
LIANLI 联力
PRODUCT
BROCHURES
产品宣传册


LIANLI 联力

LIANLI链力® | necool

东莞市链力电子科技有限公司
Dongguan Lianli Electronic Technology Co., Ltd.

深圳市链力液冷设备技术有限公司
Shenzhen Lianli Liquid Cooling Equipment Technology Co., Ltd.

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算力方舱
Modular Computing Power container

- 20尺算力方舱1.2MW
  20HC 1.2MW computing power Container
- 40尺算力方舱2.4MW
  40HC 2.4MW computing power Container
- 20尺算力方舱2.0MW
  20HC 2.0MW computing power Container
- 40尺算力方舱3.0MW
  40HC 3.0MW computing power Container
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  20HC 1.4MW computing power Container
- 40尺算力方舱2.4MW
  40HC 2.4MW computing power Container
- 20-40尺算力方舱0.8-2.0MW浸没式
  20-40HC 0.8-2.0MW immersion cooling Container

散热方案
Cooling Solution

- 干冷器
  Dry Cooling Tower
- 闭式塔
  Closed Water Tower
- 板换式
  Plate Heat Exchanger (PHE)

数据中心
Data Center

- 机柜式方案
  Cabinet-based Cooling Solution
- 方舱式方案
  Containerized Cooling Solution
- 浸没式方案
  Immersion Cooling Solution

链力液冷引领全球
Lianli liquid cooling leads the world

海外市场资质认证
Overseas market certification

COMPANY PROFILE
公司简介

链力科技
Lianli Tech

智能液冷技术领航者
Pioneering Intelligent Liquid Cooling Solutions

东莞链力电子科技有限公司成立于2014年，总部位于东莞清溪镇，分公司位于深圳龙岗区富通海智科技园。作为领先的液冷散热方案提供商，公司专注于液冷散热设备的研发、生产及数据中心全链条液冷解决方案部署，致力于云计算数据中心、服务器机柜、通讯网络设备、储能电站以及工业环境温控系统提供散热解决方案。

凭借自主研发的液冷技术，链力科技可将数据中心PUE降至1.1以下，实现节能40%以上，大幅降低客户运营成本。目前，公司产品及方案已服务于全球100多个国家/地区，累计部署超500万套散热设备，落地项目总功率突破2000MW。

公司产品严格遵循国际标准，已通过RoHS、CE、UL、CCS等多项权威认证，并拥有数十项自主研发专利。链力科技凭借创新技术，荣获2025中国电子信息博览会技术创新奖，进一步巩固了在液冷行业领先地位。未来，公司将持续深化技术研发，推动数据中心液冷技术的普及，助力全球绿色低碳发展。

Dongguan Lianli Electronic Technology Co., Ltd. was established in 2014 and is headquartered in Qingxi Town, Dongguan, with a branch office located in Futong Haizhi Technology Park, Longgang District, Shenzhen. As a leading provider of liquid cooling solutions, LIANLI specializes in the R&D, production, and deployment of full-chain liquid cooling solutions for data centers, and focus on providing cooling solutions for cloud computing data centers, server cabinets, communications network equipment, energy storage power stations, and industrial temperature control systems.

By leveraging its independently developed liquid cooling technology, Lianli can reduce data center power usage effectiveness (PUE) to below 1.1, achieving energy savings of over 40%, significantly lowering customers' operating costs. Currently, the company's products and solutions have served more than 100 countries and regions worldwide, with cumulative deployments over 5 million cooling units and total power capacity of landed project exceeding 2,000MW.

The LIANLI's products strictly adhere to international standards and have passed numerous certifications, including RoHS, CE, UL, and CCS, alongside dozens of independently developed patents. Recognized for its innovation, Lianli Technology was awarded the "Technology Innovation Award "at the 2025 China Information Technology Expo, further solidifying its leading position in the liquid cooling industry. In the future, the company will continue to deepentechnological R&D, promote the popularization of data center liquid cooling technology, and contribute to global green and low-carbon development

1700 万
RMB 17 million
注册资金
Registered capital

- 全栈自研液冷技术
  Full stack self-developed liquid cooling technology
- AI算法毫秒温控
  AI algorithm millisecond temperature control
- 全场景 PLC客制化
  Full-scenario PLC customization
- 全球头部客户验证
  Verified by global leading customers

