



VANCOUVER DATA CENTRE

The Vancouver Data Centre is designed to Uptime Institute Tier I standards to provide data centre essentials in a prime location within downtown Vancouver. The facility is in the heart of Vancouver's downtown core. Power is supplied via utility power feed, UPS system, and backup generator to provide power fault tolerance. Cooling and connectivity infrastructure elements are built with N+1 redundancy to provide additional fault tolerance to the system.

The Facility:

Power

Distribution

- 0.6 MW power capacity
- Main power delivered from municipal hydro substations
 - A and B side power available for every cabinet
- 208V Single or 3-Phase, 120V Single Phase available

Generators

- 600kW generator supplying backup power to the facility
- On-site fuel capacity provides >12 hours run time at full load (based on current capacity)

UPS System

- 200kW UPS for A and B side power
- N+1 UPS redundancy

Whitespace & Building

- 6,535 sq. ft. facility
- 3,175 sq. ft. of total whitespace for IT
- Full height loading dock
- Secure room for equipment delivery and storage
- Customer Lounge area

Connectivity

- Carrier-neutral facility
- Fully redundant diverse fibre core fed from multiple providers including:
 - TeraGo
 - Bell
 - Zayo
 - Rogers
 - Telus

Cooling System

Chillers

- Total 90-tonne CRAC units, supporting 320kW IT Load at capacity
- Chilled water loop system with in-row cooling and outdoor chillers
- N+1 Cooling redundancy

Cooling System Design

- Hot aisle containment configuration
- Chilled water system closed loop

Cabinet Space

- Full cabinet includes 42 Rack Units (42U)
- Half and Quarter Cabinets available
- Standard rack PDUs provided; customer supplied PDUs can be supported

Security and Monitoring

- 24/7 video monitoring and surveillance by Network Operations Centre
- Multi-factor access authentication (access card and biometric)

Compliance and Certifications

