

数据中心手册

DATA CENTER MANUAL



芯科液冷, 让您的设备时刻保持冷静!

Xinke Liquid Cooling - Engineered for Cool, Built for Performance.

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XINKE LCS

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Company Profile

公司简介

芯科智能 智造未来

唐山市芯科智能科技有限公司，雄踞于华北工业重镇——河北省唐山市古冶区经济开发区，是一家在全球液冷技术领域崭露头角的科技创新型企业。公司集区块链、高性能计算（HPC）及人工智能（AI）数据中心的先进液冷基础设施的研发、制造与销售于一体，以科技创新为引擎，驱动绿色数字未来的建设。

Tangshan Xinke Intelligent Technology Co., Ltd., located in the Guye Economic Development Zone of Tangshan City, Hebei Province, a major industrial city in North China, is a leading technology innovation enterprise in the global liquid cooling technology field. The company integrates the research, development, manufacturing, and sales of advanced liquid cooling infrastructure for blockchain, high-performance computing (HPC), and artificial intelligence (AI) data centers, driving the construction of a green digital future through technological innovation.

使命愿景与核心竞争力 After-sales Service

使命:让液冷技术稳定高效的服务每一位用户; 愿景: 成为客户最忠诚的合作伙伴。

核心竞争力: 技术领先（深耕液冷前沿）、制造卓越（规模化精密制造）、价值创新（一体化解决方案）。

Mission: To provide stable and efficient liquid cooling technology services to every user; Vision: To become the most loyal partner of our customers.

Core Competencies: Technological Leadership (deeply rooted in the forefront of liquid cooling), Manufacturing Excellence (large-scale precision manufacturing), Value Innovation (integrated solutions).



2016

Establishment time
成立时间



XINKE SMART

Intelligent systems
智能系统

领先的技术与产品矩阵 Leading technology and product portfolio

研发团队攻克冷板式、浸没式液冷核心技术；明星产品为自主研发的液冷算力集装箱（即插即用、高效节能）；提供KW级至GW级全场景液冷解决方案，覆盖区块链、AI训练等多元场景。

The R&D team has overcome the core technologies of cold plate and immersion liquid cooling; the star product is the independently developed liquid-cooled computing container (plug-and-play, highly efficient and energy-saving); it provides liquid cooling solutions for all scenarios from KW to GW, covering diverse scenarios such as blockchain and AI training.

“液冷+”生态体系 "Liquid Cooling+" Ecosystem

构建“液冷+余热回收+智能运维”生态方案：余热回收可回收90%服务器余热，转化为热水用于供暖等，实现节能创收；自主研发XINKE SMART智能管理系统，实现数据中心全域感知、远程管控及无人值守。

We have developed an ecosystem solution that combines liquid cooling, waste heat recovery, and intelligent operation and maintenance. Waste heat recovery can recover 90% of the waste heat from servers and convert it into hot water for heating, thus achieving energy conservation and revenue generation. We have also independently developed the XINKE SMART intelligent management system, which enables data center to achieve full-domain perception, remote control, and unattended operation.

制造与全球布局 Manufacturing and Global Layout

拥有30000m²现代化生产基地，年产能稳定在500MW以上；产品出口30多个国家和地区，部署案例超100个，稳居超算液冷行业第一梯队。

With a 30,000m² modern production base, the annual production capacity is stable at over 500MW; the products are exported to more than 30 countries and regions, with over 100 deployment cases, firmly ranking among the top tier in the supercomputing liquid cooling industry.

COMPANY

Corporate Culture

企业文化

团队建设与人材战略 Team building and talent strategy

采用“自主培养+高端引进”双轮驱动，内部开展专业培训，外部引进中高级人才，与高校共建实践基地储备人才。

We adopt a dual-engine approach of "independent training + high-end introduction," conducting professional training internally, introducing mid-to-senior level talents externally, and jointly building practice bases with universities to reserve talents.

市场开拓与营销体系 Market development and marketing system

2025年引入国际化运营团队；国内聚焦重点区域及多领域客户，国际巩固现有市场、拓展新兴市场；构建多渠道传播矩阵，参与行业展会提升品牌影响力。

In 2025, we will introduce an international operations team; domestically, we will focus on key regions and clients in multiple fields, while internationally, we will consolidate existing markets and expand into emerging markets; we will build a multi-channel communication matrix and participate in industry exhibitions to enhance brand influence.

客户服务与未来展望 Customer Service and Future Outlook

提供7×24小时响应、365天免费上门售后，覆盖项目全生命周期；秉承核心价值观，推动绿色数据中心建设，助力构建智能绿色数字世界。

We provide 24/7 response and 365-day free on-site after-sales service, covering the entire project lifecycle; adhering to our core values, we promote the construction of green data centers and help build a smart and green digital world.

01

企业宗旨：让算力更高效 让能源更绿色

Corporate Tenet: Make computing more efficient and energy greener

02

企业愿景：成为客户最忠诚的合作伙伴

Company Vision: To become our customers' most loyal partner

03

企业精神：奋斗 创新 无畏 诚信

Corporate Spirit: Struggle Innovation Fearlessness Integrity

04

企业使命：让液冷技术稳定高效的服务每一位用户

Company Mission: To provide stable and efficient liquid cooling technology services to every user.

05

核心价值观：质量为先 信誉为重 管理为本 服务为诚

Core Values: Quality First, Reputation Paramount, Management Fundamental, Service Sincere

06

全链条工厂：为中小企业带来最具性价比产品，拒绝行业暴利

Full-chain factory: Bringing the most cost-effective products to SMEs and rejecting industry profiteering.

Development History

发展历程

成立芯科电子,切入区块链服务器销售及维修市场,建立首个华北地区区块链设备售后站点。

Xinke Tech Electronic Co., Ltd. was founded,entered the blockchain server sales and maintenance market, and established the first blockchain equipment after-sales site in North China.



2016

成立芯科智能科技,启动风冷+液冷散热系统研发,攻克高密度算力设备散热难题,首代产品能耗降低25%。

Xinke Intelligent Technology Co., Ltd., was founded, initiated the research and development of air-cooling + liquid-cooling heat dissipation system, overcame the heat dissipation problem of high-density computing equipment, and reduced the energy consumption of the first generation of products by 25%.



