonal Testing • Warranty Review & Supplemental Report • Commissioning Report 	<ul style="list-style-type: none"> • Customer Acceptance • Handover to Operation & Maintenance • Lessons Learned • Financial Closure • Project Closure 			

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