MICRO DATA CENTER
MODULAR CONTAINERS

Brochure

ADVANTAGES OF MODULAR DATA CENTERS
Key Benefits

Lowest Total Cost of Ownership
Lower investment than traditional data center construction

Universal Deployment
Ruggedized design suitable for all environments and applications
(Outdoor, rooftops, warehouses, oil rigs, remote sites)

Rapid Deployment
Construct, deliver and commission data center 12 weeks from order
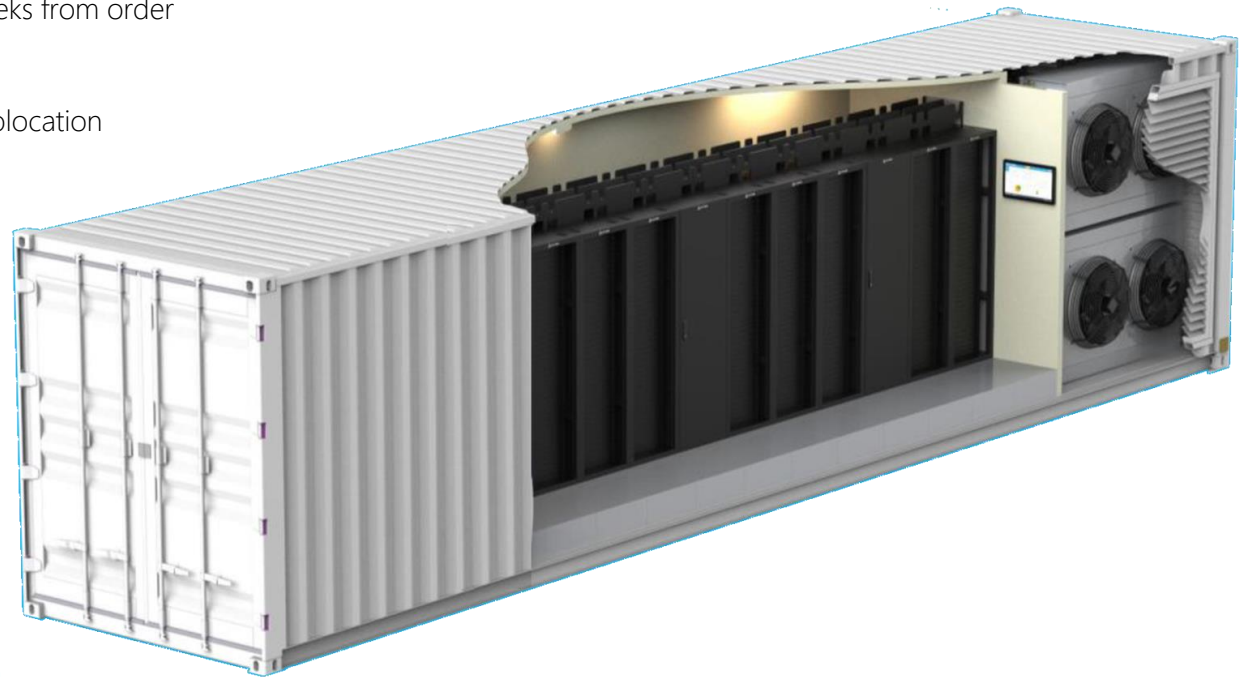
Scalable
Product range from single MDC to enterprise class colocation