2019

建成智能化液冷全自主生产线,耗时三年,全力研发冷板式液冷散热方案,经过多地部署测试老化实验,推出室内外多种类液冷解决方案。

The fully independent production line of intelligent liquid cooling was completed,it took three years, to fully develop the cold plate liquid cooling solution,and after deploying aging test experiments in many places, a variety of indoor and outdoor liquid cooling solutions were launched.



2022

区块链产品最大装机量突破2.8兆瓦,国内移动式数据中心项目成功落地,产品种类50+,是行业产品应用范围最广,自动化系统成熟度最高企业。参与国外区块链场地建设200兆瓦+。

The maximum installed capacity of blockchain products exceeded 2.8 MW, and the domestic mobile data center project was successfully launched, with 50+ product categories, we are the enterprise with the widest range of product applications, and the highest maturity of automation system in the industry.We participated in the construction of foreign blockchain sites up to 200MW.



2025

2018



签约多家区块链服务器厂商官方售后,售后团队规模突破100人,覆盖全国60%主流场地,服务响应时效<4小时。

We have signed official after-sales service agreements with multiple blockchain server manufacturers, and our after-sales team has exceeded 100 people, covering 60% of mainstream venues nationwide, with a service response time of less than 4 hours.

2023

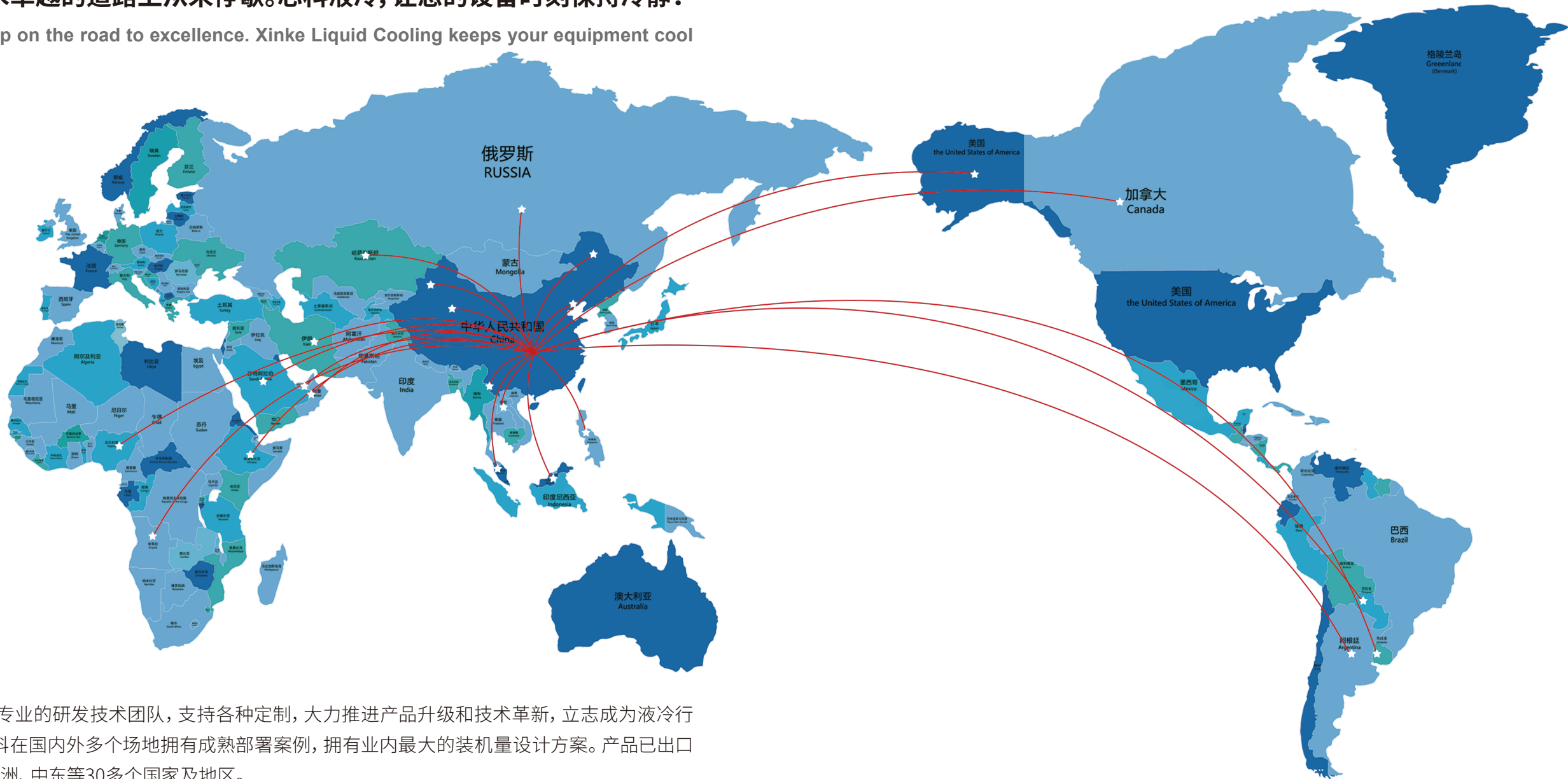


组建液冷数据中心事业部,重点研发液冷数据中心产品,覆盖从单台到万台级数据中心,推出移动式液冷数据中心模块,可实现7*24小时场地快速部署。

Set up the data center liquid cooling business division, focus on the research and development of data center liquid cooling products,covering data centers from single to 10,000 units, and launch mobile data center liquid cooling modules, which can be rapidly deployed at the site for 7*24 hours.

我们在追求卓越的道路上从未停歇。芯科液冷, 让您的设备时刻保持冷静!

We never stop on the road to excellence. Xinke Liquid Cooling keeps your equipment cool at all times.



