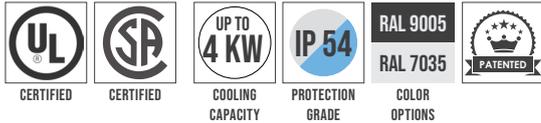


MICRO DATA CENTER SOLUTIONS

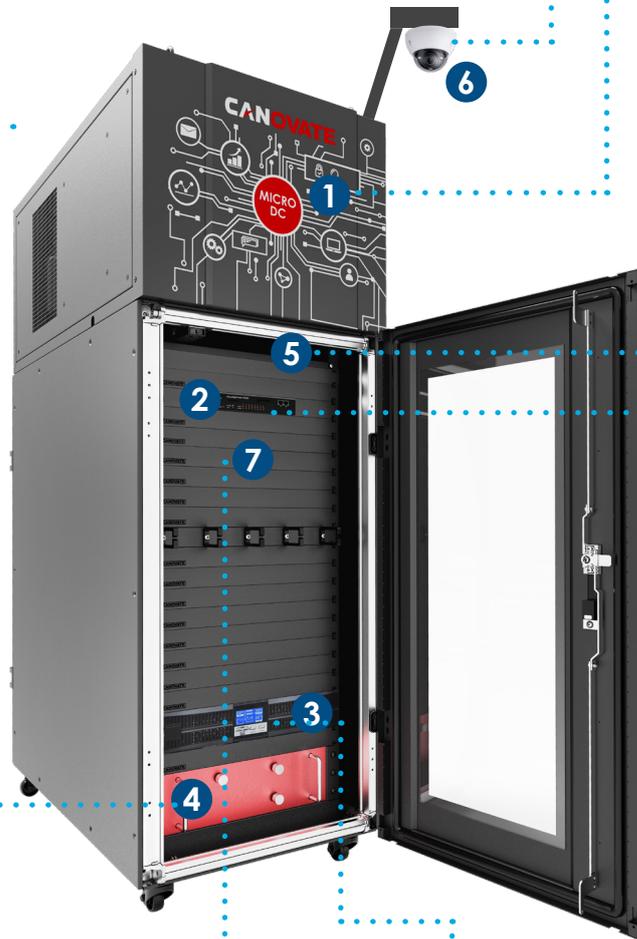


An emerging trend in data center market is Micro DC, which provide cost-effective, energy-efficient data center services with a rapid deployment time frame. Canovate Micro DC solution is an industry leader for efficiency and cost effectiveness. Canovate Micro DC solutions are an integrated solution that incorporates Racks, UPS, Cooling, Fire Suppression, PDU and EMS in a single, compact platform.

Remote monitoring features allow the group headquarters to perform unified management. The Micro DC concept also reduces Cap-Ex dramatically in comparison with traditional brick and mortar DC constructions, and it will enable your current and future customers to access the cloud easily and benefit from a resilient and fully supported infrastructure.



IP-PDU



3U Fire Extinguisher System with FM200 or Novec 1230



Power Distribution Module



1U EMS (Environmental Monitoring Systems)



Camera



AC UNIT (Air Condition Unit)

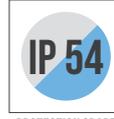
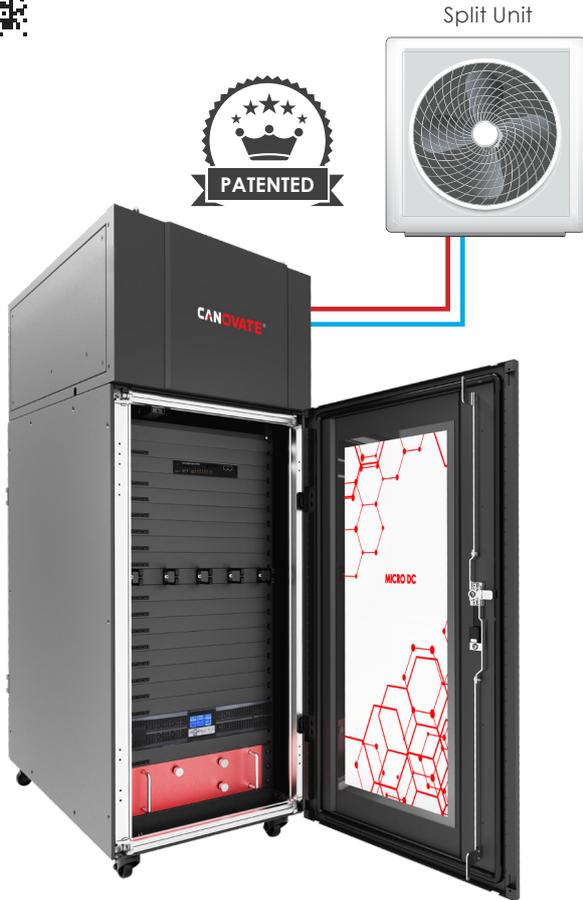


