

SmartCabinet™2-ECO



SmartCabinet™ Family

Built-in Condenser



Outdoor Condenser



Replacement

Replace SmartCabinet™ 2-Integrated with **SmartCabinet™ 2-ECO**



- Full containment (600mm width) with glass door design
- Supports up to 18U IT usable space
- Double conversion UPS with internal battery module
- Supports up to 3kW IT system
- Switched rack PDU
- Built-in outdoor condenser
- Features cooling modulation, 30-100%
- 9" inch touch screen HMI display
- Centralized monitoring via RDU
- Built-in sensor system to monitor the cabinet
- Smart lock system

SmartCabinet™ 2-Integrated
600mm



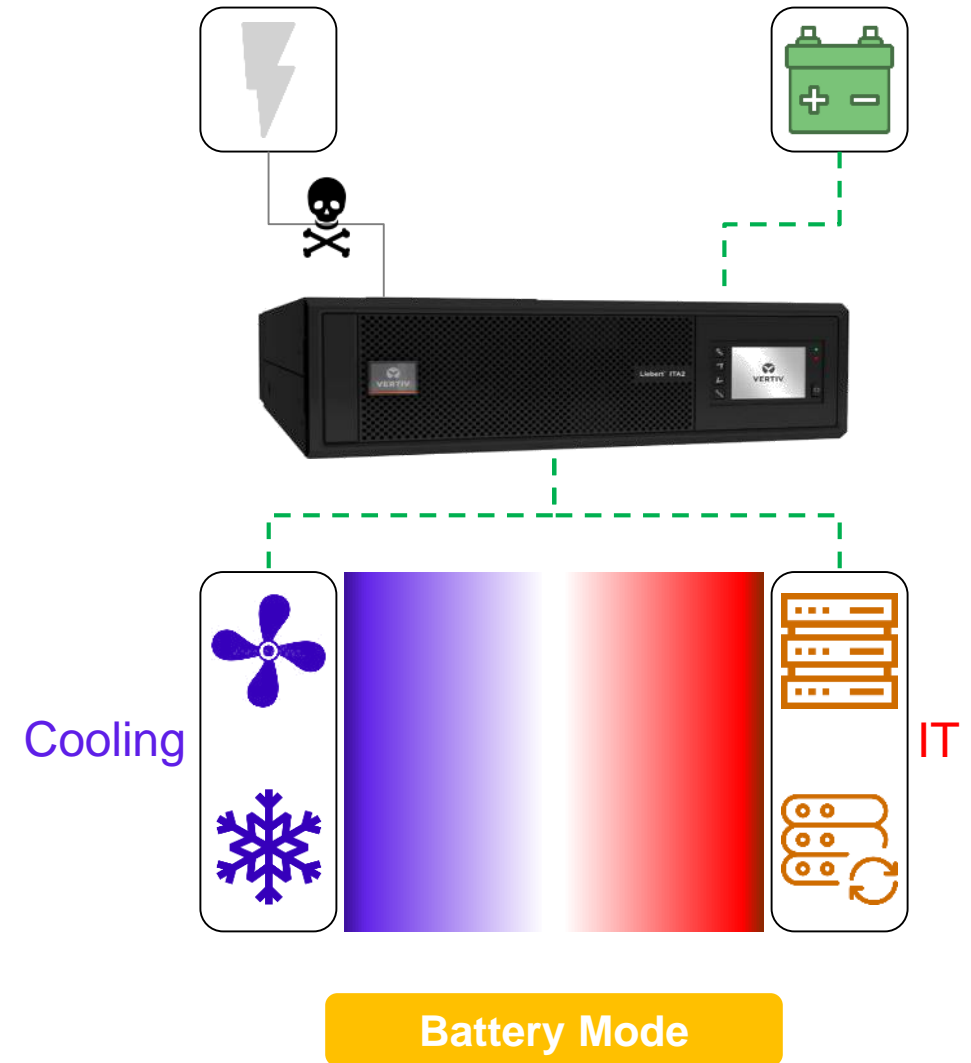
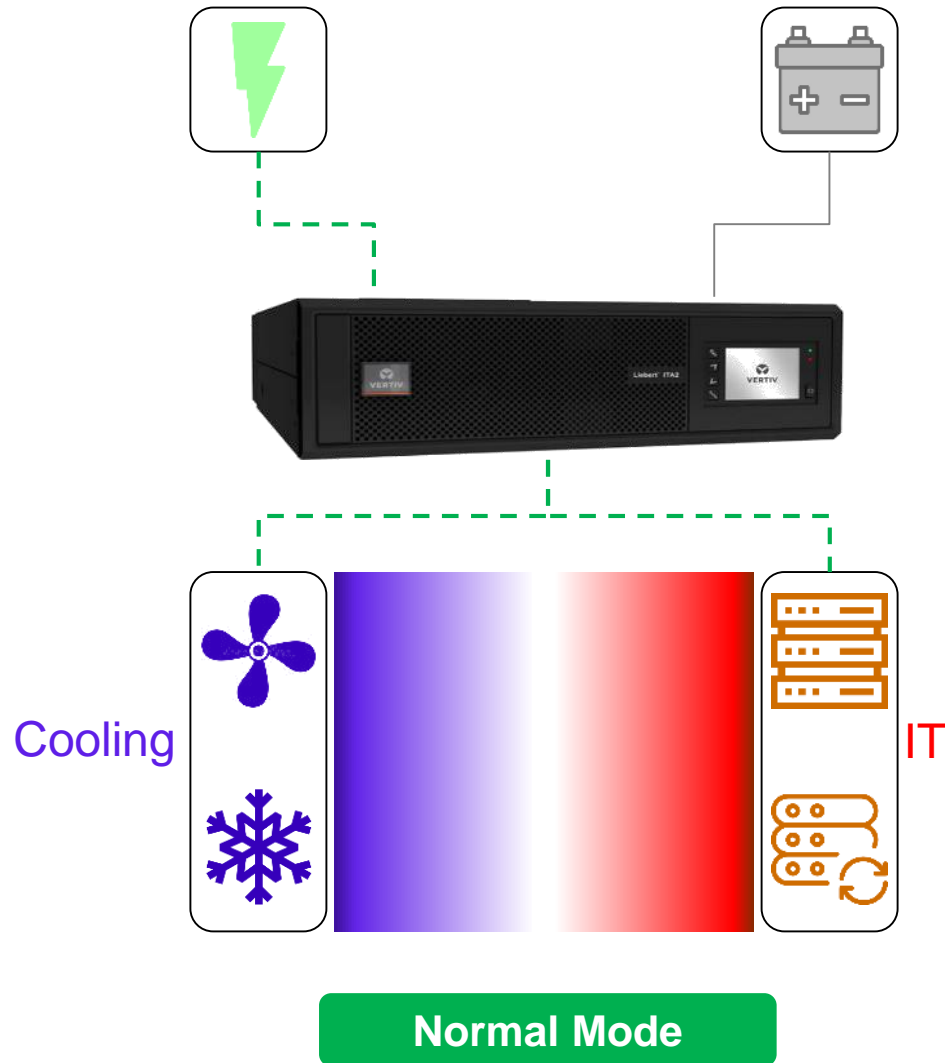
- Full containment (600mm width) with glass door design
- **Supports up to 24U IT usable space (NEW)**
- Double conversion UPS with internal battery module
- Supports up to 3kW IT system
- Switched rack PDU
- **Self-contained cooling system (NEW)**
- **Cooling high availability (NEW)**
- Features cooling modulation, 30-100%
- **Features ECO Mode (NEW)**
- 9" inch touch screen HMI display
- Centralized monitoring via RDU
- **Tri-color LED lighting (NEW)**
- Built-in sensor system to monitor the cabinet
- Smart lock system