芯科液冷依托专业的研发技术团队, 支持各种定制, 大力推进产品升级和技术革新, 立志成为液冷行业领跑者。芯科在国内外多个场地拥有成熟部署案例, 拥有业内最大的装机量设计方案。产品已出口北美、欧洲、非洲、中东等30多个国家及地区。

Relying on professional R&D and technical team, Xinke Liquid Cooling supports all kinds of customization, vigorously promotes product upgrades and technological innovations, and strive to become the leader in liquid cooling industry. Xinke has mature deployment cases in multiple sites at home and abroad, and has the largest installed capacity design solution in the industry, and our products have been exported to more than 30 countries and regions, including North America, Europe, Africa and the Middle East.

“立足当下, 展望未来”, 我们将继续秉承企业价值观, 坚守初心, 锐意进取, 致力于为客户提供超越期待的产品和服务, 与社会各界共创美好明天。

‘Live in the moment and look forward to the future’, we will continue to uphold the corporate values, stick to our original intention, forge ahead, and strive to provide customers with products and services that exceed expectations, so as to create a better tomorrow with all sectors of society.

10年来, 芯科一直秉承以用户需求为核心, 在专注开拓国内外市场的同时, 为超过一百家中小企业提供优质的产品和用心的服务, 赢得了众多企业的信赖和好评。公司不仅提供专业的定制方案和策划服务, 同时还建立了完善的售后服务体系, 为企业发展中遇到的问题和困难提供指导帮助。我们相信, 通过我们的不断努力和追求, 一定能够实现与国内外企业的互利共赢!

Over the past 10 years, Xinke has been adhering to the core of meeting user’s needs, providing quality products and attentive services for more than one hundred small and medium-sized enterprises while focusing on domestic and international market development, which has won the trust and praise of many enterprises. Our company not only provides customized planning services for professional programs, but also establishes a perfect after-sales service system to provide guidance and help for the problems and difficulties encountered in the development of enterprises. We believe that through our continuous efforts and pursuit, we will be able to achieve mutual benefit and win-win results with domestic and foreign enterprises.

Independent Intelligent Manufacturing and Full-chain Implementation

自主智造·全链落地

STEP 01 项目立项支持 (前置服务)

Project initiation support (pre-project services)



- 需求调研: IT负载规模、业务类型、扩容规划
- 选址评估: 气候条件、能源价格、政策环境
- 投资回报测算: 建设成本、运营成本、热能收益、投资回收期
- 政策合规分析: 能效指标、碳配额、地方补贴政策
- 项目申报支持: 协助编制可研报告、对接政府部门
- 碳资产开发: 减排量核算、碳交易路径规划
- Needs Assessment: IT load scale, business type, expansion plan
- Site Selection Assessment: Climate conditions, energy prices, policy environment
- Return on Investment (ROI) Calculation: Construction costs, operating costs, thermal revenue, payback period
- Policy Compliance Analysis: Energy efficiency indicators, carbon quotas, local subsidy policies
- Project Application Support: Assisting in feasibility study report preparation and liaising with government departments
- Carbon Asset Development: Emission reduction calculation and carbon trading pathway planning

STEP 03 核心设备供应

Core equipment supply



- 冷板式液冷服务器/机柜
- 浸没式液冷整机柜方案
- 冷量分配单元CDU
- 液冷管路系统
- Cold plate liquid-cooled servers/racks
- Immersion liquid-cooled rack solutions
- Cooling distribution unit (CDU)
- Liquid cooling piping system

STEP 02 规划设计能力

Planning and design capabilities



- PUE优化方案设计
- 液冷改造可行性评估
- 机柜功率密度规划
- 与现有基础设施的兼容性评估
- PUE optimization solution design
- Liquid cooling retrofit feasibility assessment
- Rack power density planning
- Compatibility assessment with existing infrastructure

STEP 04 工程实施能力

Engineering implementation capability



- 施工周期短 (标准化集装箱方案)
- 不停机改造技术
- 气密性检测与安全保障
- 项目管理经验
- Short construction period (standardized containerized solution)
- Non-stop retrofit technology
- Air tightness testing and safety assurance
- Project management experience

STEP 05 智能运维服务

Intelligent operation and maintenance services



- 7×24远程监控
- 冷却液漏液预警
- 能效分析与优化建议
- 定期巡检与维护
- 24/7 remote monitoring
- Coolant leak warning
- Energy efficiency analysis and optimization suggestions
- Regular inspection and maintenance

STEP 07 全生命周期服务

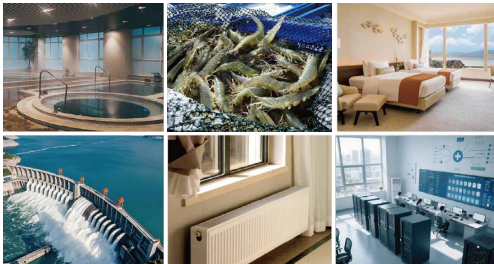
Full lifecycle service



- 两年质保承诺
- 技术升级迭代支持
- Two-year warranty commitment
- Technical upgrade and iteration support

STEP 06 热能回收增值 (差异化亮点)