Audible and Visual Alarm



1U EMS (Environmental Monitoring Systems)

- Air Flow Sensor
- Humidity Sensor
- Door Contact
- Liquid Sensor
- Smoke Sensor
- Temperature



COLOR OPTIONS



SPLIT TYPE MICRO DC SOLUTIONS

Canovate Micro DC family makes available "Split Type Micro DC" because of the latest need in the market. Split Micro DC can be located in any room which doesn't have traditional ventilation system.

Consequently, Split Micro DC will not dissipate any heat from condenser by comparing standard Micro DC as Split Type has external outdoor unit of the top cooling system.



REDUNDANT MICRO DC SOLUTIONS

Redundancy is highly needed even for small scale of data center types anymore so that annual downtime can be minimized. In this regard, Canovate® offers an overall compact design for redundancy, even in Micro DC solutions. Canovate® Micro DC can be supported with a dual circuit outdoor unit kit that can operate in extremely harsh conditions.

- 2+2 ve 4+4 kW N+N redundant cooling capacity options
- Redundant outdoor cooling Unit
- Large working interval (-20 °C +55 °C)



HYPER-CONVERGED INFRASTRUCTURE

ENTERPRISE CLOUD COMPUTING PLATFORM BUILT ON BUSINESS-CENTRIC HCI THROUGH MICRO DC



Canovate HCI

- 3rd generation HCI (Hyper-Converged Infrastructure) based on cloud IT architecture.
- Software-defined data center solution by converging compute, storage, networking and security on a single software stack,
- Extremely simplified in architecture, ultimately reliable for business-critical applications and dramatically easy to use in management.

HCI Main Value Summary



Simplified

- Simplified licensing
- Simplified architecture



Flexible

- Compatible with any X86 hardware
- 2 Nodes start up, no licensing different can scale up to 64 Nodes



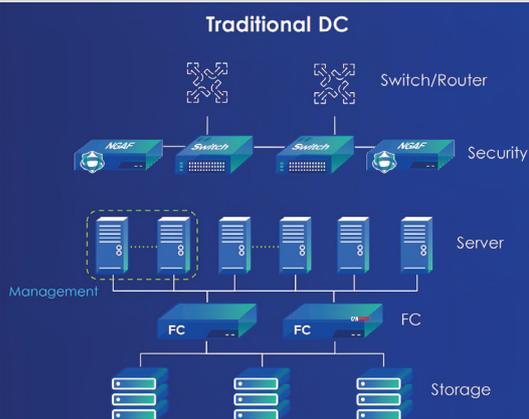
Secured

- Native virtual next generation firewall for L2-L7 protection
- Multiple security module available
- Built in free backup, and license based CDP/DR without 3rd party software



Easy-to-Use

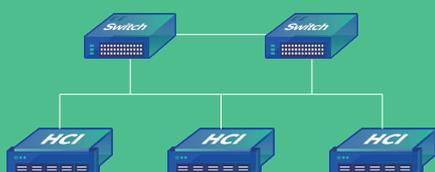
- Virtual topology with real time traffic display
- Drag and draw available to set up topology



