MINI DATA CENTER SOLUTIONS

MINI DATA CENTER

IT RACK WITH INTEGRATED SIDE COOLER (DX OR CW BASED)

UL CERTIFIED	CSA CERTIFIED	UP TO 52 KW COOLING CAPACITY	IP 54 PROTECTION GRADE	RAL 9005 / RAL 7035 COLOR OPTIONS
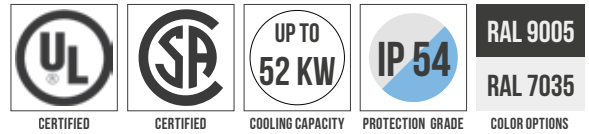
Canovate's Mini Data Center is a modular server rack that allow organizations to meet their networking needs while controlling both capital and operational expenditures. As standalone units, they are suitable for hospital clinics, disaster recovery operations, field or branch offices, or any other site 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.

Our Mini Data Centers can be deployed in 4-6 weeks from the design stage to the go-live date. They are fully turn-key telecommunications solutions; as much of their infrastructure as possible – including cooling, power management and protection, and security and monitoring – is built into the design.

	Side Cooler			
Cooling Capacity	10 kW	16 kW	32 kW	52 kW
Rack Height	42U/47U			
Rack Depth (mm)	1000/1200			
Rack Width (mm)	300			600

Highlights:

- Integrated monitoring system
- Install Data Center where you want and need it
- Rapid deployment in 4-6 weeks from plan to start-up
- Low total cost of ownership
- Up to 50% less space required
- No raised floor required
- Full turnkey Data Center including cooling, structured cabling, monitoring, power management and protection
- Standalone Data Center
- Individual rack cooling up to 52 kW
- High level security within rack fire protection and monitoring systems
- Advanced power management with IP PDU and UPS systems
- Internal redundancy achieved by using 3x fan.
- External redundancy achieved by using N+1 side coolers
- Structured cabling solutions with overhead cable channels
- Access Control options with either keypad, RFID card reader or fingerprint reader to open the cabinet doors

OR
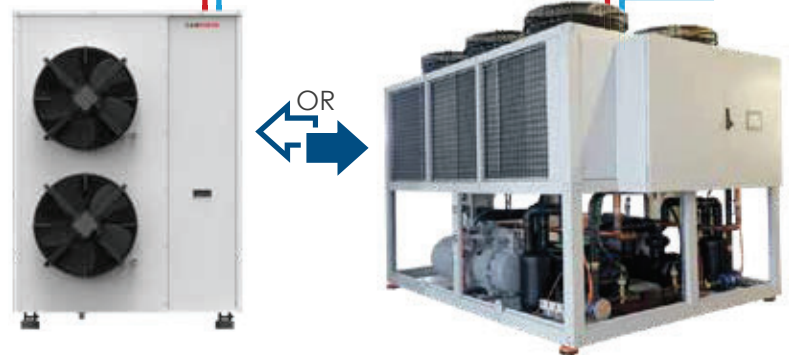
Applications:

- High density servers exceeding 10 kW Mobile Containers/Shelters
- Branch Offices
- Disaster recovery operations
- Small clinics/hospitals
- Warehouses
- Remote installations
- Temporary installation
- Mobile applications

COMPONENTS OF MINI DATA CENTER

5

5

4

Key Display
(Default)

7" Color
Touch Screen (Option)

Structured Cabling
& Power Cable
Partitions

4

5

1

1

1U EMS
(Environmental
Monitoring System)

2

2

Rack UPS
(Uninterruptible
Power Supply)

3

3

"Canovate Mini DC can have any data center component that you can need for a modern IT environment from power management to HVAC"

3U Fire Extinguisher
System with
FM200 or Novec 1230

MINI DATA CENTER
AIR CIRCULATION

Cold & Hot Air Circulation

While Canovate Mini DC meets effective air-conditioning need for medium-sized integrated data centers in the market, cooling performance has also been one of the most important design criteria.