12,000㎡+
研发制造基地
R&D and manufacturing base

3000套+
3,000 sets
年产能集装箱
Computing power container

5万套+
50000 sets
机柜
cabinets

20万+
200000 pieces
其他配件
of other accessories

10人+
10 people
研发团队
With R&D team

CNAS实验室
CNAS laboratory
保障产品可靠性
ensures product reliability

CPU冷板 CPU Cold Plate

产品名称Item	CPU冷板 CPU Cold Plate		
适配平台 Application	intel	AMD	国产 Domestic
热设计功耗 Thermal Design Power (TDP)	385W	400W	400W
工质要求 working substance Requirement	PG25	PG25	PG25
供水温度 Coolant Supply Temperature	40°C	40°C	40°C
供水流量 Coolant Supply Flow Rate	1L/min	1L/min	1L/min
冷板流阻 Cold Plate Flow Resistance	10Kpa	10Kpa	10Kpa
主题材料 Main Material	紫铜 Pure copper	紫铜 Pure copper	紫铜 Pure copper
规格接口 Interface Specification	G1/4"螺纹 G1/4"Thread	G1/4"螺纹 G1/4"Thread	G1/4"螺纹 G1/4"Thread
工作压力 Operating Pressure	3-5bar	3-5bar	3-5bar
最高压力 Max Pressure	2.5Mpa	2.5Mpa	2.5Mpa

GPU冷板 GPU Cold Plate

产品名称Item	GPU冷板 GPU Cold Plate			
适配平台 Application	NVIDIA	昇腾	AMD	沐曦
热设计功耗 Thermal Design Power (TDP)	1000W	1000W	1000W	1000W
工质要求 working substance Requirement	PG25	PG25	PG25	PG25
供水温度 Coolant Supply Temperature	40°C	40°C	40°C	40°C
供水流量 Coolant Supply Flow Rate	1L/min	1L/min	1L/min	1L/min
冷板流阻 Cold Plate Flow Resistance	10Kpa	10Kpa	10Kpa	10Kpa
主题材料 Main Material	紫铜 Pure copper	紫铜 Pure copper	紫铜 Pure copper	紫铜 Pure copper
规格接口 Interface Specification	G1/4"螺纹 G1/4"Thread	G1/4"螺纹 G1/4"Thread	G1/4"螺纹 G1/4"Thread	G1/4"螺纹 G1/4"Thread
工作压力 Operating Pressure	3-5bar	3-5bar	3-5bar	3-5bar
最高压力 Max Pressure	2.5Mpa	2.5Mpa	2.5Mpa	2.5Mpa

12KW智能温控款水冷排 12kw intelligent water cooling radiator

产品名称 Item	12KW智能温控款水冷排 12kw intelligent water cooling radiator
注水容量 Coolant Capacity	≈8L
电源接口种类 Power Interface	C14母座*1;需搭配C13 电源线/220V C14 female*1；should match with C13 power cord/220V input
水冷排功耗 Radiator Power Consumption	0.5KW
净重 Net Weight	21KG
含包装重量 Gross Weight (Packaged)	24KG
管径 Tube Diameter	进出水口口径12MM(标配内径为12MM 的硅胶管) water inlet/outlet caliber: 12mm (matcheswith inner diameter 12mm silicone pipe)
产品尺寸(手工测量有误差，以实物为准) Product Dimensions (W×D×H)	长75CM(含水泵)*厚22CM(含宝塔)*高58CM(含提手和底座) Length 75CM (including water pump) * Thickness 22CM (including pagoda) * Height 58CM (including handle and base)
环境温度/℃ Test environment temperature/℃	33℃
服务器工作功耗 Server Operating Power	11KW
冷排工作噪音 Noise Level	20 - 75DB
冷排散热温度 Radiator cooling Temp	46.6℃
调速范围 Adjustable Fan Speed range	0-6000转 (RPM)
水流速度 Flow Rate	12-15L/MIN

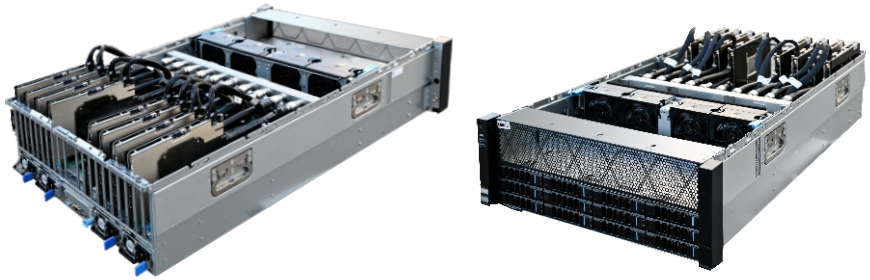
机架式液冷CDU Rack-mounted Liquid Cooling CDU

产品名称 Item	4U65KW机架式CDU Rack-mounted CDU	6U130KW机架式CDU Rack-mounted CDU
应用场景 Application	通用数据中心(CPU/GPU服务器)边缘计算节点工业光器、储能系统 General Data Centers (CPU/GPU Servers)Edge Computing NodesIndustrial Lasers, Energy Storage Systems	
换热量 Heat Exchange Capacity	65KW	130KW
一次侧温度 Primary Loop Temp	30/40°C	30/40°C
一次侧流量 Primary Loop Flow Rate	6m³/h	12m³/h
二次侧温度 Secondary Loop Temp	40/50°C	40/50°C
二次侧温度 Secondary Loop Flow Rate	6m³/h	12m³/h
介质Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol	
外形尺寸 Dimensions (W×D×H)	482mm×900mm×178mm	482mm×900mm×267mm
⊠ Weight	68KG	88KG
过滤精度 Filtration Accuracy	50μm - 100μm	50μm - 100μm