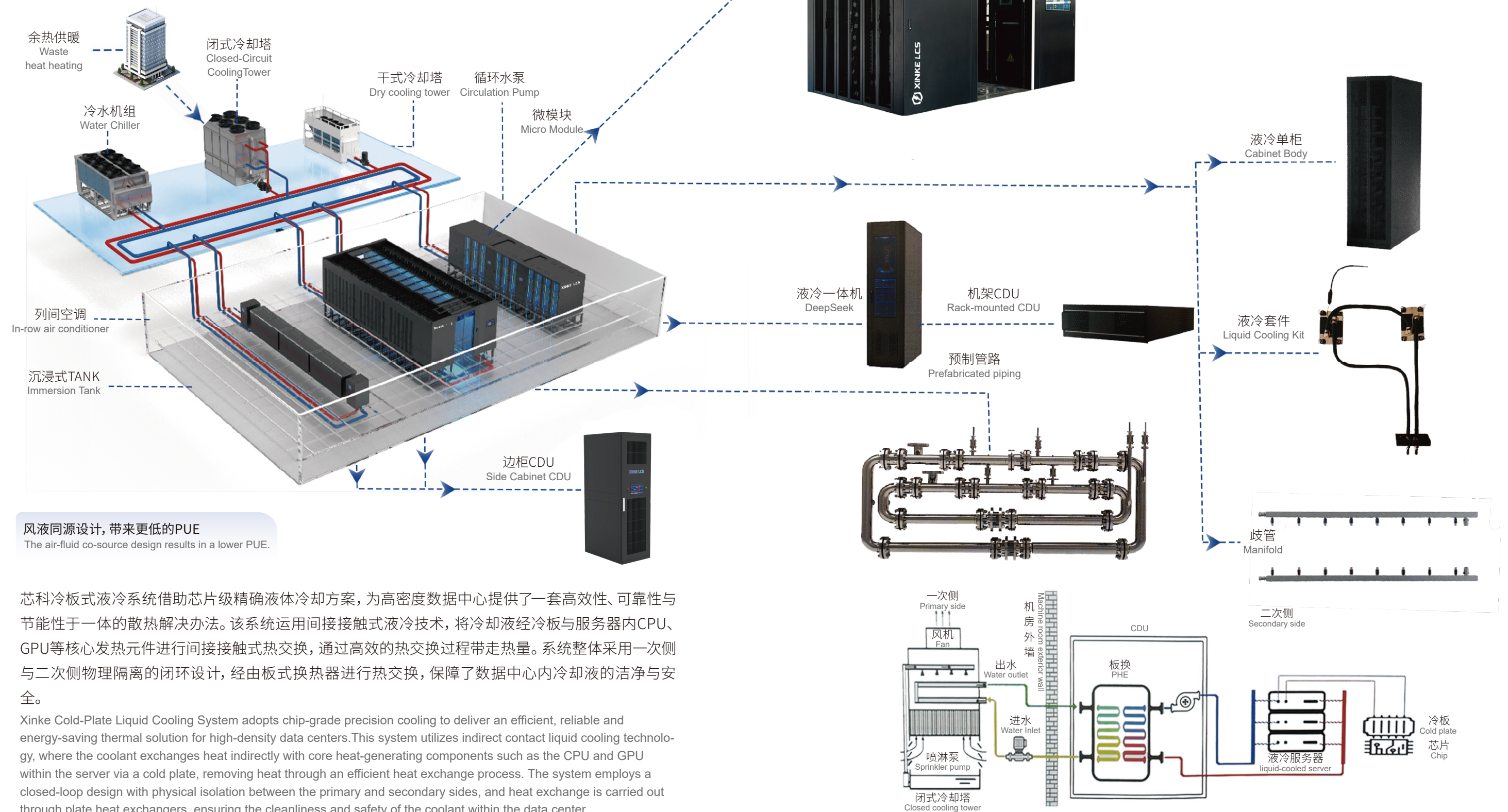
Heat energy recovery and value-added services (differentiating highlight)



- 余热回收方案设计
- 与供暖/农业/养殖场景对接
- 碳减排量核算
- 热能销售收益分成模式
- Waste heat recovery solution design
- Integration with heating/agriculture/livestock scenarios
- Carbon emission reduction calculation
- Revenue sharing model for heat energy sales

Principles of Data Center Systems

数据中心系统原理



风液同源设计, 带来更低的PUE
The air-fluid co-source design results in a lower PUE.

芯科冷板式液冷系统借助芯片级精确液体冷却方案, 为高密度数据中心提供了一套高效性、可靠性与节能性于一体的散热解决办法。该系统运用间接接触式液冷技术, 将冷却液经冷板与服务器内CPU、GPU等核心发热元件进行间接接触式热交换, 通过高效的热交换过程带走热量。系统整体采用一次侧与二次侧物理隔离的闭环设计, 经由板式换热器进行热交换, 保障了数据中心内冷却液的洁净与安全。

Xinke Cold-Plate Liquid Cooling System adopts chip-grade precision cooling to deliver an efficient, reliable and energy-saving thermal solution for high-density data centers. This system utilizes indirect contact liquid cooling technology, where the coolant exchanges heat indirectly with core heat-generating components such as the CPU and GPU within the server via a cold plate, removing heat through an efficient heat exchange process. The system employs a closed-loop design with physical isolation between the primary and secondary sides, and heat exchange is carried out through plate heat exchangers, ensuring the cleanliness and safety of the coolant within the data center.

Enclosure-Side CDU for Data Center

数据中心边柜式CDU

XINKE LCS



可定制
Customizable

产品特点 Product Features

- 双泵冗余设计, 可实现单泵故障时自动切换备用泵运行。
Dual-pump redundancy design enables automatic switching to the standby pump in case of failure of one of the pumps.
- 智能化PLC控制程序, 实时监测、控制机组安全稳定运行。
Intelligent PLC control program to monitor and control the safe and stable operation of the unit in real time.
- 高效不锈钢板式换热器, 结构紧凑, 高防腐。
Highly efficient stainless steel plate heat exchanger with compact structure and high corrosion resistance.
- 支持Modbus RTU, 可选配TCP/IP。
Modbus RTU is supported, and TCP/IP is optional.
- 内部管路均采用不锈钢材质, 保证系统洁净无污染。
The internal pipes are made of stainless steel to ensure that the system is clean and pollution-free.
- 专家级故障诊断, 运维简单。
Expert level troubleshooting for simple operations and maintenance.
- 国际知名品牌PLC控制器, 安全有保障。
Using PLC of internationally renowned brand, safety is guaranteed.

产品概述	Product Overview		
产品规格 Specifications and Models	DWW200-50A	DWW200-80A	DWW200-125A
机组宽度 Unit Width	600	900	1200
机组深度 (mm) Unit Depth (mm)	1200/1400		
机组高度 (mm) Unit Height (mm)	2000/2200		
制冷量 (KW) Cooling Capacity (KW)	200	500	1200
二次侧供/回水 (°C) Secondary Side Water Supply/Return (°C)	40/50		
二次侧流量 (m³/h) Secondary Side Flow (m³/h)	18	45	109
二次侧接口 (DN) Secondary Side Interface (DN)	50	80	125
一次侧供/回水 (°C) Primary Side Water Supply/Return (°C)	35/45		
一次侧接口 (DN) Primary Side Interface (DN)	50	80	125
系统耐压 (bar) System withstand pressure (bar)	≤10		
电源制式 (/) Power Supply (/)	380V~415V,3Ph,50/60HZ 460V~480V,3Ph,60Hz		

注: 本简介数据截至2026年3月, 可根据实际需求补充客户案例、合作伙伴等细节

Note: The data in this overview is as of March 2026, and details such as customer cases and partners can be supplemented according to actual needs.

