

液冷项目输入清单

在选择冷板、歧管或 CDU 之前，先确认以下边界。未确认项目应标记责任人和计划日期。

01 热负载与设备

[]	服务器和机架数量、当前及规划功率	Owner / Date: _____
[]	CPU/GPU 等热源热图、封装和安装限制	Owner / Date: _____
[]	目标液冷捕获比例与残余空气热	Owner / Date: _____
[]	允许结温、降载和关机边界	Owner / Date: _____

02 技术冷却系统 TCS

[]	冷却液类型、供回液温度和允许温升	Owner / Date: _____
[]	每节点及总流量、允许压降、工作压力	Owner / Date: _____
[]	润湿材料、过滤、补液和取样要求	Owner / Date: _____
[]	支路隔离、排气、排液和扩容方式	Owner / Date: _____

03 CDU 与设施接口

[]	液液或液气路线、部署层级和故障域	Owner / Date: _____
[]	设施水温度、流量、压力、水质和可用性	Owner / Date: _____
[]	换热器接近温差、泵工作点和冗余对象	Owner / Date: _____
[]	电源、通信、BMS/DCIM 和维护空间	Owner / Date: _____

04 验证与交付

[]	热水力、承压、泄漏和材料兼容计划	Owner / Date: _____
[]	凝露、失流、堵塞、失电和通信异常	Owner / Date: _____
[]	冲洗、充液、排气、联锁和带载验收	Owner / Date: _____
[]	原始数据、版本、偏差关闭和培训记录	Owner / Date: _____

说明：本清单用于项目输入和评审，不构成产品容量、性能或交付承诺。最终参数以批准的项目规范、产品版本和测试记录为准。

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Liquid-cooling project input checklist

Confirm these boundaries before selecting cold plates, manifolds or a CDU. Assign an owner and due date to every open item.

01 HEAT LOAD AND ITE

☐	Server and rack count, present and planned power	Owner / Date: _____
☐	CPU/GPU heat maps, package and mounting limits	Owner / Date: _____
☐	Target liquid-capture ratio and residual air load	Owner / Date: _____
☐	Junction-temperature, derating and shutdown boundaries	Owner / Date: _____

02 TECHNOLOGY COOLING SYSTEM

☐	Coolant, supply-return temperatures and allowable rise	Owner / Date: _____
☐	Node and total flow, pressure drop and operating pressure	Owner / Date: _____
☐	Wetted materials, filtration, make-up and sampling	Owner / Date: _____
☐	Branch isolation, venting, draining and expansion	Owner / Date: _____

03 CDU AND FACILITY

☐	L2L or L2A route, deployment level and fault domain	Owner / Date: _____
☐	Facility-water temperature, flow, pressure, quality and availability	Owner / Date: _____
☐	Heat-exchanger approach, pump point and exact redundant elements	Owner / Date: _____
☐	Power, communications, BMS/DCIM and service clearances	Owner / Date: _____

04 VALIDATION AND DELIVERY

☐	Thermal-hydraulic, pressure, leak and compatibility plan	Owner / Date: _____
☐	Condensation, loss of flow, blockage, power and communications faults	Owner / Date: _____
☐	Flushing, filling, venting, interlocks and loaded acceptance	Owner / Date: _____
☐	Raw data, version, issue closure and operator training	Owner / Date: _____

Note: this checklist supports project definition and review. It is not a product capacity, performance or delivery commitment. Final parameters depend on approved project specifications, product versions and test records.