In-House Design and Fabrication
Experienced engineering and design team

Pre-Engineering and Testing
Pre-fabrication with quality

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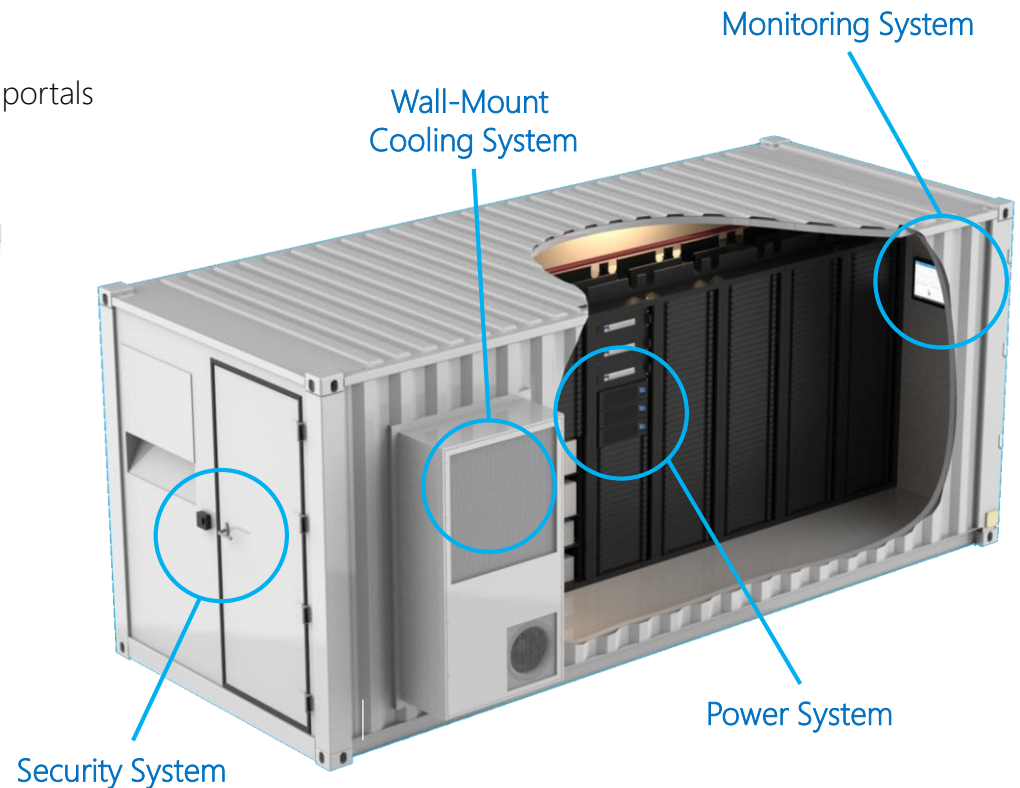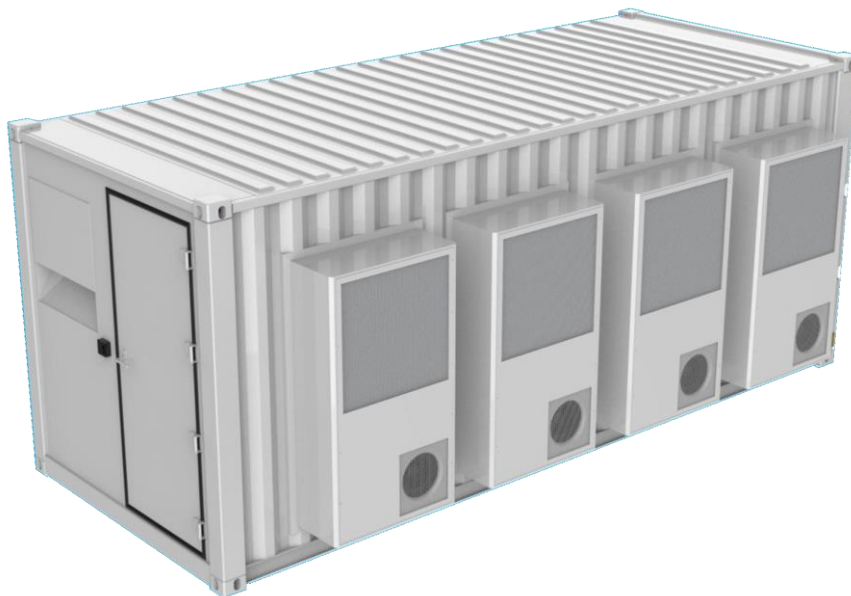## Key Elements