The side cooling unit has to include air deflectors so that air-circulation should be effectively carried out. In addition, the cabinet has air way gap on the front and rear of the side panels.
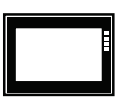
On the other hand, all unused U spaces are closed by blank panels, and vertical blanking panels cover the gap between 19" mounting rail and side panel. As a result, while the cold air directly goes to the active devices, the hot air is gathered straightly and goes to the suction area of the cooler.

Product Features

High Performance	Compact Design	Easy Maintenance	High Efficiency	Modular Structure	Intelligent Control Mechanism	Environmentally Friendly	Precision Temperature Control	EC Fan Technology

Optional Accessories

| 7" Color Touch Screen	Humidifier	Dehumidifier	Remote Access	Energy Analyser	Drying

BEST-SELLER MINI DC CONFIGURATIONS

Here are some of the best-selling Mini DC (Data Center) configurations with various cabinet and air conditioning combinations.

In addition to these configurations, it is possible to deploy Mini DC setups with redundant air conditioning units and power infrastructure. For instance, a 6-to-8 rack Mini DC can incorporate multiple air conditioning units for cooling redundancy, ensuring uninterrupted operation in case of a failure. Similarly, redundant power infrastructure, such as dual power feeds and backup generators, can be implemented to enhance reliability and minimize downtime.

| Canovate Best-Seller Mini Data Center Configurations					
	Configurations	1*C+1*AC	2*C+1*AC	3*C+2*AC	4*C+2*AC
Rack Cabinet System	"Dimensions W*D*H (mm)"	1100*1200*2040	1700*1200*2040	2600*1200*2040	3200*4876*2896
	Environmental Protection	IP54 (dust protected, splashing liquid protection) as default			
	Material	Aluminum chassis, steel components			
	"IT Rack Sizes W*D*H (mm)"	600*1200*2040 (Server Rack) + 800*1200*2040 (Network Rack)			
	Quantity of Racks	1	2	3	4
	Total IT Load (kW)	9	15	15	30
Air Conditioning System	Cooling Type	DX Based Inrow Cooling Units			
	Inrow Cooling Unit Quantity	1	1	2	2
	Redundancy Level	N		N+1	

2 RACK + 1 AC
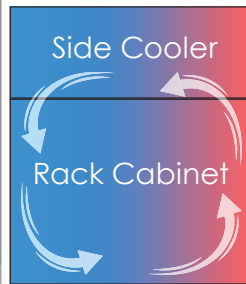
15kW IT Load Limit
Power Redundancy: 2N
AC Redundancy Level: N
16kW DX Side Cooler (1 pcs)
42U Rack Cabinet (2 pcs)

TOP VIEW

Side Cooler
Rack Cabinet
Rack Cabinet
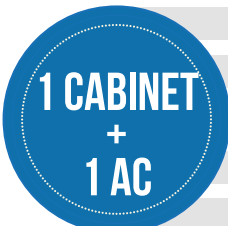
TOP VIEW

Side Cooler
Rack Cabinet
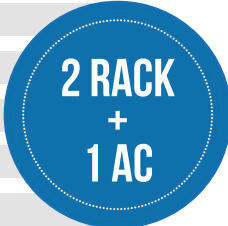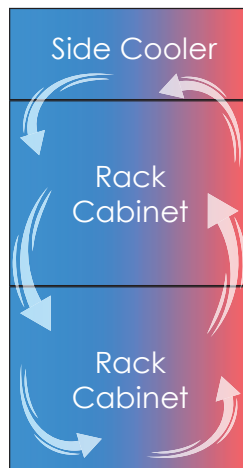
1 CABINET + 1 AC

42U Rack Cabinet (1 pcs)
10kW DX Side Cooler (1 pcs)
AC Redundancy Level: N
Power Redundancy: 2N
9kW IT Load Limit