机架式风液混冷CDU Rack-mounted Air-Liquid Hybrid cooling CDU

产品名称 Item	4U8KW机架式风液混冷CDU	6U12KW机架式风液混冷CDU	4U18KW机架式风液混冷CDU
应用场景 Application	通用数据中心(CPU/GPU服务器)边缘计算节点工业光器、储能系统 General Data Centers (CPU/GPU Servers)Edge Computing NodesIndustrial Lasers, Energy Storage Systems		
换热量 Heat Exchange Capacity	8KW	12KW	18KW
出水温度 Primary Loop Temp	40°C/50°C	40°C/50°C	40°C/50°C
一次侧流量 Primary Loop Flow Rate	1.2m³/h	1.5m³/h	2.1m³/h
介质Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol		
产品尺寸 Dimensions (W×D×H)	482mm×900mm×178mm	482mm×900mm×267mm	482mm×900mm×365mm
过滤精度 Filtration Accuracy	50μm - 100μm	50μm - 100μm	50μm - 100μm

八卡液冷服务器 Eight-card liquid-cooled server



产品名称 Item	八卡液冷服务器 Eight-card liquid-cooled server
Intel 6U8卡机架式服务器(直通)	Intel 6U 8gpu rack-mounted server
支持 2 颗Intel 第 4/5 代处理器	Supports two Intel 4th/5th generation processors
支持32 条 DDR5 4800 RECC 内存	Supports 32pcs DDR5 4800 RECC memory
前置12*3.5 SATA/SAS/NVME，实际标配：支持 8 块 SATA SSD，支持4块NVMEU.2 SSD Front-panel 12 x 3.5" SATA/SAS//NVME, standard configuration: supports 8pcs SATA SSDs and 4pcs NVME U.2 SSD	
内置 2 块 M.2 SSD卡槽 (NVME 或 SATA) ,尺寸2280/22110	Built-in 2pcs M.2 SSD (NVME or SATA), with dimensions of 2280/22110
标配 8 个 PCIE 5.0 X16 卡槽 + 2 个PCIE 5.0 x8卡槽 + 1 个 OCP3.0 (x8) Standard configuration includes 8* PCIe 5.0 x16 slots + 2* PCIe 5.0 x8 slots + 1* OCP3.0 (x8) slot	
8 个双宽 GPU，可以支持 8 张液冷4090、5090 8pcs double-width GPU, supporting up to 8pcs liquid-cooled 4090 and 5090 GPU	

机柜式CDU Cabinet-based Liquid Cooling CDU

产品名称 Item	500KW机柜式CDU	800KW机柜式CDU	1000KW机柜式CDU	1500KW机柜式CDU	2000KW机柜式CDU
应用场景 Application	通用数据中心(CPU/GPU服务器)节点工业激光器、储能系统 General Data Centers (CPU/GPU Servers) Industrial Lasers, Energy Storage Systems				
换热量 Heat Exchange Capacity	500KW	800KW	1000KW	1500KW	2000KW
一次侧温度 Primary Loop Temp	30/40°C	30/40°C	30/40°C	30/40°C	30/40°C
一次侧流量(去离子水计) Primary Loop Flow Rate (based on deionized water)	45m³/h	75m³/h	90m³/h	135m³/h	180m³/h
二次侧温度 Secondary Loop Temp	40/50°C	40/50°C	40/50°C	40/50°C	40/50°C
二次侧流量 Secondary Loop Coolant	45m³/h	75m³/h	90m³/h	135m³/h	180m³/h
介质 Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol				
外形尺寸 Dimensions (W×D×H)	600×1200×2000mm	800×1200×2000mm	800×1200×2000mm	1000×1200×2000mm	1200×1200×2000mm
过滤精度 Filtration Accuracy	一次测200μm/二次侧100μm Primary Loop 200μm/Secondary Loop 100μm				

开放式CDU Open-type CDU

产品名称 Item	200KW CDU	400KW CDU	800KW CDU	2000KW CDU	3000KW CDU
应用场景 Application	超算服务器 Supercomputing Server				
换热量 Heat Exchange Capacity	200KW	400KW	800KW	2000KW	3000KW
温度 Temp	35/45°C				
流量 Flow Rate	14m³/h	28m³/h	60m³/h	135m³/h	205m³/h
外形尺寸 Dimensions (W×D×H)	650x680x1700mm	912x700x1975mm	1000x1530x1987mm	1050x1600x2000mm	1586x2086x1880mm
出水接口规格 Water outlet Interface	Φ51mm*64mm卡盘chuck	DN65PN16国标法兰flange	DN80PN16国标法兰flange	DN125PN16国标法兰flange	DN150PN16国标法兰flange
过滤精度 Filtration Accuracy	100μm				

OCP ORV3.0液冷机柜(busbar) OCP ORV3.0 liquid-cooled cabinet (busbar)