Indoor High-Power In-Row CDU

室内列间大功率CDU

XINKE LCS



产品特点 Product Features

- 双泵冗余设计, 可实现单泵故障时自动切换备用泵运行。
Dual-pump redundancy design enables automatic switching to the standby pump in case of failure of one of the pumps.
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Highly efficient stainless steel plate heat exchanger with compact structure and high corrosion resistance.
- 支持Modbus RTU, 可选配TCP/IP。
Modbus RTU is supported, and TCP/IP is optional.
 - 内部管路均采用不锈钢材质, 保证系统洁净无污染。
The internal pipes are made of stainless steel to ensure that the system is clean and pollution-free.
 - 专家级故障诊断, 运维简单。
Expert level troubleshooting for simple operations and maintenance.
 - 国际知名品牌PLC控制器, 安全有保障。
Using PLC of internationally renowned brand, safety is guaranteed.

产品概述	Product Overview			
产品规格 Specifications and Models	XK-BGCDU-240	XK-BGCDU-600	XK-BGCDU-1200	XK-BGCDU-2500
额定换热量 (KW) Rated heat exchange capacity (KW)	240	600	1200	2500
水泵数量 Number of water pumps	1+1冗余 1+1 Redundancy	1+1冗余 1+1 Redundancy	1+1冗余 1+1 Redundancy	3+1冗余 3+1 Redundancy
水泵功率 (KW) Water pump power (KW)	5.5	11	18.5	45
产品尺寸 (宽*深*高) mm Product dimensions (W*D*H) mm	600*1200*2000	900*1200*2000	900*1200*2200	2100*1400*2400
输入电源参数 (V/Hz) Input power parameters (V/Hz)	AC380V/50Hz			
二次侧供/回液温度 (°C) Secondary side supply/return fluid temperature (°C)	40/50			
二次侧供/回液接口 (DN) Secondary side supply/return interface (DN)	DN50	DN100	DN125	DN150
二次侧供液流量 (m³/小时) Secondary side liquid supply flow rate (m³/h)	22	55	110	220
一次侧供/回液温度 (°C) Primary supply/return fluid temperature (°C)	35/45			
一次侧供/回液接口 (DN) Primary side supply/return interface (DN)	DN50	DN100	DN125	DN150
一次侧供液流量 (m³/小时) Primary side liquid supply flow rate (m³/hour)	22	55	110	220
冷却液 Coolant	乙二醇 Ethylene glycol			
系统耐压 (bar) System withstand pressure (bar)	<10			

注: 本简介数据截至2026年3月, 可根据实际需求补充客户案例、合作伙伴等细节

Note: The data in this overview is as of March 2026, and details such as customer cases and partners can be supplemented according to actual needs.

Rack-Mounted CDU for Data Center

数据中心机架式CDU

XINKE LCS



产品特点 Product Features

- 配置变频循环水泵，标配双泵冗余设计，故障自动切换。
It is equipped with frequency conversion circulating water pumps, and dual pump redundancy design as standard, which in the event of a pump failure can automatically switch to the other one.
 - 采用微通道换热器，加大换热面积，高效换热。
Microchannel heat exchanger is used to increase the heat exchange area for efficient heat exchange.
 - 可选风水换热/水水换热。
Optional air-water heat exchange/water-water heat exchange.
- 具有双极密码保护的智能控制系统。
Intelligent control system with bipolar password protection.
 - 配置彩色触摸屏，简单易操作。
It is equipped with a color touch screen so that it is easy to operate.
 - 标配RS485接口，支持Modbus协议。
It comes standard with RS485 interface and supports Modbus protocol.

产品概述	Product Overview	
规格型号 Specifications and Models	DWW30-20C	DWW50-25C
机组宽度 Unit Width	440	
机组深度 (mm) Unit Depth (mm)	900	
机组高度 (mm) Unit Height (mm)	177 (4U)	177 (4U)
制冷量 (KW) Cooling Capacity (KW)	30	50
二次侧供/回水 (°C) Secondary Side Water Supply/Return (°C)	40/50	
二次侧流量 (m³/h) Secondary Side Flow (m³/h)	2.6	4.4
二次侧接口 (DN) Secondary Side Interface (DN)	20	25
一次侧供/回水 (°C) Primary Side Water Supply/Return (°C)	35/45	
一次侧接口 (DN) Primary Side Interface (DN)	20	25
系统耐压 (bar) Primary Side Pressure Drop (bar)	≤10	
电源制式 (/) Power Supply (/)	380V~415V,3Ph,50/60HZ 460V~480V,3Ph,60Hz	

注: 本简介数据截至2026年3月，可根据实际需求补充客户案例、合作伙伴等细节

Note: The data in this overview is as of March 2026, and details such as customer cases and partners can be supplemented according to actual needs.

Data Center Liquid-Cooled Micro Module

数据中心液冷微模块

XINKE LCS

可定制
Customizable



产品简介 Production Introduction

- 芯科“数据中心液冷微模块”整合机柜系统、供配电系统、温控系统、管理系统、防雷接地系统、综合布线系统和消防系统，采用模块化、一体化高集成设计，适配小型机房等各种场景，提供一体化数据中心解决方案。

Xinke's "Data Center Liquid Cooling Micro-Module" integrates cabinet systems, power supply and distribution systems, temperature control systems, management systems, lightning protection and grounding systems, structured cabling systems, and fire protection systems. It adopts a modular and highly integrated design, adaptable to various scenarios such as small computer rooms, and provides an integrated data center solution.