TOP VIEW

Rack Cabinet
Side Cooler
Rack Cabinet
Side Cooler
Rack Cabinet

3 CABINET + 2 AC

15kW IT Load Limit
Power Redundancy: 2N
AC Redundancy Level: N+1
16kW DX Side Cooler (2 pcs)
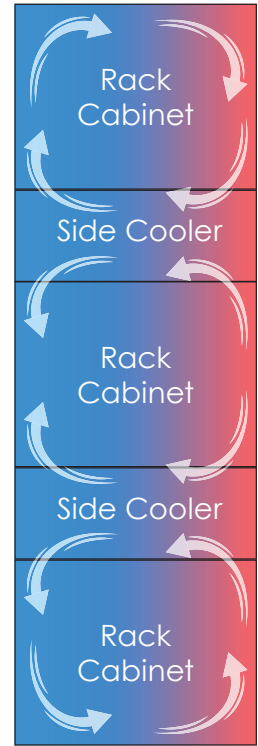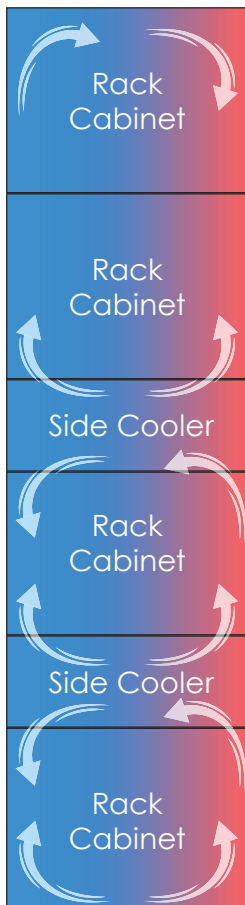42U Rack Cabinet (3 pcs)

TOP VIEW

Rack Cabinet
Rack Cabinet
Side Cooler
Rack Cabinet
Side Cooler
Rack Cabinet

42U Rack Cabinet (4 pcs)
32kW DX Side Cooler (2 pcs)
AC Redundancy Level: N+1
Power Redundancy: 2N
30kW IT Load Limit

4 CABINET + 2 AC

Factory

University

Hospital

SME

Small and Medium
Size Enterprises (SME's)

Exchange offices
& Hubs of Telco's
and GSM
companies

Warehouse

Branch offices of government
institutions and utilities

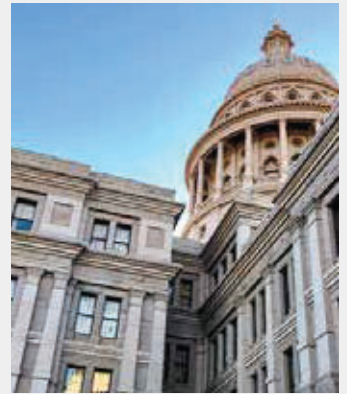# APPLICATION AREAS

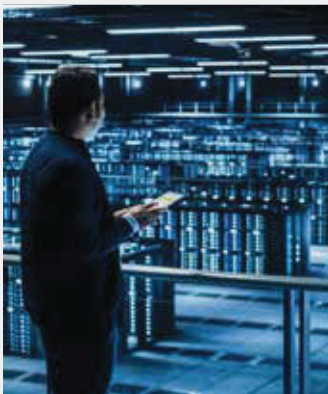

Small and Medium Size
Enterprises (SME's)

Branch offices of financial
institutions (Banks, Insurance
companies)

Instant data center

Branch offices of government
institutions and utilities (Police,
Army, Schools, Electricity,
Water companies etc)

Companies who wants to
connect the cloud instead of
investing in a big data center

Exchange offices & Hubs of
Telco's and GSM companies

Remote locations where there
is no available dedicated IT
personnel

Manufacturing companies
for automation control and IT
services

Disaster recovery