Rack,Cabinets & Accessories

Data center cold aisle containment

Data center cabinets module

- Standard 19" cabinets.
- Modular frame structure with max static loading weight 1300KG.
- SPCC high-quality cold-rolled steel plate, framework thickness 2.0mm while other frame part& top panel & front door & rear door 1.2mm.
- The front & rear door made of high-density ventilating door with max opening angle up to 180 degree.
- Single-opening for front door while double-opening for rear door, and lateral panel optional.

Single aisle lateral sealing module

- The module with glass window is specially utilized in single row cabinet system to support the top baffle, which is used with other assemblies including uni-directional door, roof baffle, bottom sealing panel,etc.
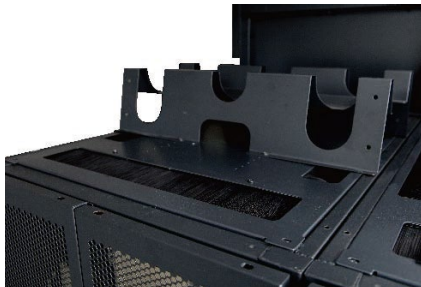
Ordering information

Model	Color	Dimension W×D×H(mm)	Remarks
VE604256100	Black	600×1000×2000	Select one as requested
VE614256100	Black	600×1100×2000	
VE804256100	Black	800×1000×2000	
VE814256100	Black	800×1100×2000	

Ordering information

Model	Dimension WxDxH(mm)	Remarks
LSP600	600×50×2400	Select one as requested
LSP800	800×50×2400	

Roof trunkings module

- Two-layers structure design, force & weak electricity cables .

Bottom sealing panels module

- Used to prevent the leakage of cold airflow from the bottom opening of cabinets.
- Made of SPCC 1.2mm thickness.

The brush is optional for bottom sealing panel.

Ordering information

Model	Corresponding Cabinets Type	Remarks
RT600	600mm width cabinets	Select one as requested
RT800	800mm width cabinets	

Ordering information

Model	Corresponding Cabinets Type	Remarks
BSP600	600mm width cabinets	Select one as requested
BSP800	800mm width cabinets	

Data center cold aisle containment

Lighting module

- Meet the lighting function of the aisle, achieve the intelligent lighting like switch-on upon coming in and switch-off upon leaving out.
- The whole automatic human inductive lighting system consists of two components- LED fluorescent lamp & intelligent human infrared sensor switch.

Integrated LED fluorescent lamp（length:600mm）
Specifications

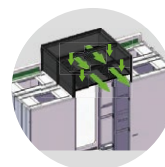| Item	Parameters	Item	Parameters
Color	Warm/cold white	Power	9W
Material	Aluminum dock & PC lampshade	Power coefficient	90
Beam angle	Degree 150	Flux	765~855lm
IP class	IP20	Beads Qty.	48
Outline Dia.	600×20mm	Effective lifetime	50000H
LED technology, broad voltage & instant current motivated, high-efficient, energy-saving & environmental friendly			

The parameters of human infrared sensor device

Item	Parameters
Working voltage	200V AC～250V AC
Load	1000W
Light-sensor methods	human infrared sensor
Time adjustable scope of delayed close-off	30secs~300secs(adjustable)
Detection scope	Length <10m, Cone angle: 140°
Automatic control with features including high sensitivity & high reliability & intelligent	

Aisle top baffles module

The top baffle will be installed on the top of aisle containment and has features as following.
- Fire-protection interlink control function.
- Easy to install & highly closure performance with other modules.
- Strong & highly weather-proof performance for long-life operation.

Input airflow duct attached in baffle module(optional, suitable for retrofit of data center)

Ordering information

Item series No.	Parameters	Remarks
TB6001200	• Suitable for 600mm wide cabinets; • Fire protection interlink function provided; • Made of 5mm thick & fire-retardant plexiglass with up 90% transmittance ratio.	Select one as requested
TB6001200	• Suitable for 600mm wide cabinets; • Fire protection interlink function non-provided; • Made of 5mm thick & fire-retardant plexiglass with up 90% transmittance ratio.	
TB8001200	• Suitable for 800mm wide cabinets; • Fire protection interlink function non-provided; • Made of 5mm thick & fire-retardant plexiglass with up 90% transmittance ratio.	
TB8001200	• Suitable for 800mm wide cabinets; • Fire protection interlink function non-provided; • Made of 5mm thick & fire-retardant plexiglass with up 90% transmittance ratio; • Power locker utilized to receive the fire alarming signal and then open the ceiling window within 0.5 sec automatically.	

