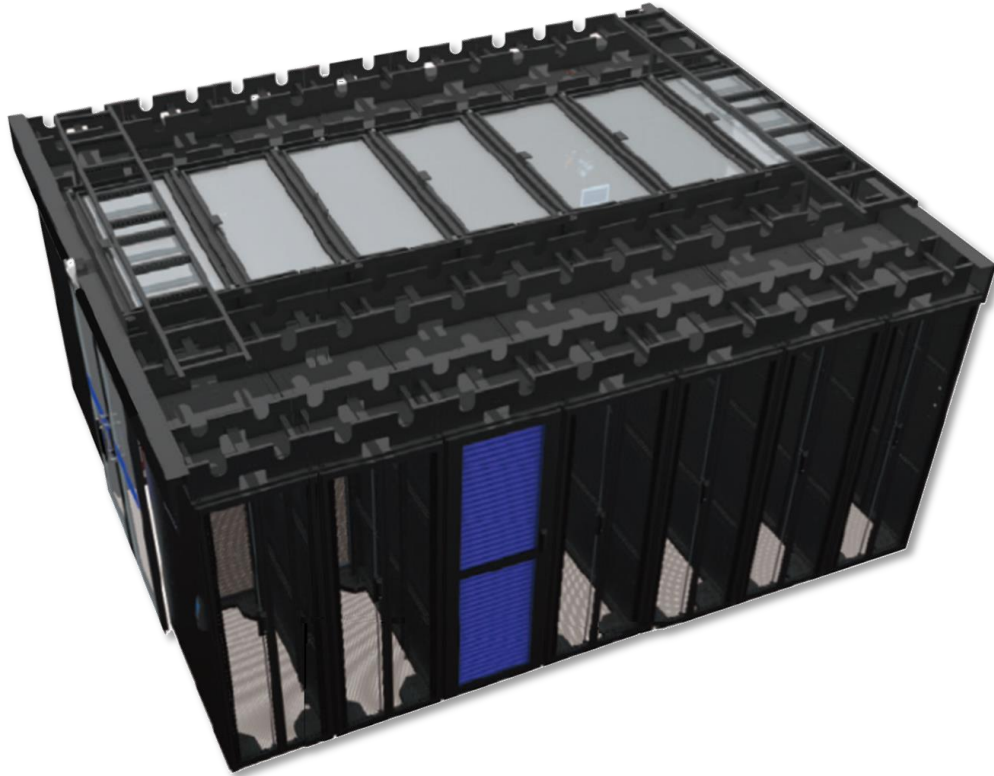


ARCTIV MICRO DATA CENTER AISLE SYSTEM

PRODUCT OVERVIEW

ArcTiv Micro Data Center Aisle System

PRODUCT LINE OVERVIEW



The [ArcTiv Micro Data Center Aisle Containment System](#) is designed for indoor applications where building modification is restricted. The bespoke system is ideal for edge-computing applications, providing monitoring and management of power, cooling and environmental systems.



Beautiful Appearance

Tempered glass containment doors and optional LED lighting suitable for enterprise and commercial buildings



Greater Reliability

N+1 power and cooling redundancy with built-in smoke, water, temperature and humidity monitoring and alerts.



Remote Monitoring

Real-time monitor system environment, PUE and set-up alerts via email or LINE mobile app



Modular Design

Scalable power, rack and cooling for future expansion to minimize initial investment costs.



Cable Management

Supports edge servers with in-rack vertical cable management and top-rack accessories.



High-Capacity

In-row cooling systems support up to 25.5kw per module with outdoor cooling to minimize noise



Automatic Operation

Automatic containment doors and top panels can sync with building fire detection and suppression systems.



