

# NORDEN AISLE CONTAINMENT CABINET



Norden Aisle containment cabinets are designed to improve the efficiency of data centres by isolating hot and cold airflow, ensuring optimal cooling and energy management. These cabinets support the organization and management of IT equipment while enhancing system performance and reliability. Norden Aisle Containment Cabinet features a modular, prefabricated design that combines power supply, UPS, precision cooling, cabinets, closed channels, and dynamic environmental monitoring systems into a single integrated solution. It is equipped with numerous sampling sensors for real-time, unified monitoring and management, enabling automated control and intelligent operation and maintenance. This enhances the reliability, availability, and maintainability of the data centre.

## FEATURES

- Prefabricated installation with redundant system components to enhance overall reliability.
- Supports SMS, phone, email, sound, and light alarms with user-friendly interfaces such as remote apps, local LCD screens, and web access.
- Features high-efficiency modular UPS, integrated power distribution, in-row air conditioning, and closed channels to minimize energy consumption.
- Standardized modular design for quick, hot-swappable installation and easy maintenance.

## APPLICATION

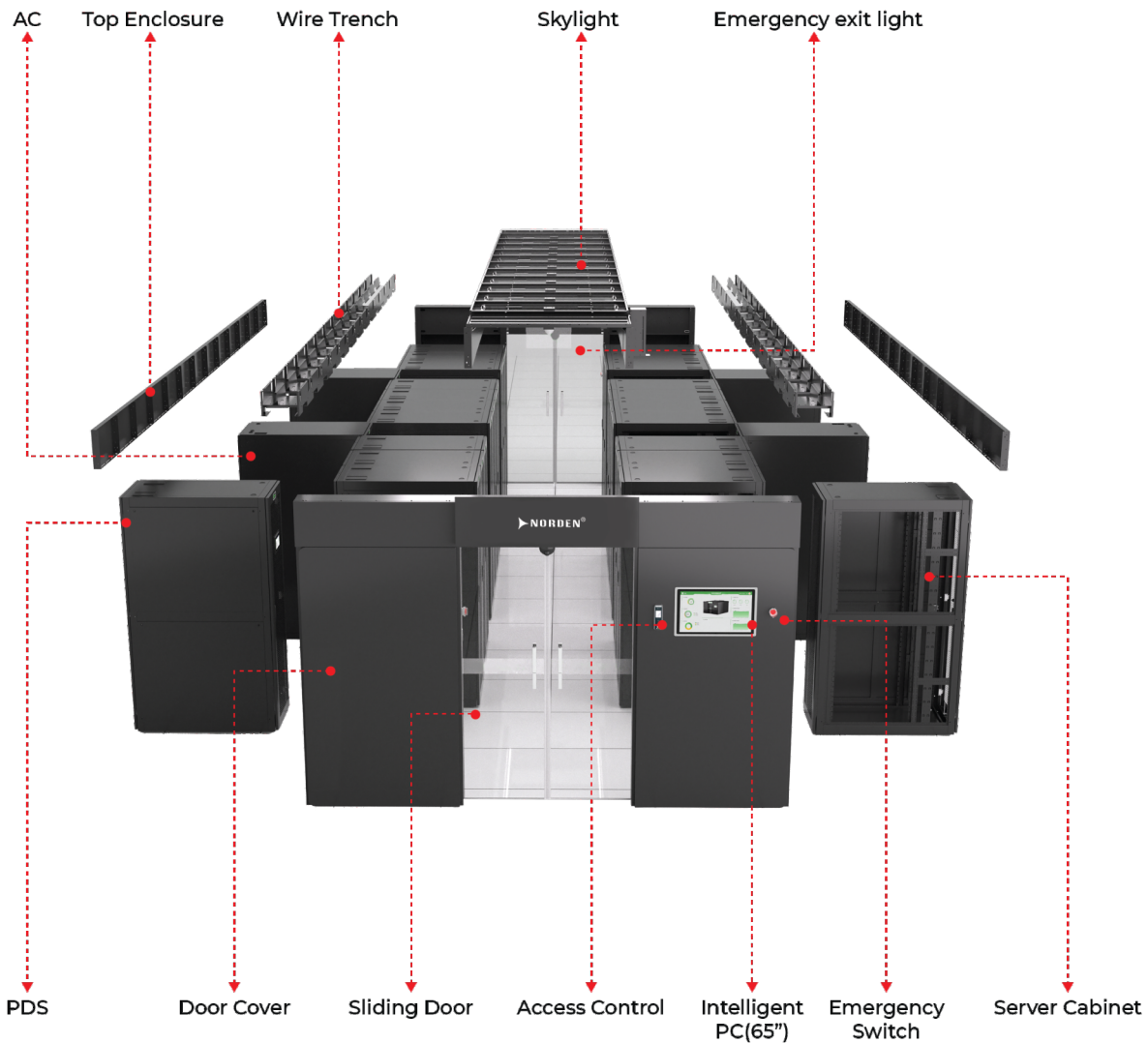
- Large and Campus Data Centres
- Banking, Financial Services
- Education Institutions
- Healthcare Facilities
- Manufacturing Industries
- Retail and Wholesale Businesses
- Transportation Sector