产品特性&价值

Product Features & Value

- 封闭通道隔离冷热气流，消除局部热点
Closed channels isolate hot and cold airflow, eliminating local hot spots.
- 智能控制自动调节冷量输出，降低系统能耗
Intelligent control automatically adjusts cooling output to reduce system energy consumption.
- 多台设备组网联机，群控模式实现自动切换控制
Multiple devices can be networked together in a local area network, and automatic switching control can be realized in group control mode.
- 可实现双路供配电回路设计，大大减少配电系统的平均无故障时间
It enables a dual-circuit power supply and distribution design, significantly reducing the mean time between failures of the power distribution system.
- 风机冗余设计，支持在线维护，保障空调冷却系统稳定运行
The fan adopts redundant design and supports online maintenance to ensure the stable operation of the air conditioning cooling system.
- 从前端设计可靠到配电及制冷系统，形成多重可靠保障
From the reliability of the front-end design to the power distribution and cooling system, multiple reliable guarantees are formed.
- 各模块与机柜间采用“热插拔”技术，所有模块可以在线热插拔，实现“零”检修时间
The “hot swapping” technology is used between each module and cabinet, and all modules can be hot-swapped online to achieve “zero” maintenance time.
- 通过多种采集参数集中实时监测、报警功能齐全，有界面报警、短信报警、电话语音报警、声光报警、E-mail、智能联防联控、智能报表管理，自动生成历史日志记录曲线
It can be monitored in centralized and real-time through a variety of collected parameters, with complete alarm functions, including interface alarm, SMS alarm, telephone voice alarm, sound and light alarm, E-mail, intelligent joint prevention and joint debugging, intelligent report management functions, and can automatically generate historical log recording curves.
- 支持3D可视化，移动运维，支持人脸识别
3D visualization, mobile operation and maintenance can be supported, and face recognition can be supported.
- 高清门楣显示屏搭配21寸大屏，科技感十足
The high-definition lintel display screen is paired with a 21-inch large screen, which is full of technology.
- 供电链路智能监控，实现主动预防，制冷链路信息全局可视
Intelligent monitoring of the power supply link to achieve proactive prevention, all cooling link information is visible.

注：本简介数据截至2026年3月，可根据实际需求补充客户案例、合作伙伴等细节

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Data Center Computing Power Container

数据中心算力集装箱

XINKE LCS



产品简介 Production Introduction

- 芯科“数据中心算力集装箱”整合集成液冷CDU、机柜系统、供配电系统、温控系统、管理系统、防雷接地系统、综合布线系统和消防系统，采用模块化、一体化高集成设计，适配室内室外等场景快速部署，提供一体化数据中心解决方案。

Xinke's "Data Center Computing Power Container" integrates liquid cooling CDU, cabinet system, power supply and distribution system, temperature control system, management system, lightning protection and grounding system, comprehensive cabling system and fire protection system, adopts modular and highly integrated design to adapt to the rapid deployment of indoor and outdoor scenarios, so as to provide integrated data center liquid cooling solutions.

产品概述	Product Overview
型号 Model	SL-109
尺寸 (mm) Dimensions (mm)	13716*2438*2896
输入电压和频率 (HZ) Input Voltage and Power Frequency (HZ)	380/220V 50
运输重量 (KG) Est. Shipping Weight (KG)	8200
集装箱材质 Container Material	碳钢喷漆处理 Carbon Steel Paint Finish
配电柜的主开关 (A) Main Switch of Distribution Cabinet (A)	2X800
额定相电流 (A) Rated phase current (A)	1324
每台服务器的正常功率 (KW) Normal power of each server (KW)	7
每台服务器的最大功率 (KW) Maximum power of each server (KW)	7.7
每台服务器的额定电流 (A) Rated current of each server (A)	32
入口电缆 (KW) Entrance Cable (KW)	2 (4*500+1)
散热方式 Heat Dissipation Method	干式冷却塔/集成冷站 Dry cooling tower/Integrated Cooling Station

注: 本简介数据截至2026年3月, 可根据实际需求补充客户案例、合作伙伴等细节

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Dry Cooling Tower

干式冷却塔

XINKE LCS



可定制
Customizable

产品特点 Product Features

- 触液材质均采用SUS304材质，高强度、耐腐蚀、安全可靠，适用于各种换热介质。
The materials in contact with the liquid are made of SUS304, which has the characteristics of high strength, corrosion resistance, safety and reliability, so that it is suitable for all kinds of heat exchange media.
 - 触液材质均为SUS304，安全可靠。
All materials that in contact with liquid are SUS304, which is safe and reliable.
 - 可选配喷淋模块。
The spray module can be optionally assembled.
- 换热片采用防腐涂层铝翅片，换热性好，耐腐蚀。
The heat exchanger plate adopts anti-corrosion coated aluminum pins, which have good heat exchange performance and corrosion resistance.
 - EC轴流风机，10%-100%无极调速，精准温控。
It adopts EC axial fan, which can adjust the speed of 10%-100% infinitely, so that the temperature can be accurately controlled.
 - 可选配PLC控制系统。
PLC control system can be optionally assembled.

产品概述	Product Overview		
散热量 Environmental Temperature (KW)	154	1155	1320
进液温度 Liquid Inlet Temperature (°C)	45	45	45
出液温度 Liquid Outlet Temperature (°C)	35	35	35
环境温度 Environmental Temperature (°C)	38°C (配湿帘) 38°C(Equipped with wet curtains)		
湿球温度 Wet-bulb Temperature (°C)	25	25	25
流量 Flux (m³/h)	15.4	115.5	120
风机数量 Fan Quantity (PCS)	3	12	14
额定功率 Rated Power (KW)	12.45	49.8	58.1
进出口径 Input and Output Diameter (DN)	50	125	125
电源制式 Power Supply (I)	380V~480V,3Ph,50/60HZ		
机组长度 Unit Length (mm)	4300	10000	11000
机组宽度 Unit Width (mm)	1700	2620	2620
机组高度 Unit Height (mm)	2000	3100	3100

冷却塔尺寸可根据客户需求定制
The Cooling Tower Dimensions can be customized according to customer demand

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Integrated Cooling Station for Data Center

数据中心集成冷站

XINKE LCS



产品特点 Product Features

- 整机集成泵循环模块，方便安装部署。
Integrated pump circulation module in the whole machine for easy installation and deployment.
 - 知名品牌压缩机，稳定可靠。
The compressor is from a well-known brand, it is stable and reliable.
 - 智能化控制程序，实时监测、控制机组安全稳定运行。
Intelligent control program to monitor and control the safe and stable operation of the unit in real time.
 - 支持Modbus RTU，可选配TCP/IP。
Modbus RTU is supported, and TCP/IP is optional.
- 专家级故障诊断，运维简单。
Expert level troubleshooting for simple operation and maintenance.
 - 触摸屏可多级密码设定，保护信息安全。
Touch screen can be set with multi-level password to protect information security.
 - 易操作的彩色人机交互界面，方便管理人员及时了解机组运行情况。
The easy-to-operate color human-computer interaction interface is convenient for management personnel to understand the operation of the unit in time.