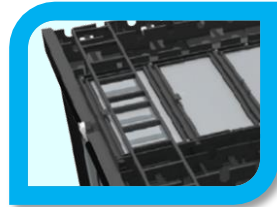
Security

Locking containment and rack doors with electronic access control (RFID, PIN & fingerprint options)

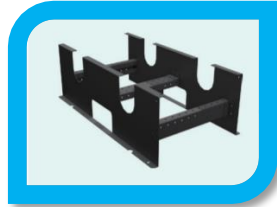
Complete Power, Rack, Cooling and Environmental Management Solutions for Edge-Data Centers

ArcTiv Micro Data Center Aisle System

SYSTEM COMPONENTS



Ladder Rail
Overhead Cable Management



Cable Management
Overhead and In-Rack Power & Network Cable Isolation



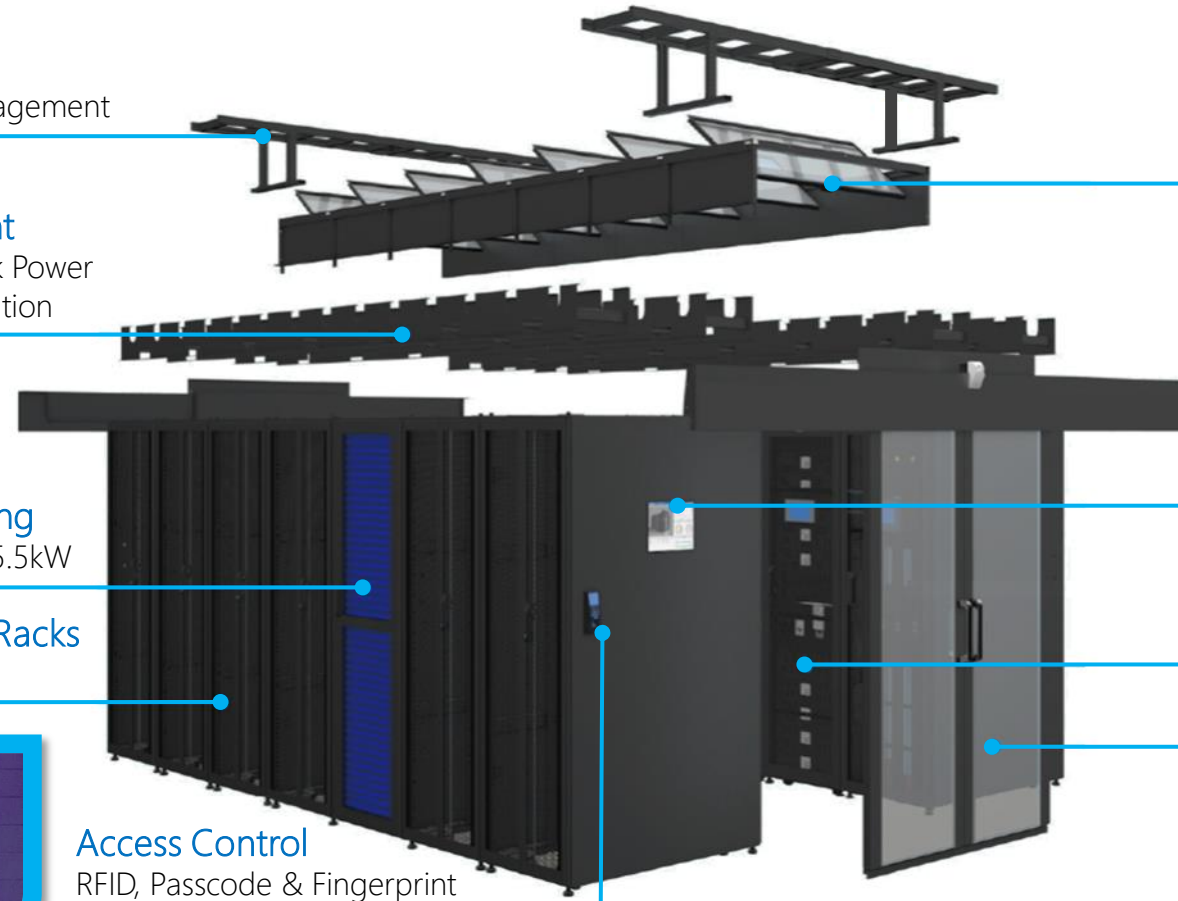
Precision Air Cooling
In-Row Type, Up to 25.5kW