SmartCabinet™ 2-ECO
600mm

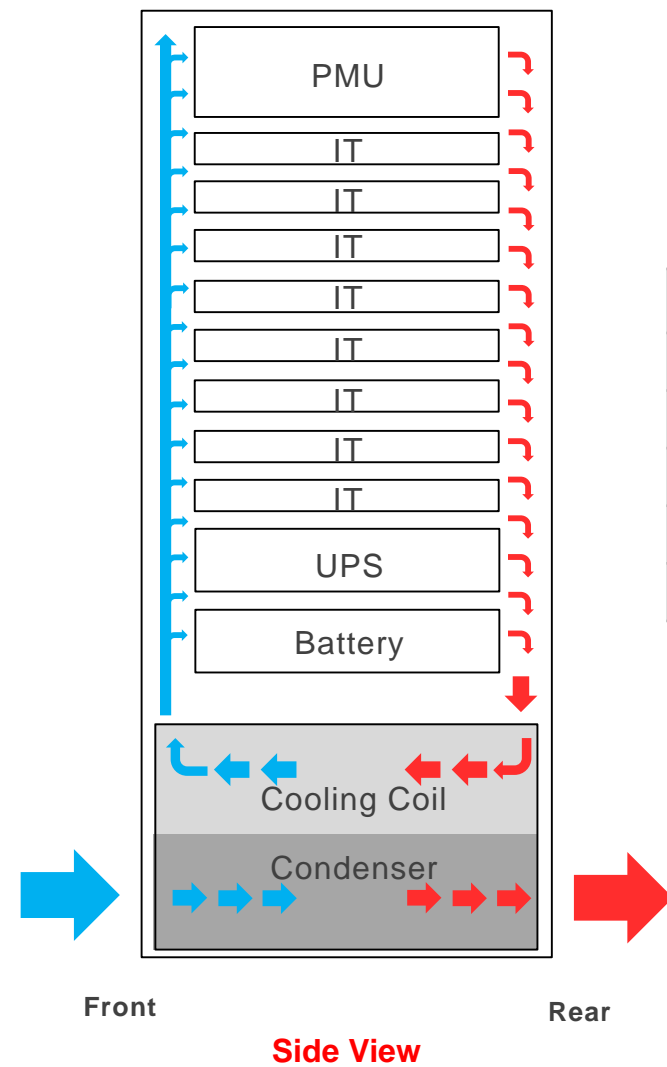
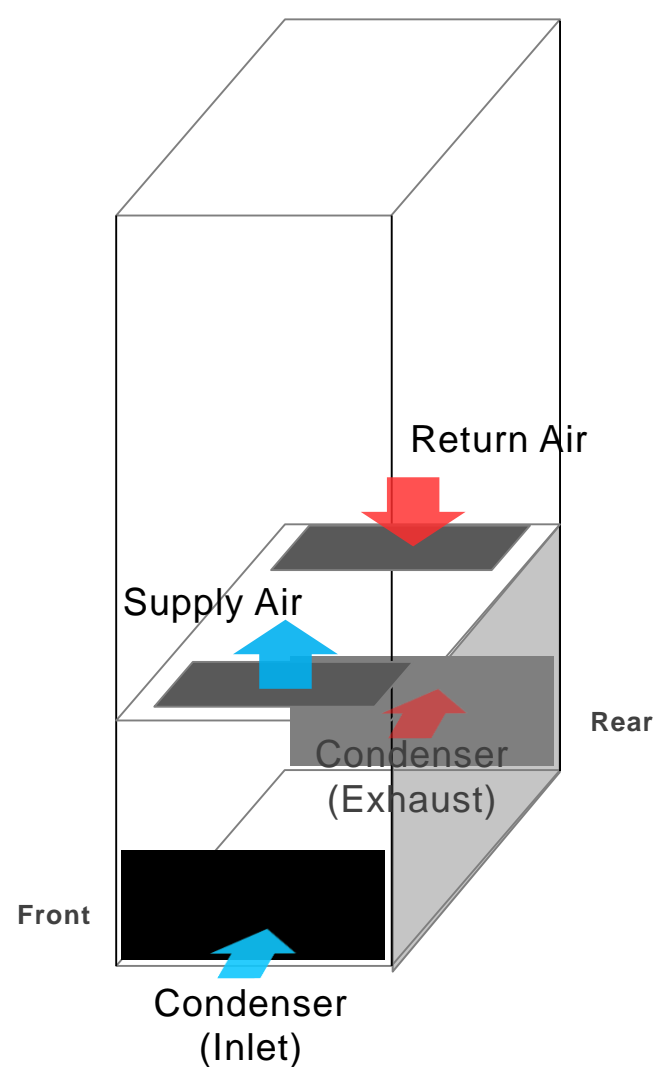
SmartCabinet™2-E