Hyper-Converged Infrastructure



HCI-based DC

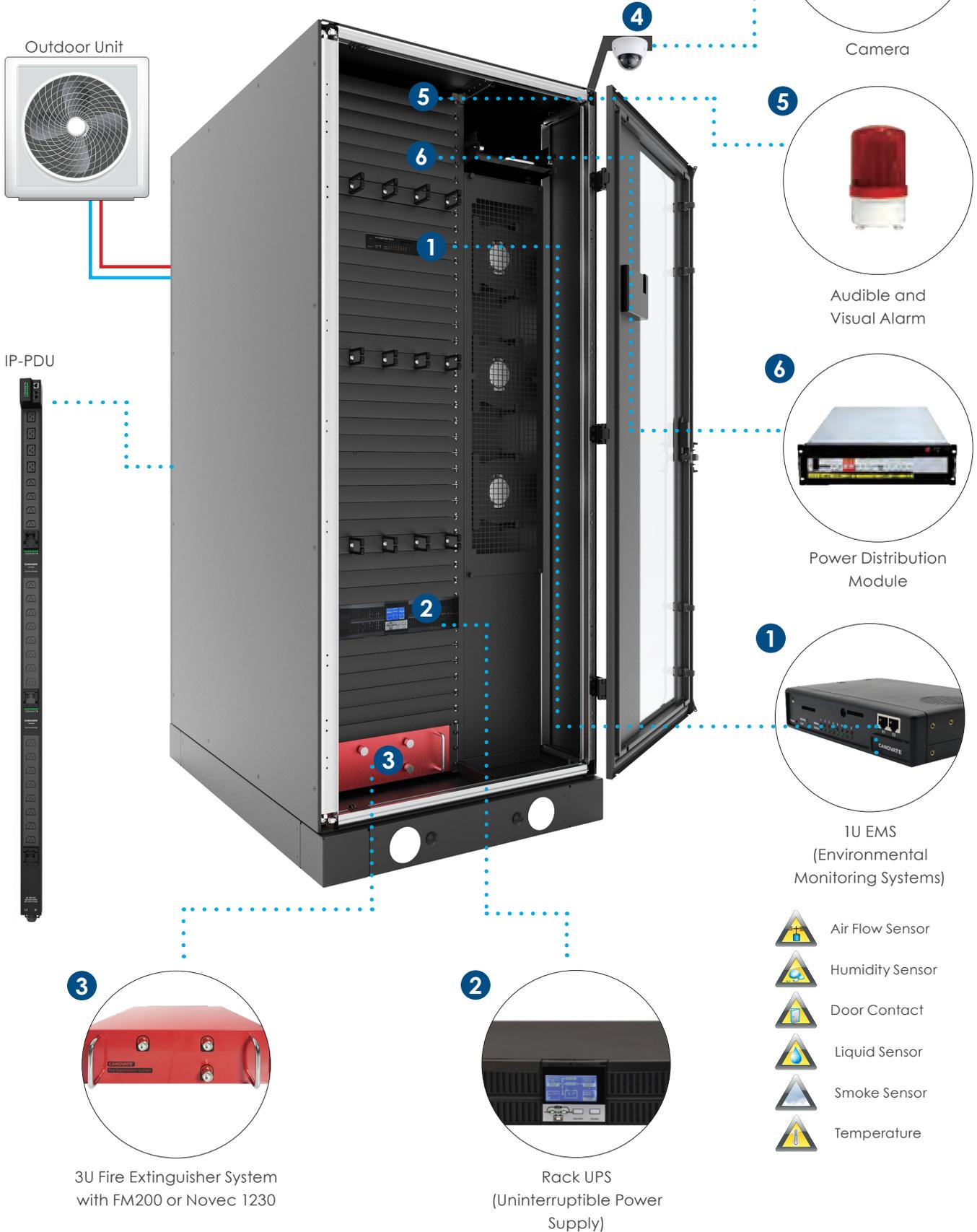


CAN-BREEZE MICRO DATA CENTER SOLUTIONS



CAN-BREEZE in rack cooling system is a direct-cooled server cabinet consisting of a lateral cooling device as an indoor unit and an AC outdoor unit. The cooling system provides energy efficient cooling by latest inverter technology.