Server & Network Racks
1800kg Load Rating



Access Control
RFID, Passcode & Fingerprint



Skylight
Tempered Glass with Automatic Operation



DCIM
Built-in Controller, Sensors & HMI



Power Distribution
Intelligent PDM, PDU's & Surge Protection



Aisle Containment
Tempered Glass with Automatic Operation

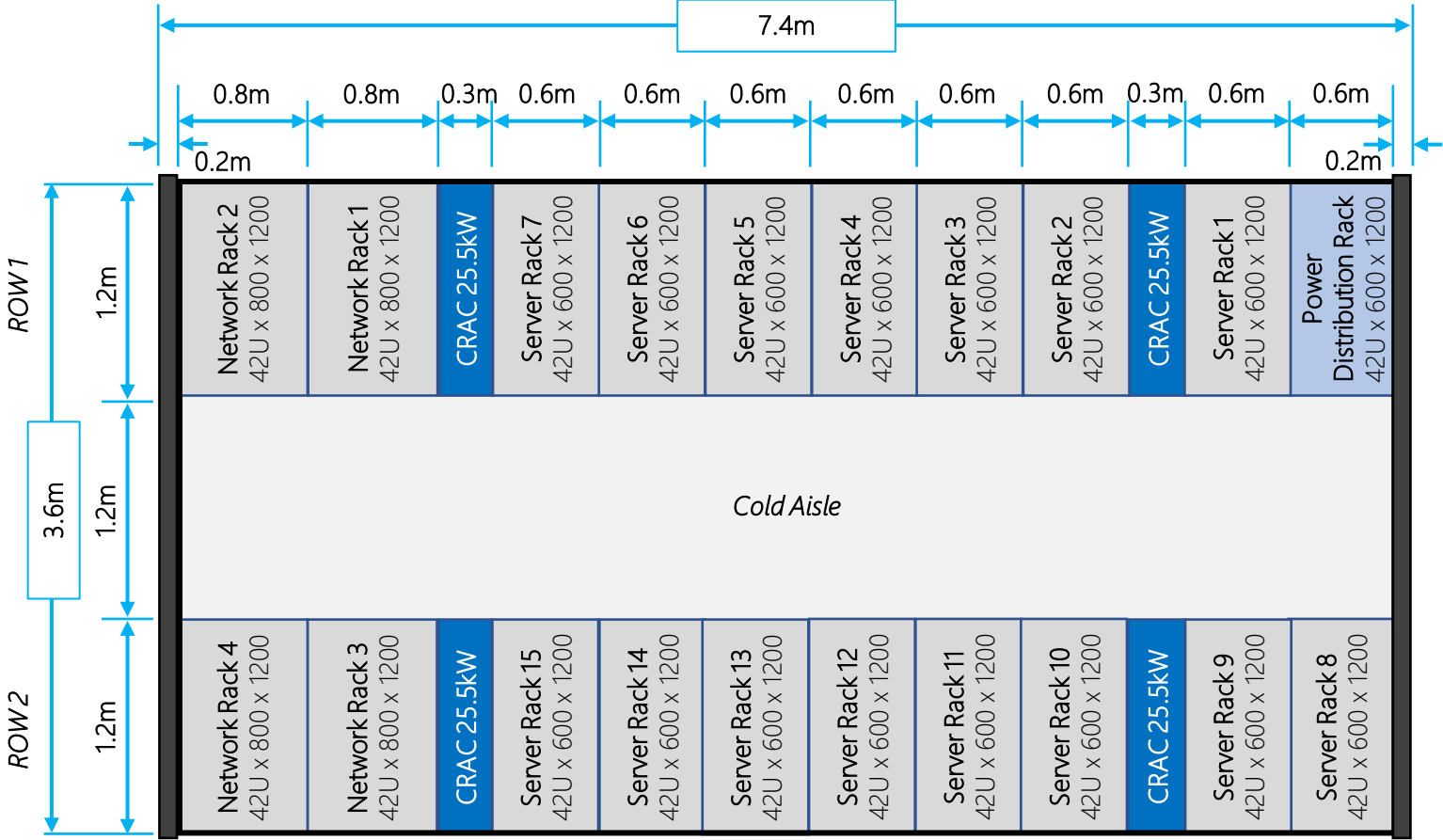


Customizable Containment System can be Constructed in Commercial Buildings with Minimal Building Modification



