

Technical Data Sheet

ICEOTOPE KULBOX R760



The Iceotope KulBox R760 delivers significant advantages for environments where enhanced thermal management, quiet operation and maximum performance are critical.

This compact solution uses liquid cooling to capture almost all of the heat generated by the system, which is then released outside through a liquid-to-air cooler.

ICEOTOPE KULBOX R760 PRODUCT FEATURES:

- 24U rack with 6 Iceotope KUL AI chassis
- 6 Dell R760 servers
- 12 Intel® Xeon® Platinum 8592+ Processors
- Top-of-rack network switch

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:

UNICOM Engineering, Inc.
A Division of UNICOM Global

SHIPPING / INSTALLATION / SERVICE / WARRANTY

Iceotope’s turn-key solution includes shipping, installation, operational training and handover. The service plan covers all parts and labor for 3 years, including coverage for all supplied hardware.

POWER / COOLING

Total Rack Power Draw	14kW
Cooler Power Draw ave.	5kW (estimated @ 68°F / 20°C air temp)
Cooler Power Draw max.	9.5kW
Total System Power Draw	19.5kW ave. / 23.5kW max
*Predicted pPUE ave.	1.3
Water Consumption WUE	0
Power (Indoor Rack)	400V - 460V AC / 3PE / 50Hz - 60Hz
Power (Outdoor Cooler)	400V - 460V AC / 3PE / 50Hz - 60Hz
Outdoor Cooler working Fluid	Water Glycol Solution
Server Chassis Coolant	Shell S3X
Outdoor Cooler to Rack Connection	2x 1" hose (flow & return)
Regions	UK / EU / USA / APAC

*pPUE can be enhanced with greater capex spend and space consumption on external cooler. pPUE may vary depending on deployment location, seasonal temperature variations and rack utilisation.

DIMENSIONS / WEIGHT

Rack size (inches)	L:61.1 / W:23.6 / H:50.9
Cooler size (inches)	L:28.4 / W:35.8 / H:49.2
Rack installed weight	600kg
Cooler Installed weight	180kg

ENVIRONMENTAL

Inside Air Temperature (local to rack)	95°F / 35°C MAX
Outside Air Temperature (local to cooler)	5°F / -15°C to 122°F / 50°C
Deployment Environment (local to rack)	Indoor Use Only / Not IP Rated
Deployment Environment (local to cooler)	Outdoor Use Only / IP54 Rated
Maximum Sound Level (local to rack)	< 40 dB
Maximum Sound Level (local to cooler)	< 64.7 dB

REGULATORY COMPLIANCE

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



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100% Liquid-Cooled

For further information on server cooling technology [click here](#)

Chassis rear coolant connection

DELL R760

2x Intel Xeon Platinum 8592+	700W
16x 64GB DDR5 Memory	160W
5x 3.84TB SSD SATA	50W
2x H100 GPU	700W
NIC: 1x OCP 25GB + 1x 100GB	30W
Motherboard	200W
Total	1840W

NETWORK SWITCH

32 port 100GB Ethernet	100W
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ENHANCED COOLING RESILIENCY

In the event of external power interruption or failure, internal dielectric fluid pumps will maintain system cooling for up to 5 minutes if backup power is still supplied to the rack.

The volume and heat capacity of the dielectric fluid used in Iceotope Kul AI servers provides a significant safety buffer, enabling extended UPS runtime before its thermal limits are reached. If external power is resumed within 5 minutes, the system will return to normal operation without additional intervention.

PDU

Power Configuration	60/63A, 240/415V
Switched Outlet Level Monitoring	C13/19



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