产品名称 Item	OCP ORV3.0 液冷机柜(busbar) OCP ORV3.0 liquid-cooled cabinet (busbar)
应用场景 Application	超算中心&AI训练集群,高密度 GPU服务器集群5G 基站 BBU 配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机柜容量 Cabinet Capacity	48U
busbar 供电 power supply	48V
总功率 Total power	72KW
接头 Manifolds	UQD04公头 20个 UQD04 male connectors*20pcs
分水器 manifold	2pcs
供回液流量 water Supply and return flow rate	12m³/h
外形尺寸 Dimensions (W×D×H)	600*1200*2250mm
过滤精度 Filtration Accuracy	50μm-100μm

服务器风液混冷机柜48U Server Air-Liquid Hybrid Cooling 48U

产品名称Item	风液混冷机柜 35KWCabinet	风液混冷机柜 55KWCabinet
应用场景 Application	通用数据中心(CPU/GPU服务器)边缘计算节点工业激光器、储能系统 General DCs (CPU/GPU Servers),Edge Computing Nodes，Industrial Lasers, Energy Storage Systems	
散热量 Cooling Capacity	35KW	55KW
供回水温度 Supply and return water temperature	40°C-50°C	40°C-50°C
供回液流量 Supply and return water flow rate	3.3m³/h	4.5m³/h
介质 Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol	
外形尺寸 Dimensions (W×D×H)	600*1350*2200mm	600*1350*2200mm
进风量 air intake rate	13000m³/h	17000m³/h
PDU	380V 16A 20位	
接头 Manifolds	UQD04公头 20个 UQD04 male connectors*20pcs	
分水器 manifold	2pcs	

服务器浸没式TANK-12U Server Immersion Cooling TANK-12U

产品名称Item	服务器浸没式TANK-12U Server Immersion Cooling TANK-12U
容量 Capacity	12U
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
电源插座/PDU Power Socket / PDU	输入 220V/50HZ/50KW Power input 220V/50HZ/50KW
管径 Pipe Diameter	DN40卡盘64MM
板式换热器 Plate Heat Exchanger	40KW
外形尺寸 Dimensions (W×D×H)	850x850x1100mm
环境温度 Test Ambient Temp	23°C
工作油温 Operating Oil Temp	进油温度 34°C;出油温度 41°C Inlet: 34°C; Outlet: 41°C
换热量 Cooling Capacity	40KW
注油量 oil filling volume	300L

超算液冷机柜2UB20 Super computing Liquid Cooling Cabinet 2UB20

产品名称 Item	超算液冷机柜2UB20 Super computing Liquid Cooling Cabinet 2UB20
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
支持功率 Support Max Power	200KW
进出水接口规格 water inlet/outlet Interface	Φ51mm*64mm 卡盘chuck
外形尺寸 Dimensions (W×D×H)	1000*800*2000mm
PDU	一控二20位插口 One control for two 20-pin sockets
⊠ Network	100M
接头 Manifolds	UQD04公头20个 UQD04 male connectors*20pcs
分水器 manifold	2pcs

超算液冷一体式机柜2UB12CDU Supercomputing Liquid Cooling 2UB12CDU

产品名称 Item	超算液冷一体式机柜2UB12CDU Supercomputing Liquid Cooling 2UB12CDU
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机柜容量 Capacity	24U
支持功率 Support Max Power	120KW
温度 Temp	40°C/50°C
流量 Flow Rate	8m³/h
出水接口规格 Water outlet Interface	Φ51mm*64mm 卡盘chuck
外形尺寸 Dimensions (W×D×H)	1000*800*2000mm
介质 Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol
过滤精度 Filtration Accuracy	100μm
PDL控制 PLC control	全功能智能控制系统 Full-function intelligent control system
PDU	一控二16位插口 One control and two 16-bit sockets

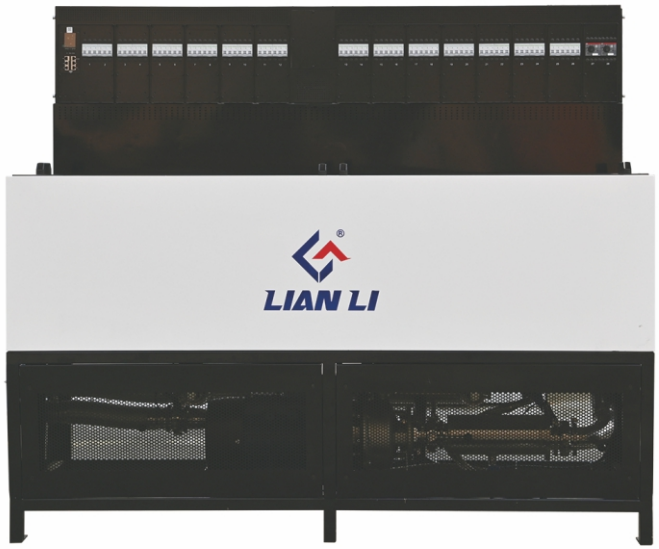
超算液冷机柜B28 Supercomputing Liquid Cooling Cabinet B28