Greater Capacity
Maximum rack mounting capacity with innovative design

Higher Cooling Efficiency
Packaged cooling system & cold/hot air management

Standardized Management
Configurable modules and remote monitoring & management portals

Monitoring System

Wall-Mount Cooling System

Power System

Security System

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Power and Cooling Systems

Power System Overview

Converged Power Solution
compact cabinet saving space and reducing complexity

UPS AC Power System
High frequency rackmount UPS

Optional DC Power System
48V DC for communication equipment

Power Distribution
Pre-configured, no onsite installation

Power Monitoring
Continuously monitors the power condition, usage and integrates into higher level monitoring system.

Cooling System Overview

Packaged Cooling
Indoor and outdoor packaged saving space

High Ambient Temperature
Up to 55°C

Intelligent Management
Smart sensors and Web/SNMP/RS485 monitoring

High Efficiency
EC fan and CFD for cold/hot air management

Free Cooling Option
Direct or indirect cooling to lower PUE

Environmentally Friendly Refrigerant
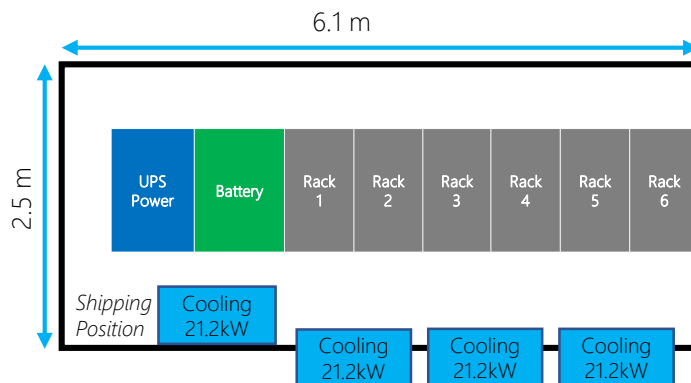R134a refrigerant

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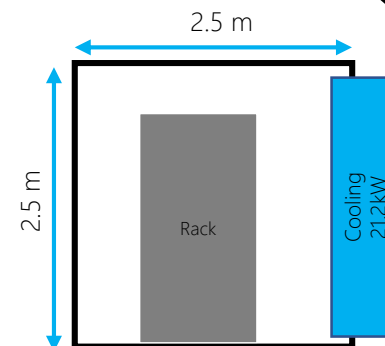## Technical Specifications

Parameter	Specification
Container Size (ft)	10, 20 or 40
Dimension Standard	ISO 668
Service Life	> 10 Years
Protection Level	IP55
Salt Spray Test	750h
Fire Resistance	UL 120 min
Thermal Insulation	Co-efficient < 0.4W/(m²*k)
Wind Resistance	Withstand > 30 m/s
Seismic Performance	NEBS Zone 3
Op. Temperature	$-40^0C \sim 55^0C$
UPS Power Range (AC)	3k – 40kVA
UPS Power Range (DC)	10 – 60A
PDU	Basic or Intelligent
Rack Width (mm)	600, 800mmW
Rack Height	42U, 45U, 48U
Rack Depth (mm)	800, 1000, 1100, 1200
Packaged Cooling	3k – 21kW
In-Row Cooling	5k – 40kW
Cooling Types	DX / CW

20' Container Data Center Layout (Top View)

6.1 m

2.5 m

UPS Power | Battery | Rack 1 | Rack 2 | Rack 3 | Rack 4 | Rack 5 | Rack 6

Shipping Position Cooling 21.2kW

Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW

Rear View

2.5 m

2.5 m

Rack | Cooling 21.2kW

40' Container Data Center Layout (Top View)

12.2 m

2.5 m

UPS Power | Battery | Rack 1 | Rack 2 | Rack 3 | Rack 4 | Rack 5 | Rack 6 | Rack 7 | Rack 8 | Rack 9 | Rack 10 | Rack 11 | Rack 12 | Rack 13 | Rack 14 | Rack 15 | Rack 16