ArcTiv Micro Data Center Aisle System

TOP VIEW



Cold-Aisle Containment System With N+1 Cooling Redundancy



Rack & In-Row Cooling Layout

BAYED RACKS AND COOLING



Network Rack
42Ux800x1200

Network Rack
42Ux800x1200

CRAC
25.5
kW

Server Rack
42Ux600x1200

Server Rack
42Ux600x1200

Server Rack
42Ux600x1200

Server Rack
42Ux600x1200

Server Rack
42Ux600x1200

Server Rack
42Ux600x1200

CRAC
25.5
kW

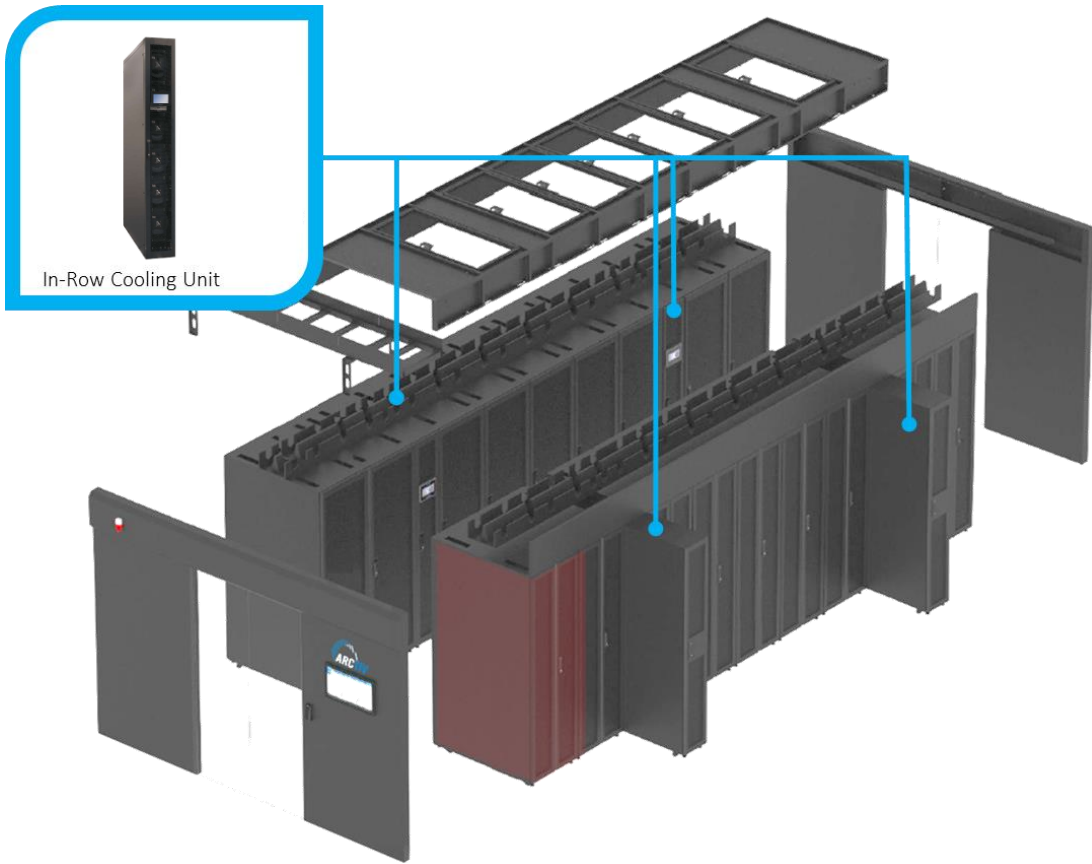
Server Rack
42Ux600x1200

Power
Distribution Rack
42Ux600x1200

Seamless Integration of Server & Network Racks with In-Row Cooling for Current Use and Future Expansion

ArcTiv In-Row Cooling System

SYSTEM LAYOUT & DIMENSIONS



In-Row Cooling Unit

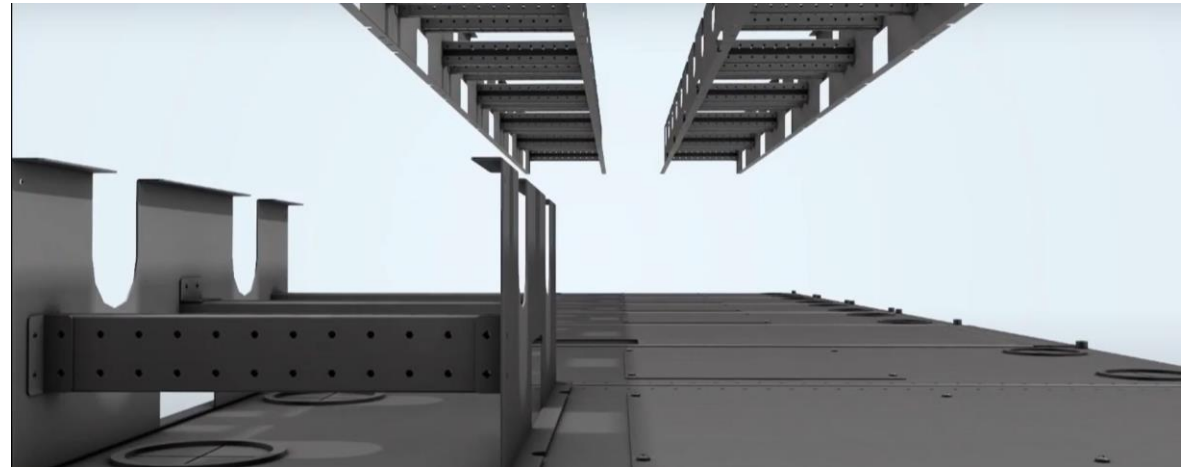
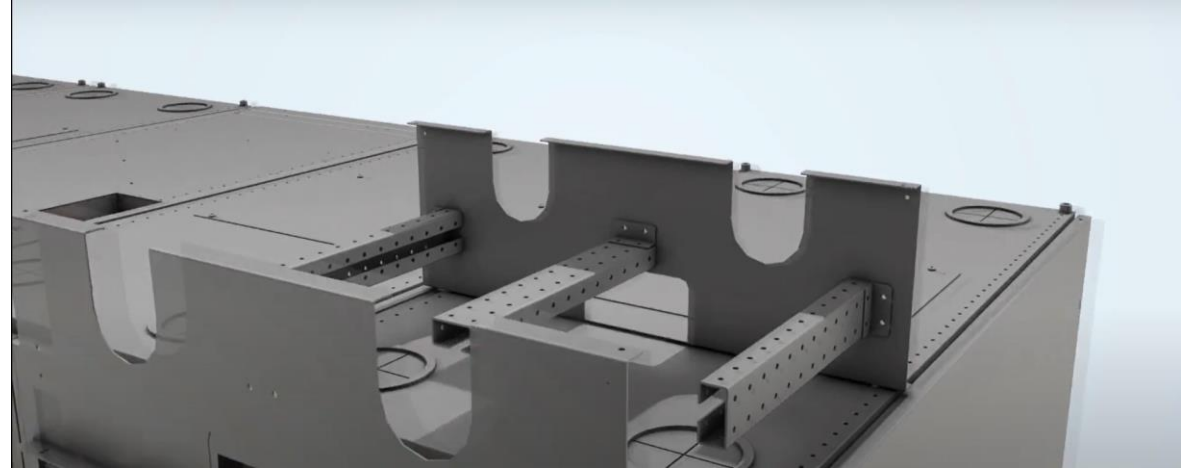
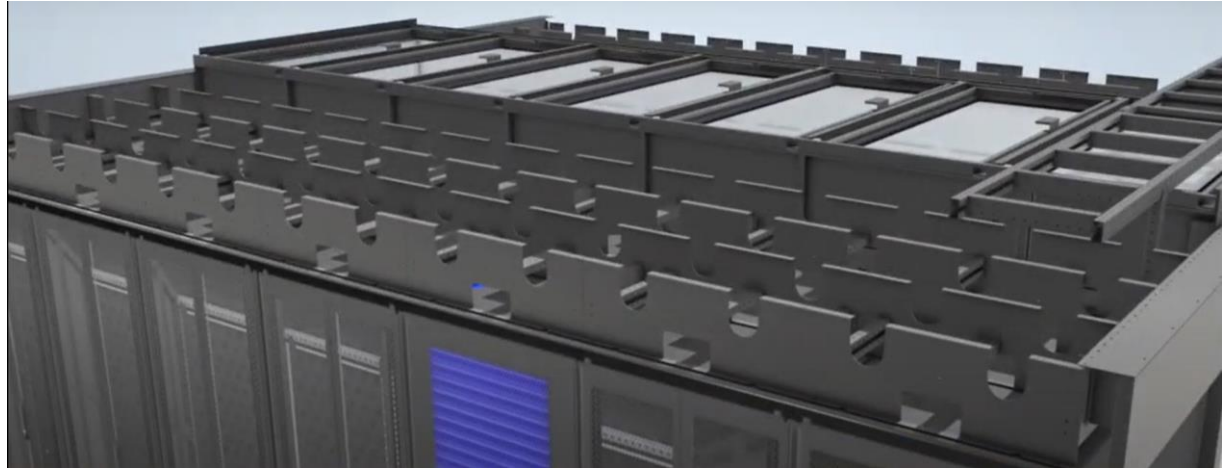