产品名称 Item	超算液冷机柜B28 Supercomputing Liquid Cooling Cabinet B28
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机柜容量 Capacity	28位 units server
支持功率 Support Max Power	168KW
温度 Temp	35°C/45°C
进水口接口 water inlet/outlet Interface	Φ51mm*64mm 卡盘chuck
外形尺寸 Dimensions (W×D×H)	780*1110*2125mm

超算液冷机柜B16CDU Supercomputing Liquid Cooling Cabinet B16CDU

产品名称 Item	超算液冷机柜B16CDU Supercomputing Liquid Cooling B16CDU
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机柜容量 Capacity	16位servers
支持功率 Support Max Power	96KW
温度 Temp	35°C/45°C
流量 Flow Rate	8m³/h
出水接口规格 Water outlet Interface	Φ51mm*64mm 卡盘chuck
外形尺寸 Dimensions (W×D×H)	860*1110*2040mm
介质 Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol
过滤精度 Filtration Accuracy	100μm

浸没式TANK200KW Immersion Cooling Tank 200KW



产品名称 Item	浸没式TANK200KW Immersion Cooling Tank 200KW
典型应用场景 Application	超算服务器 Supercomputing Servers
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
油箱容量 Oil Tank Capacity	600L
电源输入 Power Input / PDU	输入380v/50HZ
净重 Net Weight	700KG
进出水管径 water inlet/outlet interface	Φ76mm*91mm 卡盘chuck
板式换热器 Plate Heat Exchanger （Cooling capacity）	200KW
网络 Network	24口交换机*2台 24-port switch *2units
外形尺寸 Dimensions (W×D×H)	2517*805*1081mm
测试环境温度 Ambient Test Temp	35°C
工作油温 Operating Oil Temp	进油温度 34°C;出油温度 45°C Inlet: 34°C; Outlet: 45°C
PLC功能 PLC function	油温显示;流量显示;高温报警;停机报警;远程监控 Oil temperature display, flow display, high temperature alarm, shutdown alarm, remote monitoring
介质 Medium	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol

浸没式TANK110KW Immersion Cooling Tank 110KW

产品名称 Item	浸没式TANK110KW Immersion Cooling Tank 110KW
油箱容量 Oil Tank Capacity	250L*3层 250L × 3 layers
典型应用场景 Application	超算服务器 Supercomputing Servers
电源输入 Power Input / PDU	每层6位供电 6-bit power supply per layer
净重 Net Weight	≈ 800KG
进出水管径 water inlet/outlet interface	Φ63mm*77.5mm 卡盘chuck
板式换热器 Plate Heat Exchanger （Cooling capacity）	40KW*3
网络 Network	10 口交换机*3(RJ45) 10-Port Switch x3(RJ45)
外形尺寸 Dimensions (W×D×H)	1200*860*2100mm
测试环境温度 Test Ambient Temp	35°C
工作油温 Operating Oil Temp	进油温度 35°C;出油温度 45°C Inlet: 35°C; Outlet: 45°C
PLC功能 PLC function	油温显示;流量显示;高温报警;停机报警;远程监控 Oil temperature display, flow display, high temperature alarm, shutdown alarm, remote monitoring

20尺算力方舱1.2MW
20HC 1.2MW computing power Container

产品名称 Item	20尺算力方舱1.2MW 20HC 1.2MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群 配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	120台units
箱体规格mm Container Dimensions (LxWxH)	6058 x2438x2896 mm
支持功率 Supported max power	1.2MV
散热方式 water inlet/outlet interface	干冷器 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语 Chinese, English

40尺算力方舱2.4MW
40HC 2.4MW computing power Container

产品名称 Item	40尺算力方舱2.4MW 40HC 2.4MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群5G基站 BBU 配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	240台units
箱体规格mm Container Dimensions (LxWxH)	12196 x2438x2896 mm
支持功率 Supported max power	2.4MV
散热方式 water inlet/outlet interface	干冷器 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语 Chinese, English

20尺算力方舱2.0MW 20HC 2.0MW computing power Container

产品名称 Item	20尺算力方舱2.0MW 20HC 2.0MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	336台units
箱体规格mm Container Dimensions (LxWxH)	6058 x2438x2896 mm
支持功率 Supported max power	2MV
散热方式 water inlet/outlet interface	干冷塔 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语Chinese, English
进出水管径 Inlet and outlet pipe diameter	DN100PN16国标法兰DN100 PN16 national standard flange

40尺算力方舱3.0MW 40HC 3.0MW computing power Container

产品名称 Item	40尺算力方舱3.0MW 40HC 3.0MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluste with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	80-160台units
箱体规格mm Container Dimensions (LxWxH)	12196 x2438x2896 mm
支持功率 Supported max power	3MV
散热方式 water inlet/outlet interface	干冷塔 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语Chinese, English

