



ByteCool™

Direct-to-Chip Liquid Cooling System

> > Foundation of Digital Future

The one stop precision cooling solutions for you to build
High Density, Efficient and Sustainable Data Centers.



Efficiency Prefabricated

Why Choose Us

We are experts in data center thermal management system.



Quality

Products designed with heart featuring reliable quality and balanced cost to improve your business margin and performance.



Speed

A professional team always standby with service spirit and quick response to support your business agility.



Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications



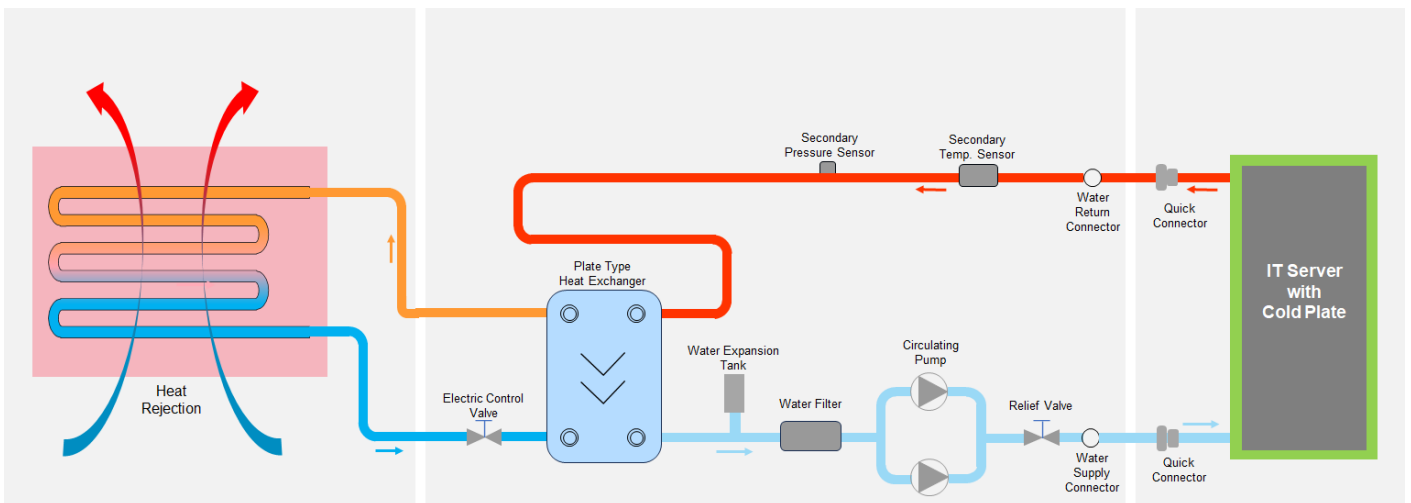
The World Going Sustainable



We are standing at an important tuning point, where we need to use the most advanced and reliable technologies to build data centers into the Energy Efficient and Carbon Neutral way.

Our Efficiency Approach

GREEN DATA CENTER



**Maximized Efficiency
with Free Cooling**



**Smart &
Intelligent Control**



**Full year 7x24
Uptime with hybrid
working mode.**



**Integration from
Components to
System**

ByteCool™ Liquid Cool CDU

The high power density of water-cooled server systems presents a significant challenge for their cooling systems.

ByteCool™ water-cooling solutions is designed to integrate and optimize the heat exchange, flow distribution, pressure management, monitoring, and heat transfer of water-cooled server systems.

ByteCool™ system includes row-level/rack-mounted **liquid-to-liquid CDU units** and row-level **liquid-to-air CDU units**, fluid quick-connect manifolds, outdoor dry cooler units (optional), outdoor natural cooling chiller(optional), and monitoring management system (optional).



Liquid-to-Liquid CDU



Liquid-to-Air CDU



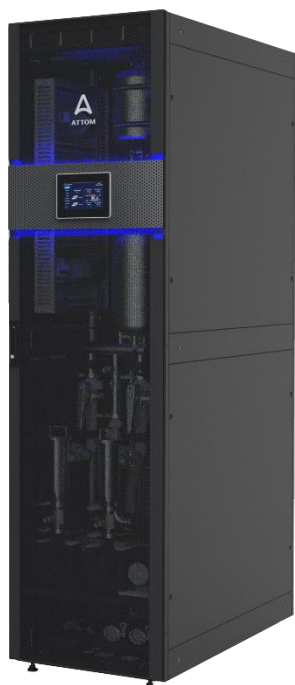
Manifolds

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ByteCool™ – Sidecar CDU

Product Description

ByteCool™ –Sidecar CDU is a liquid-to-air coolant distribution unit for liquid cooling systems. It combines high reliability pumps and EC fans, together with smart control system to create a closed liquid loop for high density liquid cool server, eliminating the need for facility water system (FWS), allows liquid-cooled equipment to operate in air-cooled environment. Support to seamless integration with direct-to-chip cooling delivers superior performance, making the solution ideal for data center retrofits and scalable growth.