产品概述	Product Overview	
规格型号 Specifications and Models	DCW-2000B	DCW-6000D
外形长 (mm) Exterior Length (mm)	4050	8000
外形宽 (mm) Exterior Width (mm)	1900	2500
外形高 (mm) Exterior Height (mm)	2750	2600
制冷量 (KW) Cooling Capacity (KW)	200	600
额定供液温度 (°C) Rated Liquid Supply Temperature (°C)	25	25
环境进风温度 (°C) Ambient Air Inlet Temperature (°C)	35	35
供液流量 (m³/h) Flow Rate of Liquid Supply (m³/h)	42	90
供液压力 (bar) Pressure of Liquid Supply (bar)	2.3	4
最大供液压力 (bar) Maximum Primary Side Interface (bar)	4.8	4.3
额定功率 (KW) Rated Power (KW)	81.5	221.5
管路接口 (DN) Pipe Interface (DN)	80	100
供液温度设定范围 (°C) Setting Range of Liquid Supply Temperature (°C)	7-35	
电源制式 (/) Power Supply (/)	380V~415V,3Ph,50/60HZ 460V~480V,3Ph,60Hz	

设计环境温度32度
Designed for an ambient temperature of 32°C

冷却塔尺寸可根据客户需求定制
The Cooling Tower Dimensions can be customized according to customer demand

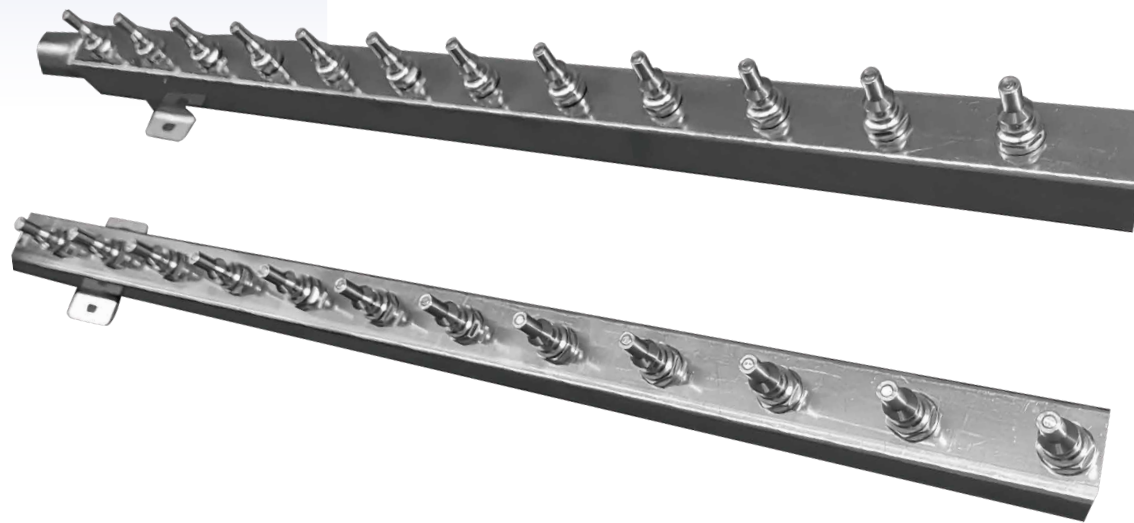
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Water Distributor

分水器

可定制

Customizable



产品特点 Product Features

- 实现冷热水均匀分配，精准控制各支路流量与温度，保障机房散热稳定。
It achieves uniform distribution of hot and cold water, precisely controls the flow and temperature of each branch, and ensures stable heat dissipation in the computer room.
- 集成阀门、仪表接口，可单独调节支路，检修维护不影响整体系统运行。
It integrates valve and instrument interfaces, allowing for individual adjustment of branch circuits, and maintenance does not affect the overall system operation.
- 流道设计合理，阻力小、压力损失低，显著降低空调及水泵系统能耗。
The flow channel is reasonably designed, with low resistance and low pressure loss, which significantly reduces the energy consumption of air conditioning and water pump systems.
- 结构紧凑、集成度高，简化机房管路布置，节省机房空间与安装成本。
With its compact structure and high integration, it simplifies the layout of computer room piping, saving computer room space and installation costs.
- 减少管路波动与气堵，避免局部过热或供冷不均，提升机房运行安全性。
Reduce pipeline fluctuations and air blockages, avoid localized overheating or uneven cooling, and improve the safety of computer room operation.
- 采用优质耐腐蚀材质，承压能力强，适应数据中心长期连续运行环境。
Made of high-quality corrosion-resistant materials, it has strong pressure resistance and is suitable for long-term continuous operation in data centers.