20尺算力方舱1.4MW 20HC 1.4MW computing power Container

产品名称 Item	20尺蚂蚁算力方舱1.4MW 20HC 1.4MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	240台units(MY)
箱体规格mm Container Dimensions (LxWxH)	6058 x2438x2896 mm
支持功率 Supported max power	1.4MV
散热方式 water inlet/outlet interface	干冷塔 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语 Chinese, English

40尺算力方舱2.4MW 40HC 2.4MW computing power Container

产品名称 Item	40尺算力方舱2.4MW 40HC 2.4MW computing power Container
典型应用场景 Application	超算中心&AI训练集群，高密度 GPU 服务器集群配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	200台units(SM)
箱体规格mm Container Dimensions (LxWxH)	12196 x2438x2896mm
支持功率 Supported max power	2.4MV
散热方式 water inlet/outlet interface	干冷塔 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语 Chinese, English

20-40尺算力方舱0.8-2.0MW浸没式 20-40HC 0.8-2.0MW immersion cooling Container

产品名称 Item	20-40尺算力方舱0.8-2.0MW浸没式 20-40HC 0.8-2.0MW immersion cooling Container
典型应用场景 Application	超算中心&AI训练集群，高密度GPU服务器集群配套液冷 Supercomputing Center & AI Training Cluster, High-Density GPU Server Cluster with Liquid Cooling
核心优势 Core Advantages	超大散热量、模块化扩展、高密度部署 Ultra-High Heat Dissipation, Modular Scalability, High-Density Deployment
机位容量 Capacity	100-260台units
箱体规格mm Container Dimensions (LxWxH)	6058 x2438x2896 /12196 x2438x2896 mm
支持功率 Supported max power	2MV
散热方式 water inlet/outlet interface	干冷塔 Dry cooling tower
分水管材质 Water distributor material	304不锈钢材质304 stainless steel
PLC控制系统 PLC control system	采用西门子PLC智能控制系统、具备远程监控功能 Adopts Siemens PLC intelligent control system with remote monitoring function
显示屏尺寸 Display	10英寸西门子触摸显示10-inch Siemens touch display
控制系统语言 Control system language	中文、英语Chinese, English

干冷器 dry cooling tower

型号 model	120	400	800	1400
换热量 Cooling capacity	120KW	400KW	800KW	1400KW
载冷剂 Coolant	冷却液/去离子水/乙二醇水溶液/丙二醇水溶液 Deionized water / Ethylene glycol / Propylene glycol			
换热器组合方式 Dry cooler Type	V型V-type			
换热器款式 Heat exchanger style	不锈钢材质 stainless steel			
主电源 Power	380V/50HZ			
功率 Power consumption	3.6KW	14.4KW	32.4KW	80KW
风机形式 Fan type	+AC			
风机传动方式 Fan drive mode	直驱Direct drive			
总风量 Total air volume	50000m³/h	190000m³/h	380000m³/h	460000m³/h
风机台数 Number of fans	2	8	18	20
风机调速范围 Adjustable Fan speed range	10%-100%			
风机控制 Fan control	无极调频Infinite frequency modulation			
启动时间 Startup time	⩽10S			
设计压力 Design pressure	1.0MPa			
进出风温度 Inlet and outlet air temperature	38°C/43°C			
进出液温度 Inlet and outlet liquid temperature	40°C/50°C			
可调控出液(温度范围)Adjustable liquid output (temperature range)	30°C-60°C			
通讯接口 Communication interface	RS485			
运行噪声 Operating noise	60dB (A)	65dB (A)	68dB (A)	70dB (A)
外形尺寸 Dimensions (W×D×H)	2800x1550x1670mm	5410x2250x2250mm	10340x2250x2230mm	11950x2250x2400mm