Key Features

- No need primary facility water system, easy for installation and configuration.
- High performance up to 150kW cooling capacity.
- Dual pumps(N+N) and inverters for 2N high redundancy reliability.
- Hot-swappable EC fans in N+1 redundancy for easy operation.
- Flexible hose connections enable adaptable installation.
- Support top and bottom piping connections to IT equipment.
- Secondary loop fluid self-filling designs
- Full online monitoring of unit temperature, pressure and fluid flow
- RS485 RTU Modbus, TCP/IP SNMP, Webserver for easier monitoring
- Optional dual power supply, supporting high level data center applications.

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ByteCool™ – Sidecar CDU



TECHINICAL SPECIFICATIONS

MODEL

BT-080-CA

Cooling Type	Liquid-Air
Dimension(W*H*D) – mm	600*2200*1200
Secondary Water Flow –LPM	120
Approaching Temperature – °C	13
Cooling Capacity – kW	80
Power Consumption – kW	5.8
ASHRAE Working Category-Liquid	W3
ASHRAE Working Category-Air	A2
Primary Air flow – m³/h	16000
Primary Inlet Air Temp.– °C	27
Secondary Fluid Filtration	50-micron
Secondary Medium	PG25
Secondary Connection - mm	DN32
Power Input	208-264/1Ph/50-60Hz
FLA- A	30
ATS	Optional
Monitoring Ports	Modbus-RTU, Web, Modbus-TCP, optional with SNMP

Notes:

- 1、 Customization is acceptable.
- 2、 The technical data is to be changed without prior notifications.

ByteCool™ – Sidecar CDU DX Type



TECHINICAL SPECIFICATIONS

MODEL	BT-150-CA
Cooling Type	Liquid-Air
Cooling Capacity –kW	150
Primary System	Air Cooled DX Dual System
Compressor Type	Inverter
Refrigerant Type	R513A
Fan Type	EC
Air Flow –m3/h	44000
Return Air Temp. -°C	29.5
Supply Air Temp. -°C	43.6
Secondary Loop Medium Type	25% Propylene Glycol
Secondary Water Flow –m3/h	13.6
Secondary Water Pressure Drop – kPa	53.6
Secondary Inlet/Outlet Water Temp. -°C	40/30
Power Input ¹⁾	480V/3Ph/50-60Hz
FLA- A ¹⁾	48.3
Power Input ²⁾	380-415V/3Ph/50-60Hz
FLA- A ²⁾	61.0
Dimension(W*H*D) – mm	1200*1200*2400
Weight –kg	626
ATS	Optional
Monitoring Ports	Modbus-RTU, Web, Modbus-TCP, optional with SNMP

Notes:

- 1、 Customization is acceptable.
- 2、 The technical data is to be changed without prior notifications.

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One-stop Provider of Precision Cooling

Air Cool Platform



Rack Cool

- 3.9- 12kW Split type
- 3.5-5.5kW Package Type



Ceiling Cool

- 12- 36kW Split Type



Wall Cool

- 1.5- 30kW Package Type
- 7.5-12.8kW Split Type



Row Cool

- 5.6- 90kW Split Type
- 5.6 – 10.8kW Package Type



Room Cool

- 5.5- 120kW Split DX Type
- 24 – 260 kW CW Type
- 80-400kW Fanwall System

Liquid Cool Platform



Direct-to-Chip Liquid Cool

- 100kW CDU Rack Mount Type
- 350 – 1500kW CDU Row Mount Type, dry cooler, and water connection kits.



RDHx

- 25-30kW Split DX Type
- 30 – 65 kW CW Type



Immersion Liquid Cool

- 25kW – 100W immersion cooling system.



We believe the world is
being totally connected.
The digital connections are
creating smart intelligence
and a **better future**.

We design and deliver
green efficient data center
infrastructure products to
build foundation of digital
future.



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