

Technical Data Sheet

ICEOTOPE XE7740-IC

iceotope 

XE7740-IC FEATURES:

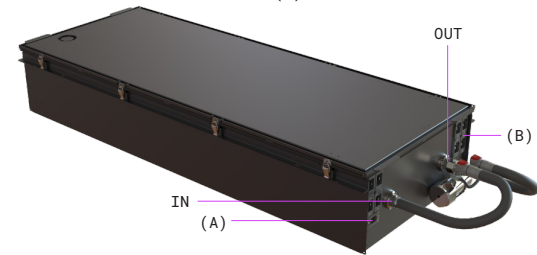
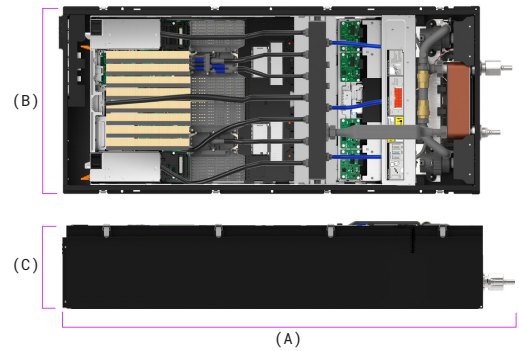
- Dell PowerEdge XE7740 server
- Precision liquid-cooled chassis
- Up to 8x DW or 16x SW GPUs

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




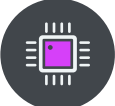




PRECISION LIQUID COOLING BENEFITS¹:

- 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 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

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)	C22 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



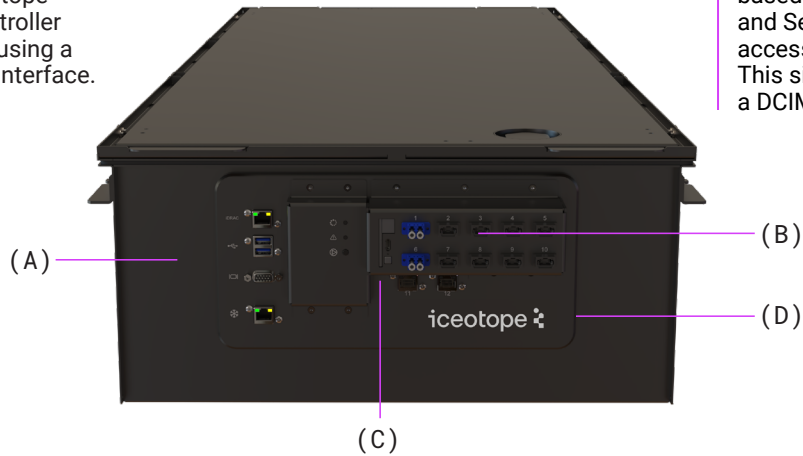
Technical Data Sheet

ICEOTOPE XE7740-IC

iceotope 

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 8x PCIe Gen 5 double-wide GPUs (600W each) or 16x single-wide GPUs (75W 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.



Iceotope believes the information in this Data Sheet to be accurate; however, Iceotope does not make any representation or warranty, express or implied, as to the accuracy or completeness of any such information and shall have no liability for the consequences of the use of such information. This Data Sheet and its contents does not constitute an order by Iceotope to sell any product. An order is made only by a quotation provided by Iceotope. The terms of sale and technical specifications in such quotation may vary from those set forth in this Data Sheet. Iceotope's acceptance of any order shall be in Iceotope's sole discretion, and all quotations and sales are subject to Iceotope's Terms and Conditions.