In-Row Cooling Unit	Spec
Total Cooling Capacity	25.5kW
Air Volume	5050 m ³ / h
Heating Power (Optional)	3kW
Humidification (Optional)	3kg / h
Voltage	380 / 400V
Frequency	50 / 60Hz
Phase	3-Phase
Full Load Current (Constant Temp & Humid)	27.3A
Full Load Current (Constant Temp)	22.7A
Weight	237kg
Width (W)	300mm
Depth (D)	1200mm
Height (H)	2000mm
Outdoor Unit	Spec
Voltage	380 / 400V
Frequency	50 / 60Hz
Phase	3-Phase
Full Load Current	2.5A
Weight	120kg
Length	1380mm
Width	975mm
Height	700mm
Tripod Height	455mm

25.5kW In-Row Cooling Unit Fits Seamlessly with the Server and Network Racks

Top Cable Management System

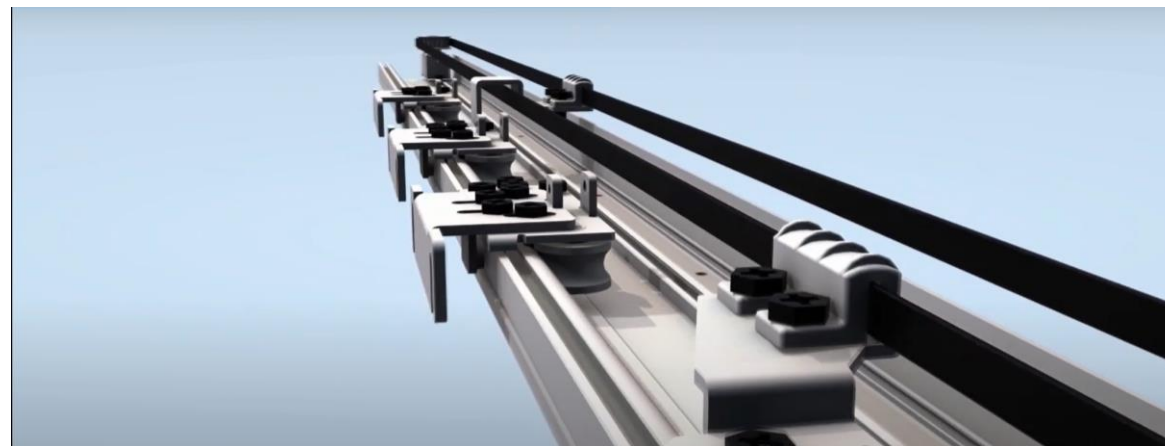
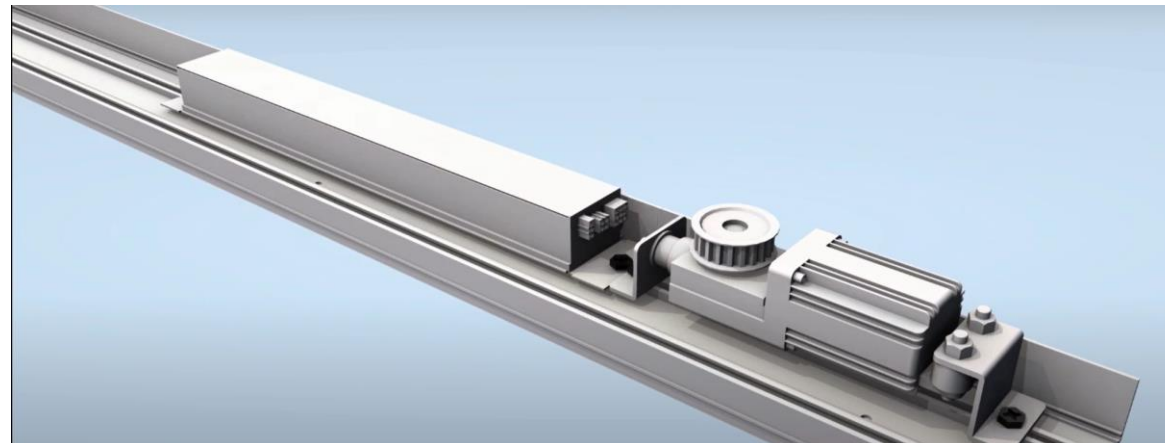
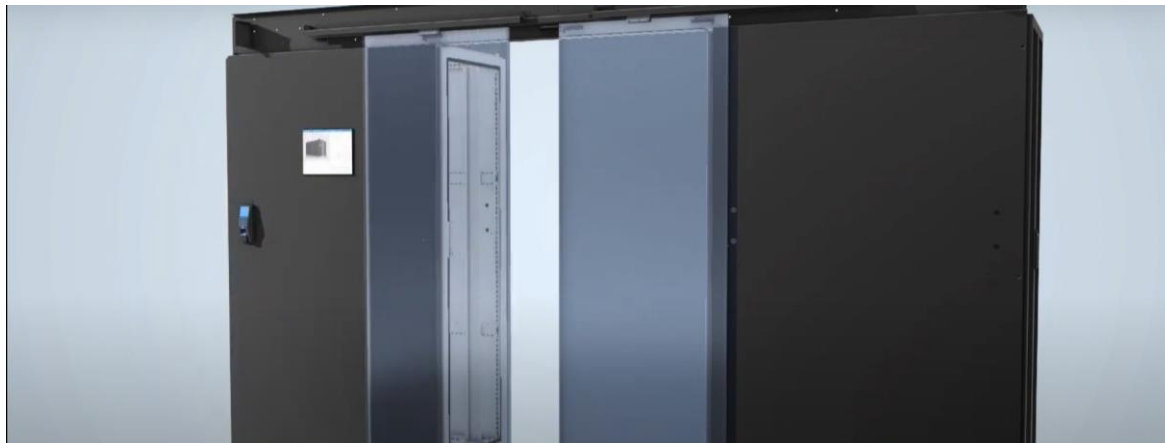
HIGH AND LOW VOLTAGE ISOLATION