Data center cold aisle containment

Bi-directional sliding doors module

This module specially utilized in case of the double-row cabinets and with features as following.
- Low-noise facility design.
- Anti-trap facility design.
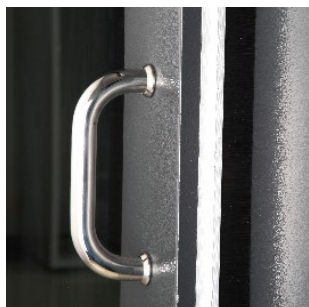- Automatic open function in case of power shut-down.
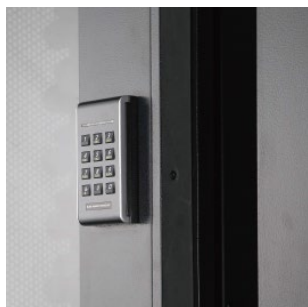
Ordering information

Model	Parameters	Remarks
BD1100-M	• Manual sliding door, the two leafe opened instantly; • Made of tempered glass and metal frame; • Two-layer enhanced structure and opposite opening method.	Select one as requested
BD1100-A	• Encoded button switch entry with manual-press leaving switch; • Intelligent micro-computer controller and interlink with fire protection system.	

Ordering information

Model	Parameters	Remarks
UD1100-A	• Manual sliding door, two doors opened instantly • Made of tempered glass and metal frame; • Two-layer enhanced structure and opposite opening method.	Select one as requested
UD1100-A	• Encoded button switch entry with manual-press leaving switch; • Intelligent micro-computer controller and interlink with fire protection system.	

luxury manual handle(optional).

Card password keyboard locker(optional).

Specialized suppressed switch applied for automatic door.

Brush all around to prevent the energy leakage.

Data center cold aisle containment

Power distribution module

The module installed in the 19" standard cabinets, it is connected up from UPS output distribution cabinet while down to cabinet PDU units, by which achieve the flexible distribution and management.etc.

19" rack-style installation

- Space-saving & keep the overall consistency of data center.
- Can be installed flexibly in any one of the cabinets row.
- Small-size & light-weight & easy for transportation.

Hot-swapping design

- The output port in favor of hot-swapping.
- Independent wiring terminal utilized in the input port, easy to install cable in the input port and convenient to replace the overall unit.
- PDM and PDU is patch-type connected to fulfill the flexible power supply-distribution requirement.

Modular design

Conduction completed by stages to achieve cost-saving.

High-reliability

Schneider/ACC switch series items applied , reliable performance & safety & free of maintenance.
C-class surge protector module available, and OBO brand series items be applied in.

Intelligent management

- Colorful touchable displayer is applied in and touch-style interactive feature available.
- Main current monitor factors including air breaker switch status, three-phase voltage, line voltage, current, load percentage, etc.

- Branch monitor factors including air breaker switch status, branch current, active power, etc.

- over-voltage, low-voltage, overload, frequency overrun, neural to earth voltage abnormal(malfunction) audible and visual alarming.
- Multi-level current threshold warning.
- RS 485 remote communication interface applied in to fulfill the remote monitoring function.

Environmental monitor module

The module consists of software and hardware components, the hardware components include monitor main-unit, sensor & control unit, detecting module, alarming module and computer networks, while software includes sensor procedure and central management platform.

