

Technical Data Sheet



ICEOTOPE KUL BOX G293

The Iceotope **KUL BOX G293** rack server delivers significant advantages for environments where enhanced thermal management, quiet operation and maximum performance are critical.

This compact server 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 technology reduces cooling costs by up to **83%** and water use by up to **96%** vs. air-cooled servers.

ICEOTOPE KUL BOX G293 PRODUCT FEATURES:

- 24U rack with 6 Iceotope KUL AI chassis
- 6 GIGABYTE G293-S45 servers
- 24x NVIDIA H200 NVL GPUs
- 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



OUTDOOR COOLER
*NOT TO SCALE

INDOOR RACK
*NETWORK CABLES NOT SHOWN

WORKING IN PARTNERSHIP WITH:

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	24kW
Cooler Power Draw (avg)	5kW (estimated @ 68°F / 20°C air temp)
Cooler Power Draw (max)	9.5kW
Total System Power Draw	29kW (avg) / 33.5kW (max)
*Predicted pPUE (avg)	1.2
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 single-phase hydrocarbon (see website for other approved vendors)
Outdoor Cooler to Rack Connection	2x 1" (flow & return)
Regions	UK / EU / USA / APAC

* pPUE may vary depending on deployment location, seasonal temperature variations and rack utilization.

¹ <https://iceotope.info/cundallreport> Page 4: Total Cost of Cooling per KW of ITE Power: - 83.5%; Water usage per KW of ITE Power: - 96.1%

DIMENSIONS / WEIGHT

Rack size (inches)	L:61.1 / W:23.6 / H:50.9
Cooler size (inches)	L:35.8 / W:28.3 / H:49.2
Rack installed weight	750kg
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

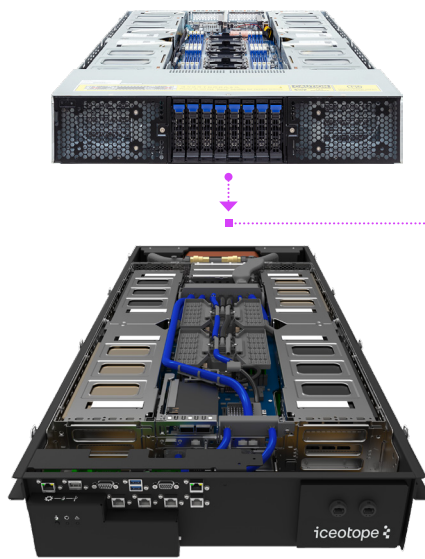
Iceotope products are stringently engineered in accordance with relevant regional standards. Further detail on request.



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100% LIQUID-COOLED



FOR FURTHER INFORMATION ON SERVER COOLING TECHNOLOGY [CLICK HERE](#).



AIR-COOLED



CHASSIS REAR COOLANT CONNECTION

EXAMPLE GIGABYTE G293-S45 SERVER

4x NVIDIA H200 NVL GPUs	2400W
2x Intel Xeon 5 CPUs	700W
16x 256GB DDR5 Memory	200W
8x 3.84TB NVMe Drives	100W
NIC: 1x 10G + 1x 200G QSFP	75W
Motherboard & other components	200W
Total	3675W

NETWORK SWITCH

32 port 100G Ethernet	TBC
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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 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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