

Technical Data Sheet

ICEOTOPE XE7740-IC



XE7740-IC FEATURES:

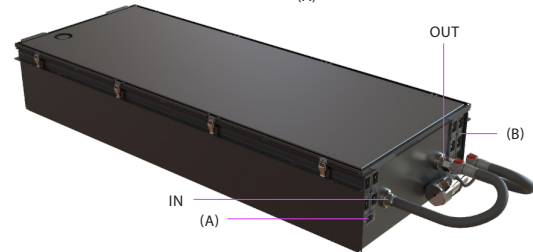
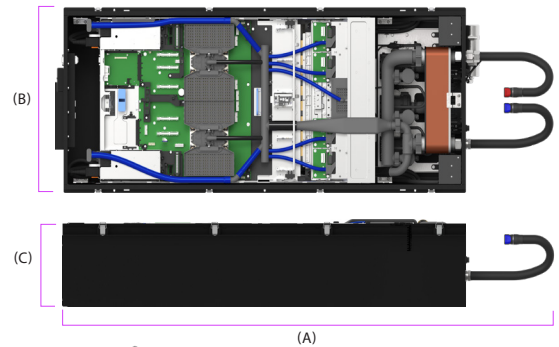
- Dell PowerEdge XE7740 server
- Precision liquid-cooled chassis
- Up to 8 NVIDIA H200 GPUs

A wide range of immersion-ready configurations are supported; contact sales@iceotope.com for more information.

PRECISION LIQUID COOLING BENEFITS¹:

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

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



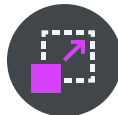
*ILLUSTRATIVE IMAGES MAY NOT REPRESENT FINAL PRODUCT



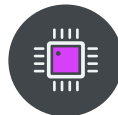
Sustained Compute Performance



Low Op-Ex Costs



Extended UPS Runtime



Increased Hardware Stability



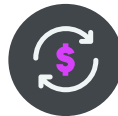
Environmental Resilience



Near Silent Operation



Sustainable Operation



Rapid Deployment

WORKING IN PARTNERSHIP WITH:



DIMENSIONS / WEIGHT

Length (A)	52.1" / 130cm
Width (B)	21" / 53cm
Height (C)	5U / 22.2cm
Installed weight (NET max)	348 lbs / 158kg
Packaged weight (GROSS max)	428 lbs / 194kg

ENHANCED PRODUCT OFFERINGS

System Redundancy

Incorporated Octa 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)	C19 x 8
AC Input voltage	220-240V AC 1ph
AC Input frequency	50-60Hz
Maximum configured power of XE7740 + KUL AI (hi-spec config)	8.6 kW (power and cooling redundant)

COOLING REQUIREMENTS

TCS Flow rate per enclosure	4.8 US Gal.pm / 18.1 Lpm
Maximum TCS inlet temperature	95 °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)	9 US Gal. / 34 L



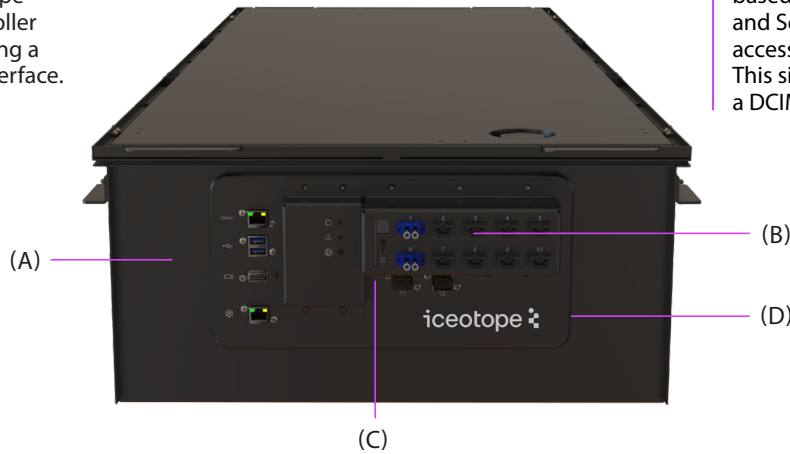
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The server integrated in the Iceotope enclosure is connected to the IO ports on the front panel. Iceotope baseboard management controller (BMC) (A) can be integrated using a standard Redfish Compliant interface.

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



MONITORING & MANAGEMENT

Iceotope BMC Ports (A)	1x 1GB Ethernet + 1x USB 3.0
Server BMC Ports (B)	1x 1GB Ethernet + 1x USB 3.0 + 1x VGA
High Speed Networking Ports (C) (D)	4x 10GB Ethernet + up to 16x Optical Ports
Integral server-specific monitoring	Full access to Dell onboard iDRAC monitoring functionality
Precision Liquid Cooling system-specific monitoring	Pump health, pump RPM and power, fluid fill level, temperature

TECHNICAL SPECIFICATIONS

Processor	2x Intel® Xeon® 6 Processors
Memory	32 DDR5 DIMM slots - RDIMM 3TB max
Storage Controllers	Internal Boot: Boot Optimised Storage Subsystem (BOSS-N1 DC-MHS); HWRAID 1 2 x M.2 NVMe SSDs
Drive Bays	Up to 8x EDSFF E3.5 Gen5 NVMe (SSD) 122.88 TB max
Cooling	Single-phase hydrocarbon (see website for approved fluid vendors)
Power Supplies	8x 3200W Titanium PSU
Embedded Management	iDRAC Remote Server Management Support Redfish Web-based interface
GPU	Up to 8 NVIDIA H200 GPUs (600W each)
Networking	Up to 8x PCIe NIC cards up to 200Gb/s 1 x OCP NIC card 3.0 (optional)

RACK INTEGRATION

Each 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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