Detection

- Circumstance(temperature, humidity, water-leakage, spatial air-conditioners, fresh air ventilators)
- Power (distribution, UPS, PDU, generator)
- Security (access system, video setting)
- Fire-protection(smoke detetor,FM200)
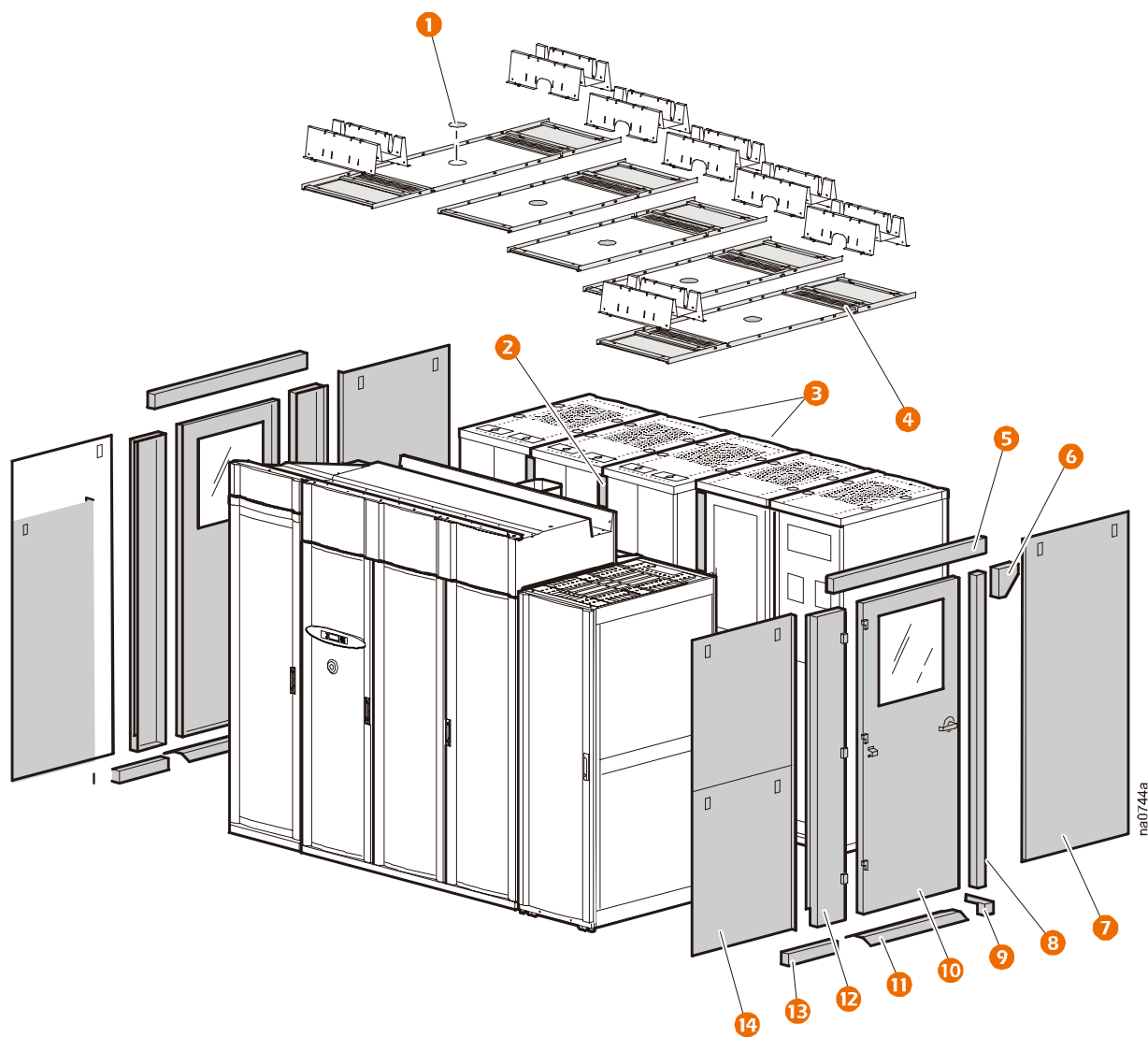- IT(servers, routers)

Alarming

- voice, lighting, pop-up box, message, telephone, email, etc.