# NORDEN AISLE CONTAINMENT CABINET

## SPECIFICATIONS

System	
Dimensions (W x D x H) mm	3600 x L x 2600
IT Rate Power/Cabinet	3 ~ 12kW
Door	Automatic Sliding Doors / Manual Sliding Doors
Lighting	LED Lighting + RGB
Door Security	Fingerprint + IC Card + Face ID
Ambient Temperature	0°C to +45°C
Ambient Humidity	10-95%
Protection Level	IP 20
Installation	Installing on Concrete Floor or Raised Floor
Cabinet System	
Dimensions (W x D x H) mm	600/800 x 1200/1100 x 2000/2200
Space Available	42U
Cables Entry	Top and Bottom
PDM System	
Input Way	Single Input MCCB / Dual Input ATS
Input Rate	380/400/415 VAC ,50/60 Hz
Total Input Current	63 ~ 400 Amp
Surge Protection Device	Class B/C (Optional)
Distribution Type	Integrated UPS Power Distribution Cabinet
UPS System	
Rate Capacity	Built-in maximum 180kVA, external 200kVA or more
Input Frequency	50/60, ± 5Hz
Output Power Factor	1
Battery	Built-in Rack Battery Cabinet or External Battery Cabinet
PDU	
Standard Type	IEC Socket x 2pcs , 16 Ports (12 x 10A + 4 x 16A)
Cooling System	
Cooling Capacity	12.5 ~ 60 KW (In-row)
Refrigeration Method	Forced Air Cooling
Refrigerant	R410A
Monitoring System	
HMI Interface	23.8 Inch Touch all in-one PC
System Function	WEB Remote Access / Centralized Monitoring of Power, Environment, Video, Access Control System
Monitoring Parts	Smoke / Temperature & Humidity / Water Leakage / Infrared Detector / Webcam / Door Security / Fire Fighting
Alarms ( Optional )	Email / SMS Alarm / Sound and Light Alarm / Phone Voice / Phone APP

# NORDEN AISLE CONTAINMENT CABINET



## INDOOR IN – ROW PRECISION COOLING SPECIFICATIONS

In-Row Precision Cooling System is an intelligent temperature control solution for data centers, ensuring efficient, reliable, and secure operation for critical infrastructure.

- High energy efficiency with DCVF compressor, EC fan, and eco-friendly R410A refrigerant.
- Intelligent output with automatic cooling adjustments for optimal performance.
- Real-time monitoring via a 7" color touchscreen interface.
- CAN communication protocol supports control of up to 64 units.
- Hierarchical password protection for secure operation and maintenance.
- Durable structural frame and high-quality components ensure reliability.
- Rigorous testing guarantees safe and dependable performance.



# NORDEN AISLE CONTAINMENT CABINET

## SPECIFICATIONS

Indoor Unit Specification	Values					
Total Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Sensible Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Air Flow Rate ( m <sup>3</sup> /h )	2850	5080	5250	8580	10600	11600
Fan Type	EC Fan					
Quantity of Fans (Pcs)	4	6	6	2	3	3
Compressor Type	DC Variable Frequency Compressor					
Expansion Valve Type	Electronic Expansion Valve					
Refrigerant Type	R410A					
Heating Capacity (kW)	3.0	4.5	4.5	6.0	6.5	6.5
Humidifier Capacity (kg/h)	3.0	3.0	3.0	3.0	3.0	3.0
Power Supply	380V/3N ~ 50Hz					
Single Cooling Power Supply FLA (A)	19.0	23.2	29.2	30.1	34.8	43.8
Constant Temperature and Humidity Power Supply FLA (A)	22.9	27.9	34.0	37.6	42.0	51.0
Net Weight (kg)	200	225	235	305	335	350
Dimension: W×D×H (mm)	300*1200*2000	300*1200*2000	300*1200*2000	600*1200*2000	600*1200*2000	600*1200*2000
Conventional Outdoor Unit Specification	Values					
Quantity of Fans (pcs)	2	1	1	1	2	2
Net Weight (kg)	49	135	139	150	176	185
Dimension:W×D×H (mm)	830*330*1245	1376*980*738	1576*1274*748	1776*1274*748	2176*1274*738	2376*1274*748
Centralized Outdoor Unit Specification	Values					
Quantity of Fans (pcs)	1	1	1	1	1	1
Net Weight (kg)	140	150	166	176	186	196
Dimension:W×D×H (mm)	1098*1098*1684	1098*1098*1684	1098*1098*1774	1098*1098*1774	1298*1098*1774	1298*1098*1774