SmartCabinet™2-E- High Availability (HA)

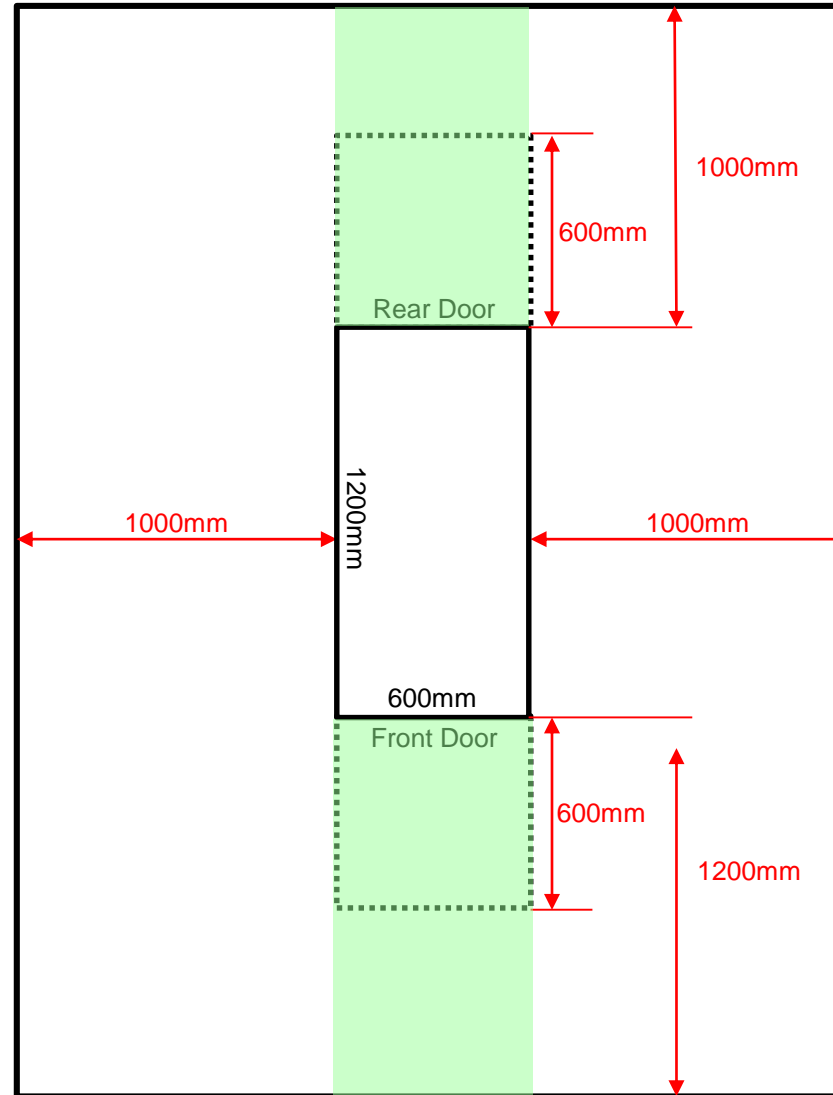


SmartCabinet™2-E - Integrated Cooling Unit



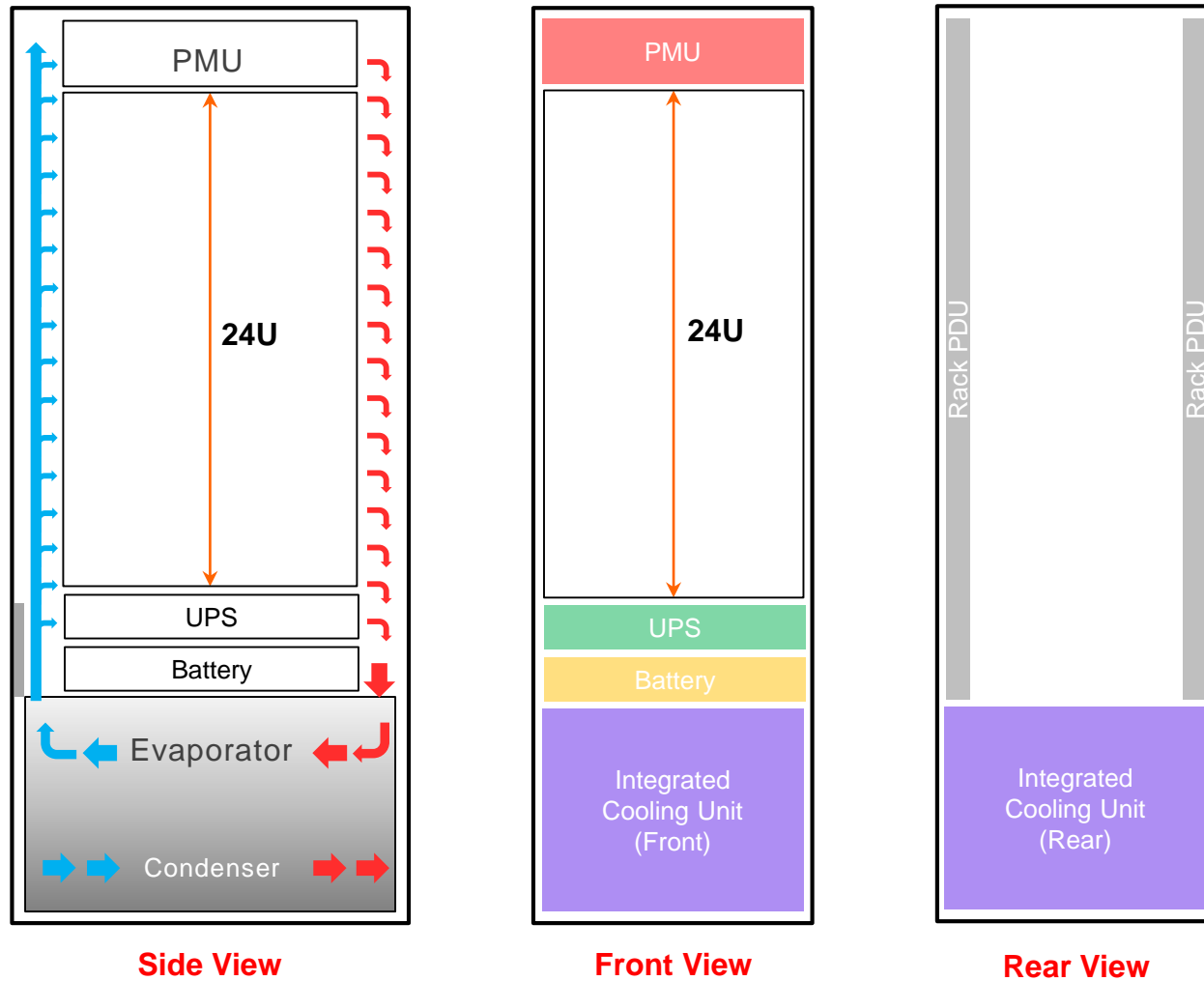
| Integrated Cooling Unit | |
|-------------------------|-----------------------------|
| Cooling Capacity (W) | 900 ~ 3500 |
| Dimension (mm) | 439 (W) x 442 (H) x 978 (D) |
| Fan Speed (CMH) | 350 ~ 750 |
| Refrigerant | R410A |
| Certificate | CE/CCC |