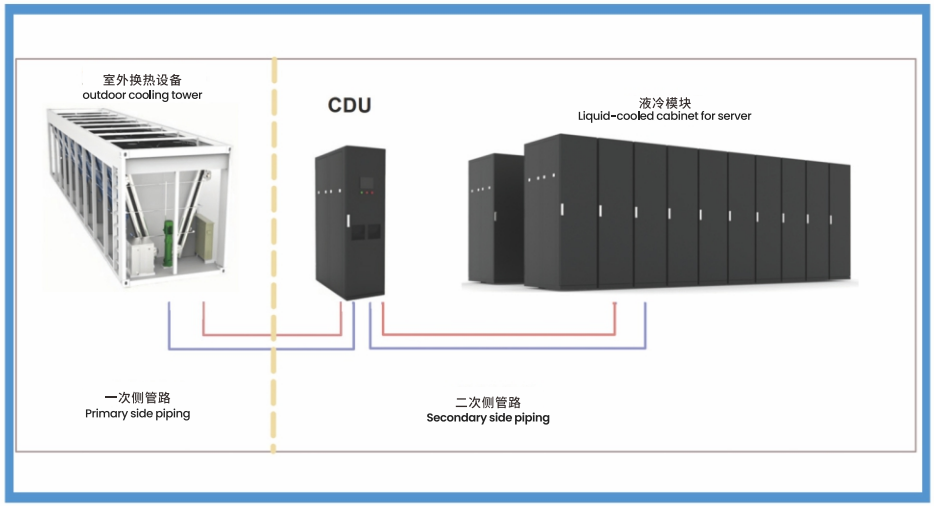
闭式塔 Closed water tower

	闭式塔 Closed water tower
合并后参数 Merged parameters	合并后参数 Merged parameters
基本参数 冷却能力 Cooling capacity	3000KW
基本参数 湿球温度 Wet-bulb temperature	28°C
温差 temperature difference	10°C
基本参数 飘水率 Water drift rate	⩽ 0.01%
基本参数 电源 Power	3Φ/380V/50HZ
基本参数 箱体尺寸 size (LxWxH)	7300X 3200X 4166mm
基本参数 主机设备净重 Net weight	6100KG
喷淋泵参数 功率 Spray pump power consumption	5.5*2KW
风机参数 型式 Fan type	全封闭铝合金风机 Fully enclosed aluminum alloy fan
风机参数 功率 Fan power	5.5KW*6

板换式 1000kw plate heat exchanger

热侧介质 Hot side medium	50%乙二醇水溶液 ethylene glycol aqueous solution	热侧温度 Hot side temperature	40-30°C	热侧流量 Hot side flow rate	210M3
冷侧介质 Cold side medium	水 water	冷侧温度 Cold side temperature	4-18°C	冷侧流量 Cold side flow rate	122M3
换热面积 Heat exchange area	M^2	40	设计压力 Design pressure	Mpa	1.0
板片材质 Plate material	—	304	设计温度 Design temperature	°C	140
板片厚度 Plate thickness	mm	0. 5	框架材质 Frame material	—	碳钢喷涂 carbon steel painting
胶条材质 Rubber mat material	—	EPDM	材质 Rod material	—	镀锌 galvanized
冷侧接口 Cold side interface	胶套法兰 Steel sleeve flange	DN150PN10	热侧接口 Hot side interface	胶套法兰 Steel sleeve flange	DN150PN10
板片数量 plate quantity	—	91	设计温差 Design temperature difference	°C	24
板换重量 Net Weight	KG	≈700			

机柜式方案 Cabinet-based Cooling Solution



数据中心液冷机柜散热方案通过在服务器CPU、GPU等发热部件安装金属冷板，利用高导热冷却液(如水基混合液)循环带走热量:冷却液流经冷板吸收芯片热量后，通过外置换热器降温回流，形成闭式散热循环。该方案凭借液体高效导热特性，散热效率比传统风冷提升40%-50%，支持单机柜功率密度从10kW以下提升至30-50kW，彻底解决高密度算力设备的散热瓶颈。系统无需大量风扇，能耗降低50%以上，数据中心PUE可降至1.1以下，兼具节能与静音优势(噪音<55dB)，适用于AI训练、云计算等高密度场景，在保障设备稳定运行的同时，实现绿色高效散热。

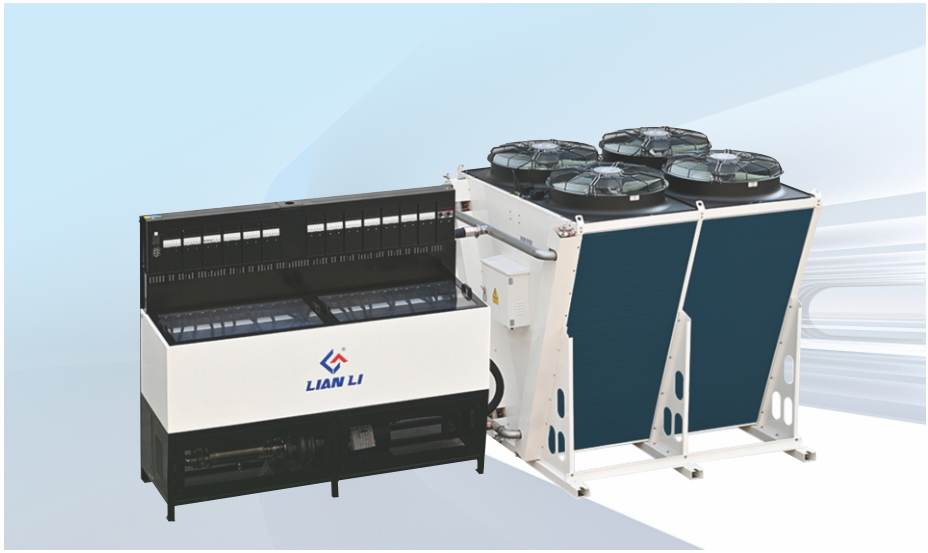
Data Centers liquid-cooled cabinet heat dissipation solution involves installing metal cold plates on heat-generating components such as server CPUs and GPUs, and circulating a highly thermally conductive coolant (such as a water-based fluid) to remove heat. After the coolant flows through the cold plate and absorbs heat from the chips, it is cooled and returned through an external cooling tower, forming a closed heat dissipation cycle. Leveraging the liquid's efficient thermal conductivity, this solution improves heat dissipation efficiency by 40%-50% compared to traditional air cooling. It supports increasing the power density of a single cabinet from below 10kW to 30-50kW, completely resolving the heat dissipation bottleneck of high-density computing power equipment. The system eliminates the need for excessive fans, reducing energy consumption by over 50%, and reducing the data center's PUE to below 1.1. It also combines energy-saving and quiet operation (noise <55dB), making it suitable for high-density scenarios such as AI training and cloud computing. This solution ensures stable equipment operation while achieving efficient and environmentally friendly heat dissipation.