Shipping Position Cooling 21.2kW

Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW | Cooling 21.2kW
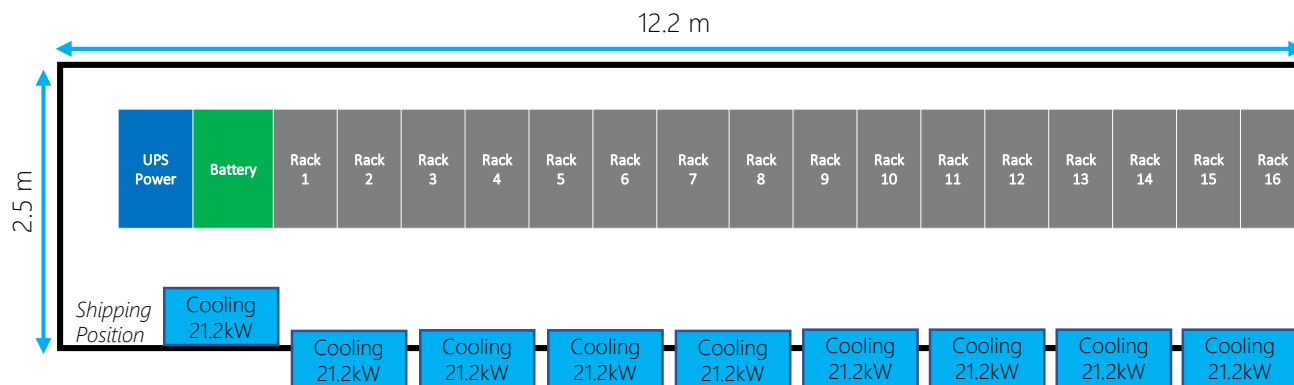
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System Options

Intelligent PDU's

1U and 0U Managed Models
Remote monitoring and device reboot, eliminating on-site service for system check.

Video Camera

NVR and IP Camera
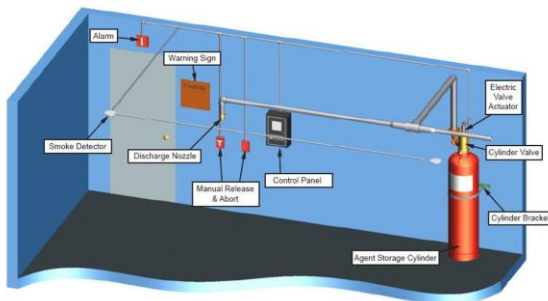High definition monitoring and recording ideal for remote system monitoring and security.

Smoke Detection Alarm

Proactive detection technology
4-level fire alarms, 4-level flow alarms
Built-in LCD display fire alarm

Fire Extinguisher System

FM200 fire gas
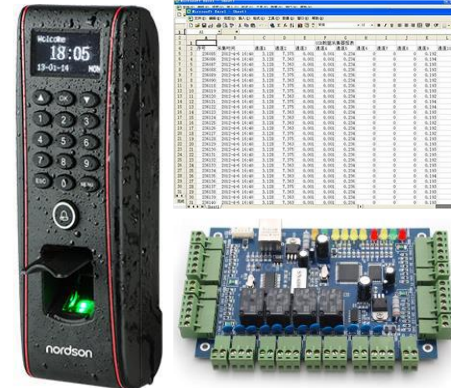Fire control panel with smoke and temperature sensors. Fire distribution piping network

Centralized & Local Monitoring Systems

Automatic Operation
Manages all the key elements and is accessible via web portal and SMS alarms.

Electronic Door Locking System

RFID, Fingerprint and Access Card
Electronic access for greater system security. Ideal for areas with employee access.

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ArcTiv Technologies, LLC
30 N Gould St Ste R,
Sheridan , WY 82801

sales@arctiv-tech.com
www.arctiv-tech.com