London II

CyrusOne Data Centers,
Unit F Prologis Distribution Park
Stockley Park, West Drayton
UB7 9FN
United Kingdom

Strategically located to the west of London within the thriving Stockley Park business estate, **CyrusOne London II** delivers 13.62 MW of IT load to 7,135 sq m of technical space across two floors. The facility is purpose-built, offering industry-leading energy efficiencies, the latest adiabatic free cooling technology, ultra-low PUEs, multilayer security, carrier neutrality and a Tier III+ level of resilience.

From initial design through to construction and ongoing operation, every aspect of the data center has been conceived and managed by our expert in-house team. We listen to understand customers' requirements and directly translate them into clear designs. We work hard to build trusting relationships, and our technical ability, coupled with our straight-talking approach, allows us to build exactly what customers want.

Overview

- 13.62 MW of IT load delivered to 7,135 sq m of world-class technical space across two floors
- Active / Active 11 kV dual redundant power supplies with fully flexible IT power solutions
- Ultra-low PUE through the use of a chilled water system with external adiabatic free cooling chillers
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers
- Bespoke and scalable data halls sized to customer requirements
- Dedicated UPS plant to each data hall
- 1,200 mm raised access floor with 3,300 mm clear height in the data halls
- Multilayer levels of physical and electronic security with 24/7 year round on-site personnel

London II Technical Specifications

CyrusOne

Buildings

- A total of 7,135 sq m of technical space over two floors
- Raised access floor loading 12 kN per sq m
- Delivery bay with access to a 3-tonne goods lift
- Bespoke and scalable data halls
- Dedicated offices, buildroom and/or ancillary space adjacent to each hall, built to your requirements
- On-site electric vehicle charging points

Power

- Operated with 13.62 MW of total IT load
- Active / Active 11 kV dual redundant power supplies with fully flexible IT power solutions
- All IT power metered and charged as consumed at dedicated MV meters
- N+N power solutions dedicated to each hall, with separate UPS strings
- Minimum N+N UPS with 10-minute battery back-up as standard
- Fully rated N+1 back-up generators with 48-hour fuel autonomy at full load, capable of continuous running
- Refuelling contracts to ensure timely replacement

Energy Efficiency

- Scalable UPS capable of ECO or sequence operation, with highly efficient UPS modules
- Ultra-low PUE through the use of adiabatic cooling plant
- Variable speed drive adiabatic fans
- Variable speed drive water supply pump sets
- ASHRAE T9 hall conditions
- Air cooled plant rooms with variable speed fans
- Supply temperature control, with cold aisle containment
- LED lighting with microwave detection
- Energy efficiency based control algorithms for optimum energy usage

Compliance (Operated to International Standards)

- ISO 14001 Environmental Management
- ISO 27001 Information Security Management
- ISO 9001 Quality Management
- ISO 50001 Energy Management

Cooling

- N+1 adiabatic cooling plant
- Dedicated cooling infrastructure individually managed and linked to BMS
- Dedicated Pressurisation DFU's at minimum N+1 per hall
- Independently regulated temperature and humidity to each space

Connectivity

- Carrier neutral access (via diverse active A+B Meet Me Rooms)
- Strict cable management policy

Security

- 3 metre high secure perimeter fence
- External CCTV and Geoquip trembler wire to fence
- Manned entrance to site entrance with dual gates and rising bollards
- 24/7 year round on-site security located in secure control room
- Extensive CCTV and access control throughout the facility
- Progressive layers of security to restrict access through the site
- Mantraps with biometric readers into data halls are provided if required

Building and Energy Management Systems (BMS & EMS)

- Power and building monitoring systems to provide alarms
- Power surge management
- Dedicated 24/7 year round facilities management team
- 24/7 year round on-site M&E engineers undertaking Planned Preventative Maintenance (PPM) programmes
- Real-time monitoring of electrical and mechanical systems

Fire Detection and Suppression

Data halls and critical A&B plant rooms are constructed from one hour fire rated enclosures to create separate fire zones

- Three stage fire detection systems into data halls and UPS plant areas
- VESDA (Very Early Smoke Detection Apparatus)
- Fire detection in all rooms and in voids as required
- Gas suppression to data halls and UPS rooms with dedicated bottles
- Double knock approach gas suppression to all areas, single zone activation
- Fire detection and suppression systems interconnected to central BMS

Typical Floor Plan