UQD Quick Connector

UQD 快速接头

可定制

Customizable

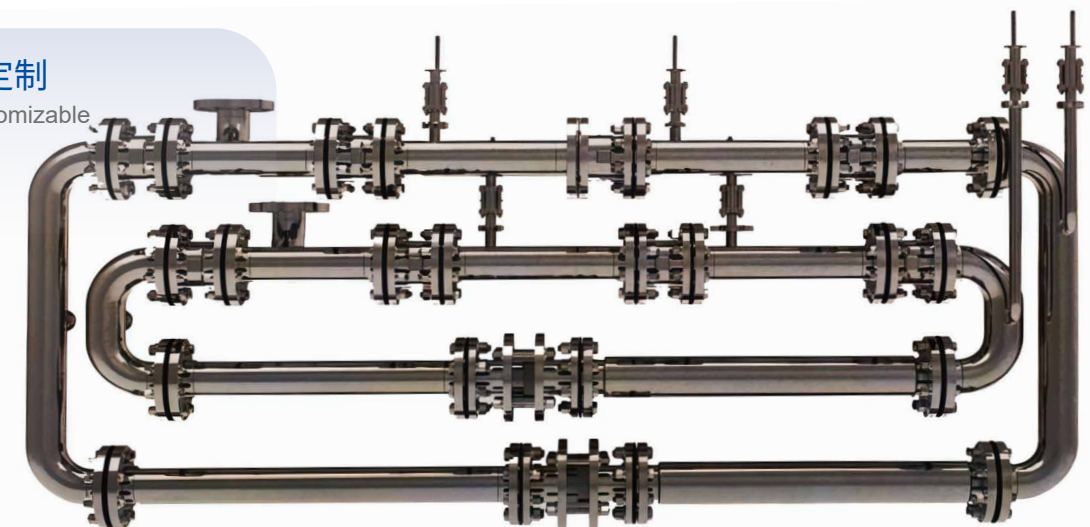


Ring Pipeline

环形管路

可定制

Customizable

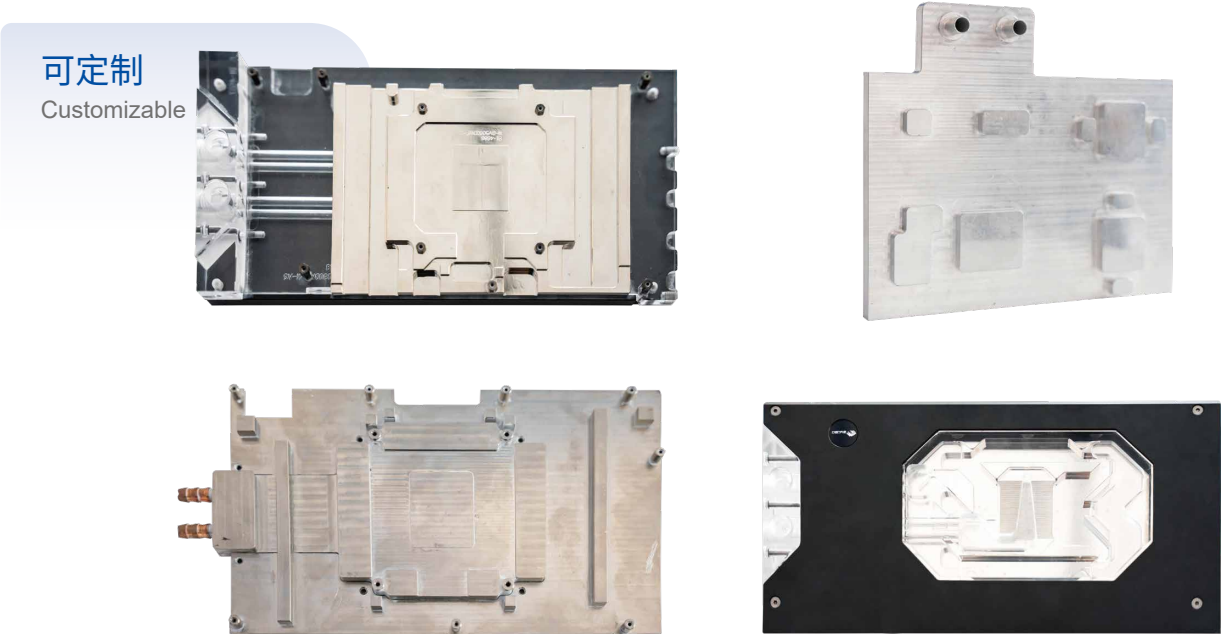


Water-Cooled Plate

水冷板

Parallel Conversion Module

并机转换模块



产品特点

Product Features

- 水冷换热系数远高于风冷，可稳定带走高密度算力产生的大量热量。
Water cooling has a much higher heat transfer coefficient than air cooling, and can stably remove the large amount of heat generated by high-density computing power.
 - 降低散热设备功耗，减少数据中心能耗，优化 PUE。
Reduce the power consumption of cooling equipment, reduce data center energy consumption, and optimize PUE.
 - 水流均匀覆盖发热区域，避免局部过热，保障设备长期稳定运行。
The water flow evenly covers the heating area, avoiding localized overheating and ensuring long-term stable operation of the equipment.
- 能够大幅度减少高转速风机噪音，机房环境更安静，运维更舒适。
It can significantly reduce the noise of high-speed fans, making the computer room environment quieter and operation and maintenance more comfortable.
 - 适配 AI、GPU、高性能服务器等高功耗场景，满足高密度部署需求。
It is compatible with high-power scenarios such as AI, GPU, and high-performance servers, and meets the needs of high-density deployment.
 - 低温稳定运行，延缓元器件老化，提升硬件可靠性与使用寿命。
Stable operation at low temperatures slows down component aging and improves hardware reliability and lifespan.



PDU

PDU



Data Center Solution Showcase

数据中心案例展示

XINKE LCS

数据中心液冷机柜模块 Data center liquid cooling cabinet module



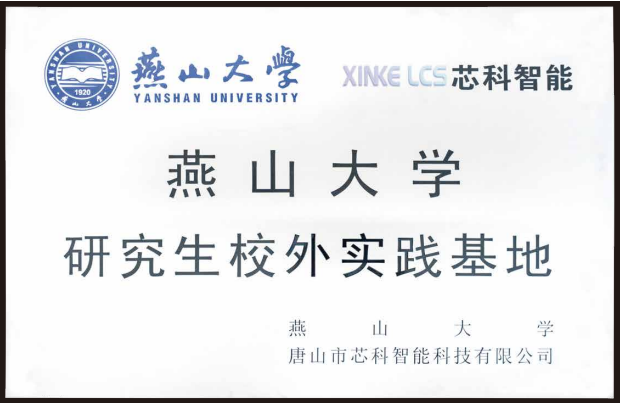
数据中心边柜式CDU Enclosure-Side CDU for Data Center



Qualification Certification

资质认证

XINKE LCS



Strategic Partners

战略合作伙伴

XINKE LCS

