



## Data Centre Services

# JT Rue Des Pres DATA CENTRE

## Facility Product Description

JT's Data Centre Hosting Service provides a secure computer room environment with protected and backup power, security and bandwidth.

### Data Centre specification

JT's Data Centre provides a secure, environmentally controlled and protected facility, with reliable connectivity providing:

- 2 KW AC electrical power to each rack
- Dual fed UPS (10 minutes battery autonomy at full load)
- Generator backup (24 hour diesel supply)
- Fully redundant air conditioning system
- VESDA early warning fire detection
- Temperature and humidity sensors
- Water detection sensors
- FM 200 Gas Suppression

### Rack specification

All racks are lockable and designed to accommodate multi-vendor servers and are compliant with IBM, Compaq, Dell, Hewlett Packard and Sun:

- Earth continuity
- Dual power distribution units (2x32 amp circuits)
- Dual power strips per unit
- Dual redundant UPS (10 minutes battery autonomy at full load)
- Cable management strip per unit
- 600 x 1000mm rack space

All racks in the Data Centre are connected to a centralised switching environment with 10/100 Mbps.

Ethernet or fast Ethernet presentation provided. VLANs can also be provided.



### Contact our Business Solutions team

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# Data Centre Services

## Data Centre - Air conditioning

Climate control for the Data Centre is provided by 12x Denco 70(KW) DX units. Each one of these units circulates 5.6 cubic metres of air per second. The total cooling for the data centre is 840 (KW). The air conditioning in the Data Centre is retained at an N+2 situation ensuring that if one air conditioning unit fails there is sufficient cooling capacity provided by the other air conditioning units.

## Power room - Air conditioning

The power room has its own air conditioning units, which are independent of the cooling system for the Data Centre. To ensure that the UPS is kept in the optimum climate, 2x Daikin DX units have been installed.

## Electricity

JT has its own electricity substation, which is dedicated to providing the power supply to the whole site. The local electricity company has provided this Data Centre with dual 2000 amp / 1500 KVA HV electrical supplies which are diversely fed from HV network.

## Data Centre

The power to the facility is fed by dual 1.5 mva transformers. Each cabinet is supplied with 2x 32 amp single phase supply via separate CPDU's. Provision has been made to accommodate all individual power requests.

## Generator

The Data Centre is supported by four on-site generators which are contained within their individual acoustic housings separate to the Data Centre. Each unit is rated at 550kva. In the unlikely event of a generator failure these units are configured to N+1 to provide total power resilience.



Alarmed components	Action taken	Monitoring
Engine run	Immediate action	24/7/365
Engine fail	Immediate action	24/7/365
Low fuel	Immediate action	24/7/365
Low water	Immediate action	24/7/365
Battery charger fail	Immediate action	24/7/365

Test	Frequency
Off load	4 weekly
Full load	Yearly



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### Fuel storage

Each generator has its own integral 24 hour fuel tank.

### UPS

2x Chloride 800KVA Trienergy units, 3 phase in, 3 phase out, full on-line, double conversion UPS units, each supplies 10 minutes battery autonomy with 400 sealed for life batteries. The UPS equipment has been configured with 12 pulse rectifiers and 5% harmonic input distortion filters.

The UPS units have been configured as a N+N UPS having both static and manual by-pass capabilities. In addition there is a further external, total wrap around 800 amp rated by-pass system, complete with its own independent mains supply.

The power output of the system is configured as 800 KVA maximum to provide 100% redundancy; the run time is 10 minutes per UPS at 100% load, which is variable to the level of applied load. Every 3 months the level of applied load and characteristics are examined on the UPS.

### Security systems

The facility is protected by a Siemens Alarm combined intruder and door access control system, utilising door contacts and dual technology movement detectors, which all report back to a centralised Siemens system with its onward connected signalling.

Access is controlled by HID proximity fob readers with entry into the Data Centre by combined individual fob and PIN code. In addition, a digitally recorded CCTV system is installed with cameras viewing all entrances into the Data Centre.

All information recorded by the system is downloaded and stored on to a hard disc digital recording system. The systems are maintained by Computer Protec and are checked bi-annually at six-month intervals.

Computer Protec provide JT with reports of maintenance visits detailing the status of the system and highlighting any errors found. As well as CCTV, security guards patrol the data centre on a 24/7/365 basis.

### Fire detection

The facility is protected by a sophisticated particle detection system, the Very Early Smoke Detection Apparatus (VESDA) LaserPLUS system has been installed. This system detects fire at the earliest possible stage by drawing in air through a network of air sampling pipes. The detection chamber uses a Class 1 laser to achieve the optimum response to a vast range of smoke types. Using unique detection principles, the LaserPLUS has a sensitivity range of 0.005 – 20% obscuration/m. These systems are constantly monitored by our Network Operations Centre (NOC).



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## Gas suppression

In addition to protection provided by the VESDA laser system, the Data Centre is equipped with an FM-200 Fire Suppression agent. FM-200 has zero ozone depleting potential, and is typically deployed where an electrically non-conductive medium is needed and people compatibility is an overriding factor. FM-200 is a colourless, liquefied compressed gas. It is stored as a liquid and dispensed into the hazard as a colourless, electrically non-conductive vapour that is clear and does not obscure vision. It leaves no residue and has acceptable toxicity for use in occupied spaces at design concentration. FM-200 does not displace oxygen and therefore is safer for use in occupied spaces without fear of oxygen deprivation.

FM-200 is chosen to protect occupied areas such as computer rooms and the telecommunications market as it out-performs the majority of other gaseous systems in terms of speed of reaction to fire. FM-200 is effective within 10 seconds of initial discharge.

## Benefits and features

- Fast and effective
- No significant reduction in oxygen levels
- Clean gaseous agent leaving no residue
- Zero ozone depleting potential
- Short atmospheric life span
- Electronically non-conductive
- Safe for use in fully occupied areas
- Extensively tested, recognised and approved worldwide

## Telecommunication connectivity

The facility has been designed to provide complete network diversity to avoid any single point of failure. To this end, services are fed into the building from two separate routes. Fibre and connectivity services are fed into the building from two separate routes and Points of Presence (POP's).

The facility is connected to the JT network and as such the complete JT portfolio of connectivity services (both fibre & copper) is available and includes all types of Private Circuits, ADSL services, telephony lines and high-speed, low latency Internet Backbone services.



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### Lightning protection

Soil resistivity testing was conducted as part of the design to establish the most suitable earthing system for the particular ground conditions. The lightning Protection system complies with BS 6651-1999 Protection of structures against lightning and BS 7430 "Earthing".

### Service Level Agreement

A standard Service Level Agreement is included with this service (see JT Colocation Service Level Agreement.)

### Terms & Conditions

The JT Colocation and JT Data Services available at this facility are provided under and subject to, the JT Colocation and JT Data Services Terms & Conditions of Service. Customers are strongly advised to read these Terms & Conditions on our website, before applying for the Service.



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