



## VANCOUVER VAULT DATA CENTRE

The Vancouver Vault Data Centre is designed to Uptime Institute Tier I standards to provide data centre essentials in a prime location within downtown Vancouver. “The Vault” facility was originally built for the Bank of Canada to protect gold bullion and cash reserves. True to its name, the facility provides the ultimate physical security through its 28” steel-reinforced walls, 1-meter thick ceilings, and 2-meter thick floors. 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

- 1 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

- 560kW UPS for A and B side power
- N+1 UPS redundancy

#### Whitespace & Building

- 6,210 sq. ft. facility
- 4,155 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
  - Shaw
  - 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 48 Rack Units (48U)
- Half 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

