

# Technical Data Sheet



## ICEOTOPE KUL AI DL380

### KUL AI DL380 FEATURES:

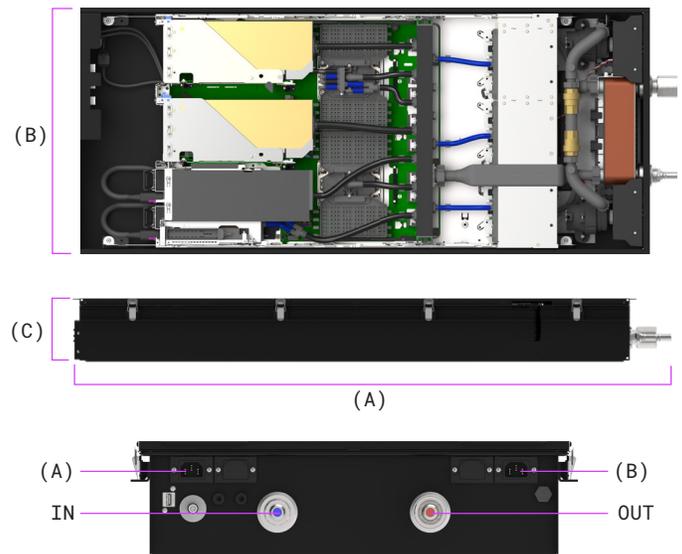
- HP DL380 Gen11 rack server
- KUL AI rack-mountable enclosure
- Up to 3 DW or 8 SW NVIDIA GPUs

A wide range of immersion-ready configurations are supported; contact [sales@iceotope.com](mailto:sales@iceotope.com) for more information.

### PRECISION LIQUID COOLING BENEFITS<sup>1</sup>:

- Up to **40%** less power usage
- Up to **96%** less water usage
- Up to **83%** lower cooling costs

<sup>1</sup>. Per kW of ITE Power; vs. air-cooled servers: <https://iceotope.info/cundallreport>



\*ILLUSTRATIVE IMAGES NOT REPRESENTATIVE OF FINAL PRODUCT

Sustained Compute Performance	Low Op-Ex Costs	Extended UPS Runtime	Increased Hardware Stability
Environmental Resilience	Near Silent Operation	Sustainable Operation	Rapid Deployment

### DIMENSIONS / WEIGHT

Length (A)	47.6" / 121cm
Width (B)	21" / 53cm
Height (C)	3U / 13.5cm
Installed weight (NET max)	179 lbs / 81kg
Packaged weight (GROSS max)	258 lbs / 117kg
Packaged Dimensions	L54"/136cm W25"/64cm H24"/62cm

### ENHANCED PRODUCT OFFERINGS

- System Redundancy**  
Incorporated dual power inlet + 2x enhanced-spec pumps
- Scalability Package**  
Modular architecture, dielectric fluid fill level, coolant temperatures, enhanced pump metrics and reporting
- Serviceability Package**  
Removable chassis hoses + slide rails for ease of in rack servicing

### POWER

AC Input type and max quantity (A+B)	C22 x 8
AC Input voltage	220-240V AC 1ph
AC Input frequency	50-60Hz
Maximum configured power of XE7745 + KUL AI (hi-spec config)	8.6 kW (power and cooling redundant)

### COOLING REQUIREMENTS

TCS Flow rate per enclosure	1.2 US Gal.pm / 4.6 Lpm
Maximum TCS inlet temperature	104 °F / 40 °C
TCS fluid compatibility	PGM / EGM / water + inhibitor pack
Max rated TCS system pressure	4.4 bar(g) / 64 PSI(g)
Dielectric Fluid Qty (max)	5 US Gal. / 20 L



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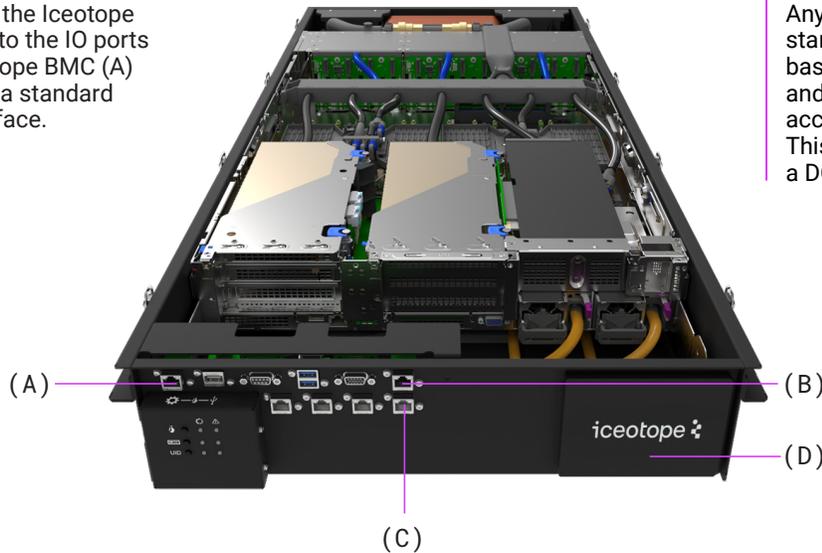
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The server integrated in the Iceotope enclosure is connected to the IO ports on the front panel. Iceotope BMC (A) can be integrated using a standard Redfish Compliant interface.



Any existing DCIM/BMS can use standard commands to run alerting based on Iceotope metrics. Iceotope and Server BMC (A) can also be accessed via the same interface. This simplifies the integration with a DCIM/BMS program.



## MONITORING & MANAGEMENT

KUL AI Ports (A)	1x 1GB Ethernet + 1x USB 2.0
Server Basic Ports (B)	1x 1GB Ethernet + 2x USB 3.0 + 1x VGA
High Speed Networking Ports (C) (D)	4x 10GB Ethernet + 4x QSFP28 or 4x SFP28 or up to 4x Optical Ports
Integral server specific monitoring	Full access to Gigabytes onboard BMC monitoring functionality
Precision Liquid Cooling system specific monitoring	Pump health, pump rpm and power, fluid fill level, temperature

## TECHNICAL SPECIFICATIONS

Processor	2x 4th/5th Gen Intel Xeon Scalable Processors
Memory	32 DDR5 DIMM slots, supporting 8 TB max Speeds up to 5600 MT/s
Storage Controllers	PCIe RAID: MR416i-p, SR932i-p, OCP RAID: MR416i-o, MR216i-o, MR408i-o
Drive Bays	Up to 3x 12 EDSFF E3.5 NVMe Gen 5 Drives Up to 3x 8 SFF/SATA/NVMe U.3 Drives HPE NS204i-u Gen11 NVMe Hot Plug Boot
Cooling	Single-phase hydrocarbon (see <a href="#">website</a> for approved fluid vendors)
Power Supplies	Dual 1000W AC Titanium Dual 1800W-2200W AC Titanium Dual 800W Low Halogen AC Platinum Dual 1600W Low Halogen AC Platinum
Embedded Management	HPE Management Console web interface (iLO) Redfish Web-based interface
GPU	Up to 3 Double-Wide or 4 Single-Wide NVIDIA GPUs
Networking	2x configurable network card up to 200Gb/s

## RACK INTEGRATION

Each KUL AI server is supplied pre-integrated complete with accompanying hoses, brackets, rails and other ancillaries required for simple rack integration. Dielectric fluid is provided separately.

## WARRANTY

Iceotope offers a comprehensive three year parts and labour warranty. Further detail on request.

## REGULATORY COMPLIANCE

Iceotope products are stringently engineered in accordance with relevant regional standards. Further detail on request.



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