方舱式方案 Containerized Cooling Solution

液冷方舱散热方案通过在方舱内关键发热设备(如服务器、电源模块)表面集成高导热冷板，采用去离子水与乙二醇混合液作为冷却液，构建封闭式循环散热系统:冷却液在泵组驱动下流经冷板吸收热量，升温后通过方舱外置的紧凑式换热器(如翅片式或板式换热器)与外界空气或低温介质进行热交换降温后回流形成闭环。该方案利用液体10倍于空气的热传导能力，将散热效率提升50%-70%，可在40°C高温环境下确保设备结温控制在85°C以内，同时取消传统风扇，能耗降低60%以上，噪音低于50分贝。方案采用全密封管路设计具备IP65级防尘防水能力，适应户外高粉尘、高湿度及温差剧烈场景，支持块化快速部署，广泛应用于车载移动数据中心、野战通信方舱、边缘计算集装箱等紧凑化、高可靠性散热场景，在有限空间内实现高效散热与环境适应性的双重优化。

The containerized liquid-cooled heat dissipation solution integrates high-thermal conductivity cold plates on the key heat-generating equipment (such as servers and power modules)in the container. Using a mixture of deionized water and ethylene glycol as the coolant, this creates a closed-loop cooling system. Driven by a pumping station, the coolant flows through the cold plates, absorbing heat. After heating, it exchanges heat with the outside air or a low-temperature medium through a compact external heat exchanger(such as a fin-type or plate heat exchanger), and then the cooled fluid flows back into container to form a closed-loop cooling system. This solution utilizes the thermal conductivity of liquid, which is 10 times that of air, to improve heat dissipation efficiency by 50%-70%. Even in a high-temperature environment of 40°C, it can keep the junction temperature of equipment below 85°C. It also eliminates traditional fans, reduces energy consumption by over 60%, and keeps noise levels below 50 decibels. The solution adopts a fully sealed pipeline design with IP65 dust and water resistance, adapts to outdoor high dust, high humidity and drastic temperature differences, supports modular rapid deployment, and is widely used in compact, high-reliability heat dissipation scenarios such as on-board mobile data centers, field communication shelters, and edge computing containers, achieving dual optimization of efficient heat dissipation and environmental adaptability in a limited space.

浸没式方案 Immersion Cooling Solution



浸没式散热的好处

浸没式散热是将发热部件浸入高绝缘、高导热冷却液中，通过液体与发热元件直接接触带走热量，相比传统散热方式优势显著。

散热效率上，冷却液的热导率和比热容远超空气，能更高效吸收、传导热量:在数据中心场景中，可使服务器散热效率提升30%-50%，轻松应对高发热部件散热需求。

节能方面，传统风冷依赖大量风扇耗能，而浸没式散热依靠循环泵，无需复杂通风管道，减少摩擦与热交换损耗，整体能耗可降低30%-40%。维护与环境适应性上，绝缘冷却液隔绝灰尘湿气，延长设备寿命;密闭循环减少维护工作，维护成本降低。此外，无风扇运转，运行噪音低至40-50分贝，适合对噪音敏感场所。

Benefits of Immersion Cooling

Immersion cooling submerges heat-generating components into high-insulation and highly thermally conductive coolant by direct contact between the liquid and the heat-generating components to removes heat, offering significant advantages over traditional cooling methods.

In terms of cooling efficiency, the coolant's thermal conductivity and specific heat capacity far exceed those of air,allowing more efficient heat absorption and dissipation.In data centers applications, this can improve server cooling efficiency by 30%-50%, easily meeting the cooling needs of high-heat-generating components.

In terms of energy efficiency, traditional air cooling relies on a large number of fans, while immersion cooling relies on a circulation pump, eliminating the need for complex ventilation ducts, reducing friction and heat exchange losses, and ultimately reducing overall energy consumption by 30%-40%. In terms of maintenance and environmental compatibility, the insulating coolant isolates dust and moisture, extending equipment life; the closed circulation reduces maintenance effort and costs.Furthermore, the fanless operation results in a low operating noise level of 40-50 decibels, making it suitable for noise-sensitive environments.