Remarks: Determine the working parameters according to the specific requirements from clients.
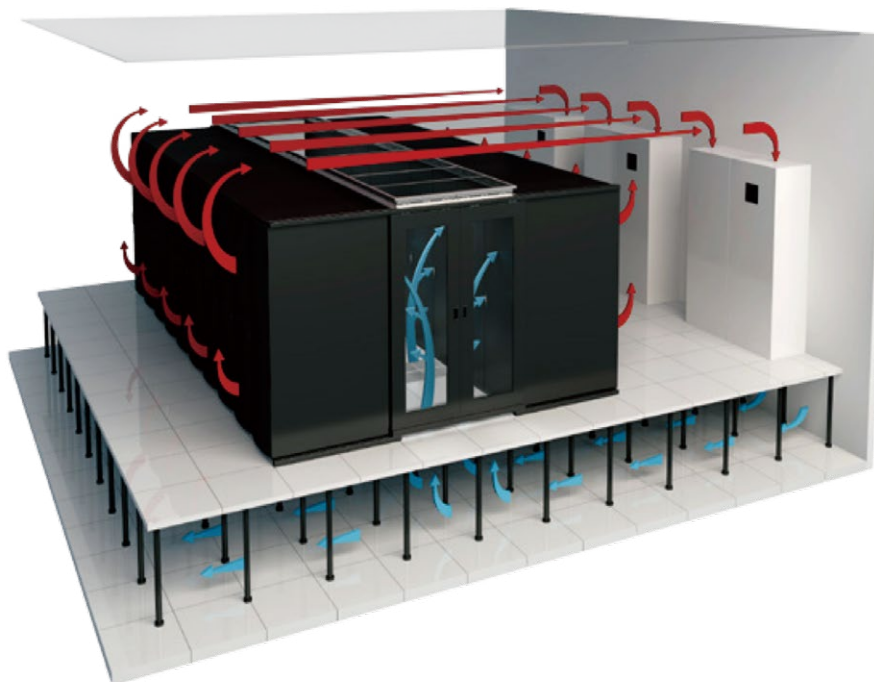
Components Identification

Exploded view

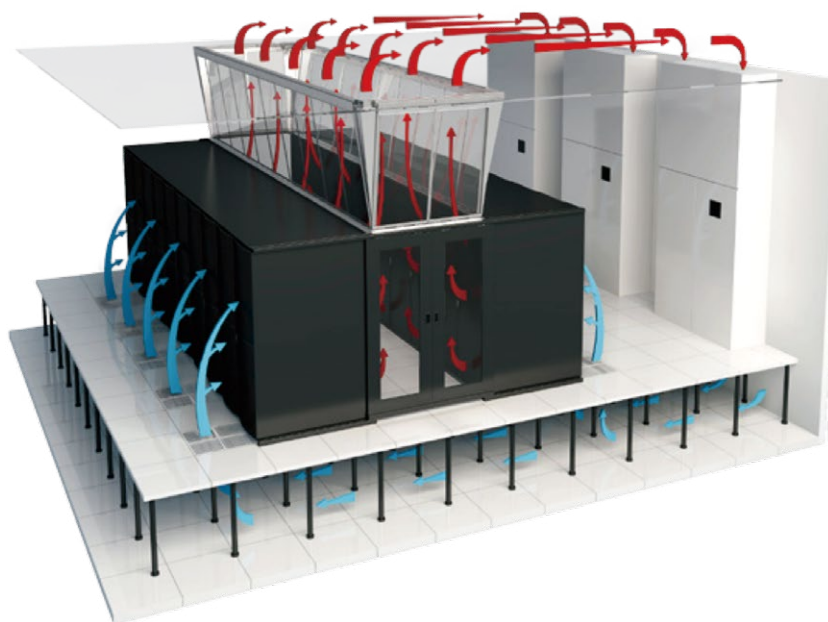|			
①	Cap plug	⑧	Door frame upright
②	Joining brackets	⑨	Plinth block
③	21U side panels (not shown).	⑩	Door
④	Ceiling panels	⑪	Threshold
⑤	Door header	⑫	Door frame upright
⑥	Corner brace assembly	⑬	Plinth block
⑦	Side panel	⑭	21U side panels (VE enclosure)

Note The individual components will vary from the design of specific data center and requirements on structure, control methods, etc.

Systematic diagrams

Cold-Aisle Containment

Hot-Aisle Containment