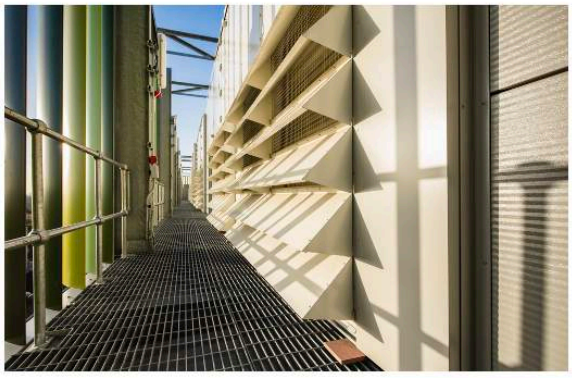
DATA SHEET – Technology Pod

Our innovative Technology Pod is specifically designed for HPC and GPU-accelerated AI, machine learning and financial grid computing. Designed to meet the challenge of high-density applications the Technology Pod integrates direct dialectic liquid cooling technologies to deliver economically superior outcomes in terms of power utilisation and energy efficiency resulting in reduced TCO.

Offering rack densities of up to 80kW across a smaller data centre footprint, the Kao Data Technology Pod represents a step-change in HPC infrastructure.



FEATURES

- Compact Pod architecture incorporating 4-6 racks
- Utilisation of 80kW per rack / 480kW per Pod
- Direct dialectic liquid cooling capabilities
- Housed in a hyperscale-equivalent, highest-grade data centre
- 100% power and cooling availability guaranteed.

BENEFITS

- 'Future-proof', cutting edge design for HPC
- Low TCO - hyperscale levels of energy efficiency
- Compact design increases data hall utilisation
- Military grade security standards and procedures
- Sustainable - 100% certified, renewable energy.

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Registered office: Kao Data Campus, London Road, Harlow CM17 9NA.

CAMPUS & DATA CENTRE

- 15 acre, +£230M campus supporting an ITE load of over 40MW
- 150,000 sq ft of technical space
- 24/7 fully managed on-site NOC
- Built to Uptime Tier III equivalent
- OCP Ready ™ facility.

POWER & RESILIENCY

- Proven 100% uptime track record
- 43.5MVA supplied from UK National Grid substation
- Dedicated on-site substation (33kV/11kV)
- Minimum N+1 level of resilience and redundancy throughout
- UPS backed with A, B, and C power feeds.

NETWORK CONNECTIVITY

- Carrier neutral data centre
- Variety of carrier connectivity solutions including dark fibre on-site
- Megaport-connected – rapid access to hyperscale cloud providers.

BUILDING CONTROLS

- Early warning VESDA and HSSD control systems
- Water-mist fire suppression system
- Data hall gaseous contaminate monitoring.

SECURITY & MONITORING

- Security personnel on-site 24/7/365
- Exterior and interior 3m high 'anti-climb' campus perimeter fences
- Campus wide CCTV surveillance
- Vehicle barriers, bi-folding speed gates and pedestrian turnstiles
- Authenticated single-flow mantrap entry, access cards, biometric entry system.

ENERGY EFFICIENCY

- Hyperscale levels of efficiency from rack level to full occupancy
- Industry-leading PUE of 1.2 (even at partial loads)
- UK's 1st 100% free-cooling multi-tenant data centre.

SERVICES & SUPPORT

- Flexible range of colocation solutions – Cell, Pod, Suite options
- Range of power densities up to 80kW per rack
- Specialist high density HPC, AI and GPU-powered hardware provision
- Build-to-Suit scalability for hyperscale and industrial enterprise deployments
- 24/7 onsite remote and smart hands
- Dedicated office space, hot-desks and meeting rooms available
- Secure on-site parking.

SUSTAINABILITY

- Certified 100% renewable energy
- Designed to BREEAM Excellent standards
- ASHRAE TC 9.9 environmental guidelines compliant
- Campus-wide recycling
- Electric vehicle charging points.

INDUSTRY CERTIFICATIONS

- ISO 9001:2015 (Quality Management Systems)
- ISO 14001:2015 (Environmental Management Systems)
- ISO 27001:2013 (Information Security Management)
- ISO 45001:2018 (Occupational Health & Safety Management)
- PCI DSS v3.2 compliant
- BREEAM Excellent.

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