SmartCabinet™ 2-E – Service Area

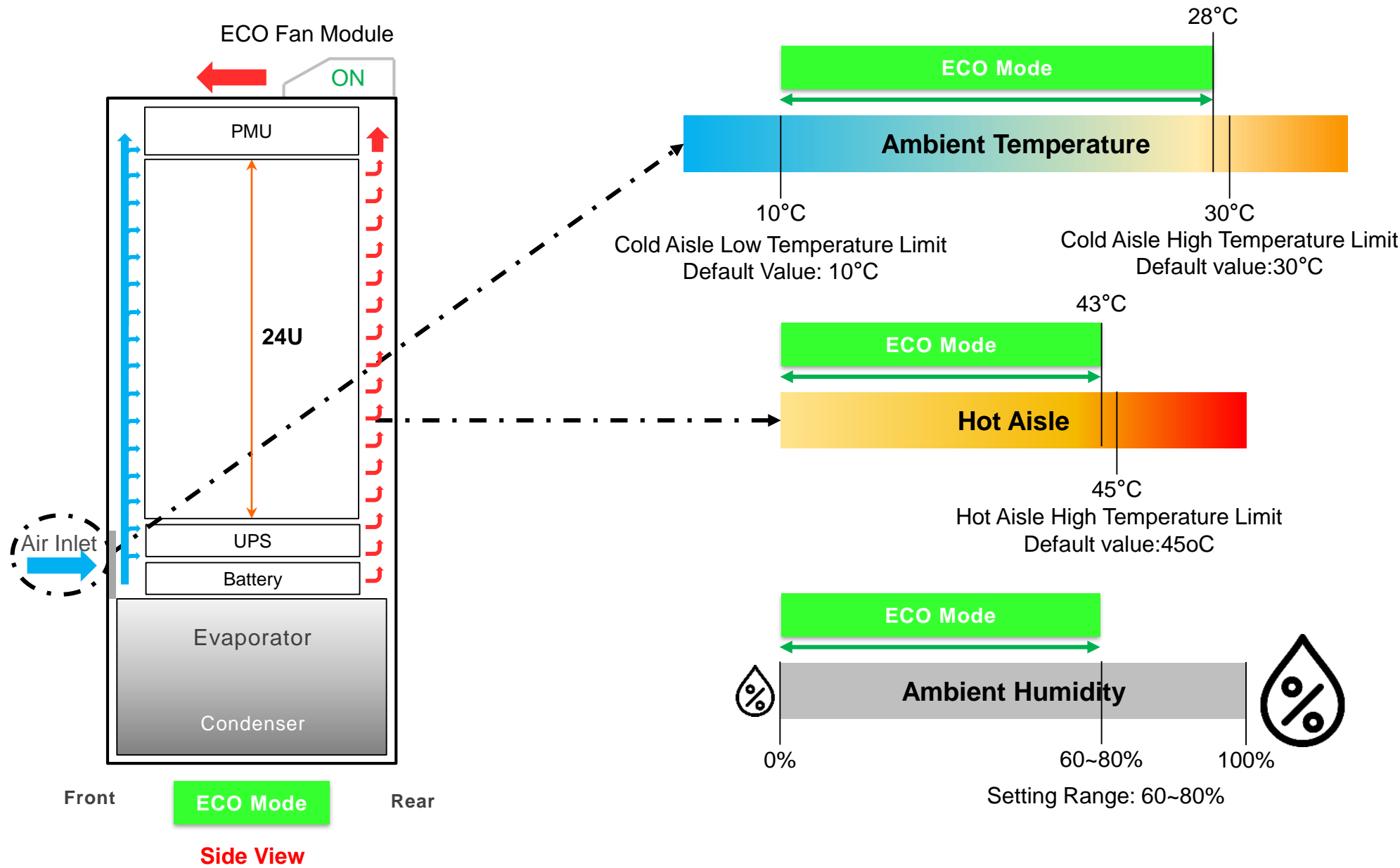


Compulsory
Front and Rear clearance