The rack with side cooling has close loop system, thus, there is no air leakage between internal air and room air. The noise level is due to the extremely quiet internal side cooling unit is very low and it is only about 55 dB(A). The cooling capacity of in-rack side cooler is available in range between 3,2kW and 14 kW.

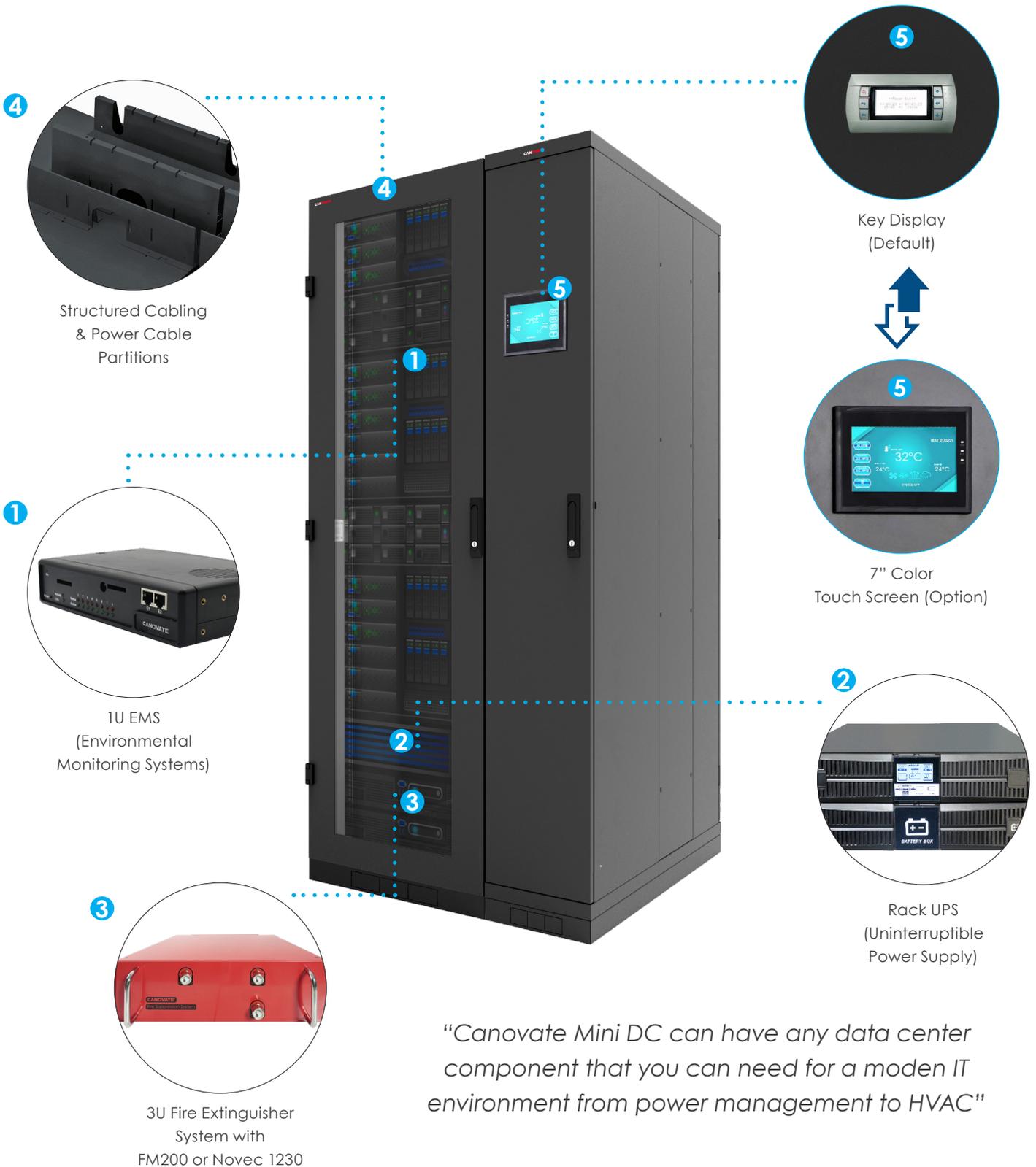


MINI DATA CENTER SOLUTIONS



Canovate's Mini Data Center is a modular server rack that allow organizations to meet their networking needs while controlling both capital and operational expenditures. As standalone units, they are suitable for hospital clinics, disaster recovery operations, field or branch offices, or any other site that needs cutting-edge data center solutions but may not have on-site IT personnel.