High Capacity Built-In Cable Management to Route and Isolate Power & Network Cabling

Automatic Aisle Containment System

INSTALLATION AND OPERATION













Automatic Door Operation with Tempered Glass and Access Control System

DCIM & Monitoring System

OVERVIEW



Environmental Monitoring System, 1U

Power Monitoring			Environmental Monitoring				DCIM Access		
									
Power Distribution	Intelligent PDU	UPS & Battery (Optional)	Precision A/C	T&H Sensor	Door Sensor	Water Sensor	Smoke Sensor	HMI	PC Terminal
<ul style="list-style-type: none"> Input Power Monitoring (PUE) Rack & Outlet Power Management 			<ul style="list-style-type: none"> System Temp & Humidity, Water Leakage, Smoke & Door Emergency Door / Skylight Operation 				<ul style="list-style-type: none"> Remote Access, Alerts & Logs Onsite Navigation and Security Systems 		

Built-In DCIM Provides On-Rack and Remote Monitoring of Power, Cooling and Environmental Monitoring Systems

Intelligent Power Distribution System

PRODUCT OVERVIEW

Intelligent Power Distribution Units



Function	Metered Outlet	Managed
Input Monitoring (V, A, P, E, PF)	•	•
Environmental Monitoring (Temp, Humid, Dry Contact)	•	•
Alarms User-defined thresholds	•	•
Outlet Metering (V, A, P, Thresholds, Grouping)	•	•
Integrated DCIM Monitoring Outlet Status & Metering	•	•
On/Off Outlet Control Group Management		•

Intelligent Power Cabinet



Product Highlights

42U Cabinet which seamlessly fits with server racks and aisle containment system

Surge protection and international certified circuit breakers

Integrated into the MDC DCIM system for real-time PUE analysis and alerts

High-Power 3-Phase input compatible with 3rd-party UPS brands

Dedicated 1-Phase Outputs compatible with Intelligent Power Distribution Units

Intelligent Rack-Level Power Distribution with Full DCIM Integration



Power



Protect



Cool



Connect

ArcTiv Technologies is a global technology vendor whose mission is to **Power, Protect, Cool and Connect** your data center and edge-computing network infrastructure.

USA Address:

ArcTiv Technologies, LLC
30 N Gould St Ste 22117,
Sheridan, WY 82801
USA
e: sales@arctiv-tech.com

Taiwan Address:

ArcTiv Technologies, Ltd.
4F., No. 12, Ln. 345, Yangguang St.,
Neihu Dist., Taipei City 114 ,
Taiwan (R.O.C.)
e: james.chien@arctiv-tech.com

Bangladesh Address:

ArcTiv Technologies, Ltd.
Plot-155/1, 156, Road No. 1, Block-A,
Section-12, Pallabi, Dhaka, PO: 1216
Bangladesh
e: iftekhar.priyom@arctiv-tech.com

© 2021 ArcTiv Technologies, LLC. All rights reserved. ArcTiv and the ArcTiv logo are trademarks or registered trademarks of ArcTiv Technologies, LLC. While every precaution has been taken to ensure accuracy and completeness herein, ArcTiv Technologies LLC assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

www.arctiv-tech.com

Copyright © 2021 All Rights Reserved