Mini Data Centers can also be scaled up to hundreds of racks. This scalability makes them the perfect solution for established organizations that have seen a period of growth and need to expand, as well as start-ups that need to control their expenditures now, but also need the flexibility to grow rapidly later.



MAXI DATA CENTER SOLUTIONS



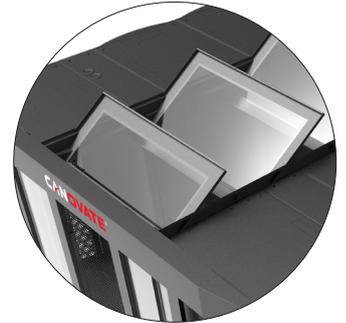
Precision Inrow AC Systems (DX/CW)



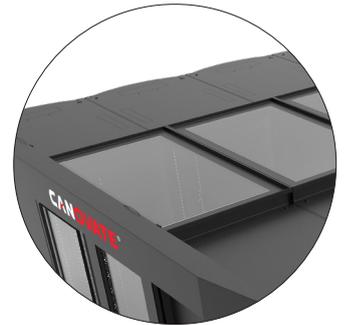
Precision AC (In-room) Systems (DX/CW)



Indirect Adiabatic Systems



Pivot Ceiling System



Fixed Ceiling System



Automatic Opening Door System



Manual Sliding Door System



Standard (Key Display)



Face Recognition Device (Optional)



12" Color Touch Screen (Optional)

Commonly used components:

- Manual, or automatic sliding doors allow highly light transparency
- Various access controllers which are card reader, keypad, or fingerprint
 - Fixed, or pivot type top cover elements
 - Touchscreen display for local monitoring

MOBILE CONTAINER

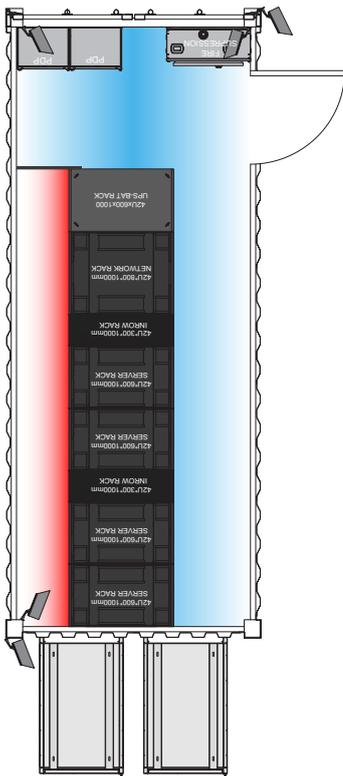
DATA CENTER SOLUTIONS



The mobile container data center provides a protected housing for the server cabinets, power distribution system, high precision air conditioning system, UPS system with backup banks, monitoring system, fire control system, and CCTV system.

The container data center provides the following functions:

- Houses the container components which can be interconnected inside in a centralized manner.
- Provides a secured environment to protect the container from external impact
- Modularity based on future expansion and capacity extension
- Quick deployment advantage against traditional building data center
- As pre-assembled, configured and factory tested solution before delivery



Canovate Mobile Data Center Series				
	20 FT LENGTH	40 FT LENGTH	45 FT LENGTH	2 X 45 FT LENGTH
Dimensions	6058*2438*2591mm	12192*2438*2896mm	13716*2438*2896mm	13716*4876*2896mm
Rack Cabinets	5	10	12	26
Cooling Redundancy	N+1	N+1	N+1	N+1
Power Redundancy	2N	2N	2N	2N
IT Load Limit	30kW	90kW	120	210

MOBILE CONTAINER DATA CENTER

COMPONENTS

Modular UPS



Movable Cable Duct



Modular Fire Suppression Systems



19" Rack Cabinet



Power Distribution Panel



Outdoor Cooling Unit



Inrow Cooling