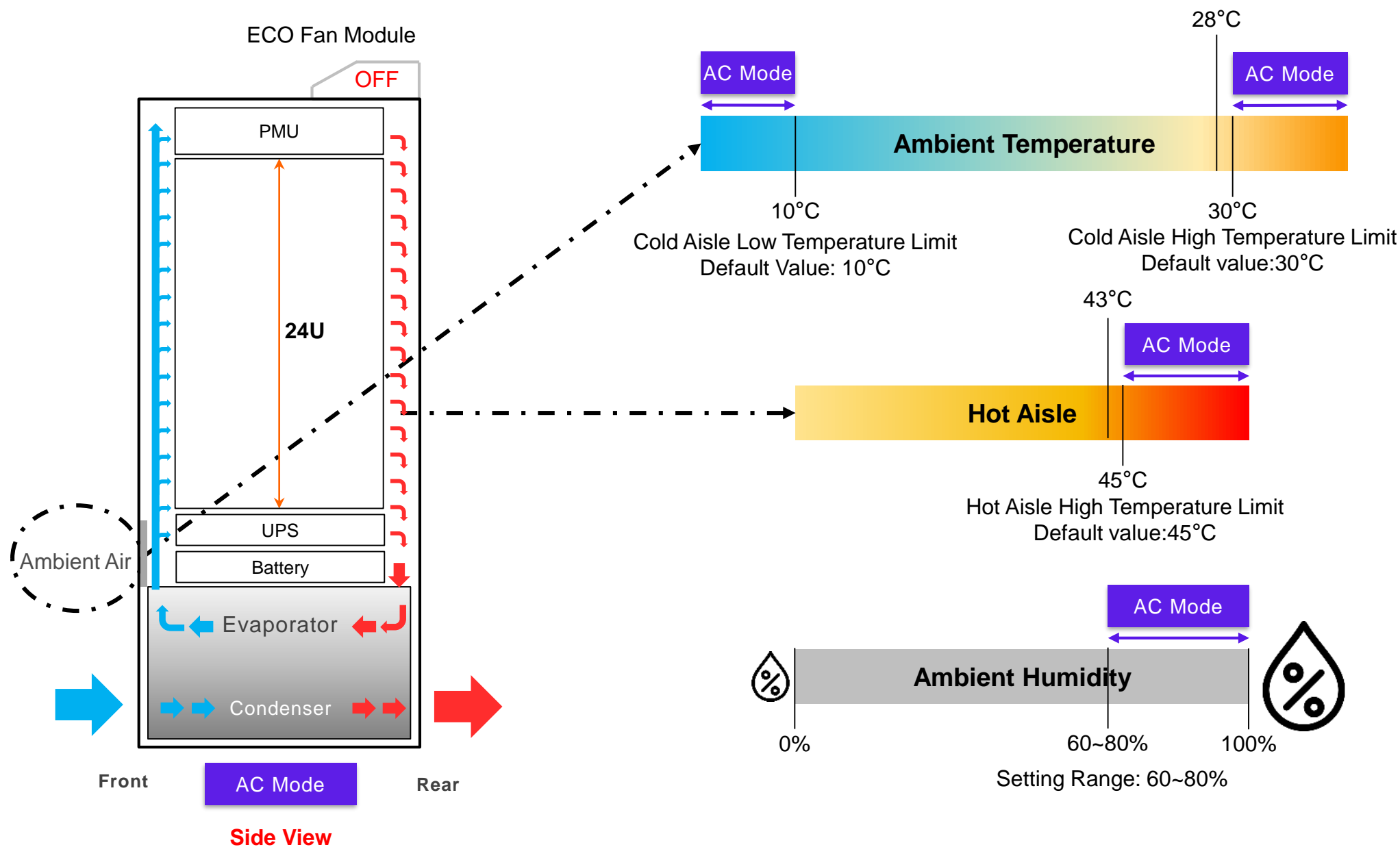
SmartCabinet™ 2-E – Internal Component Placement



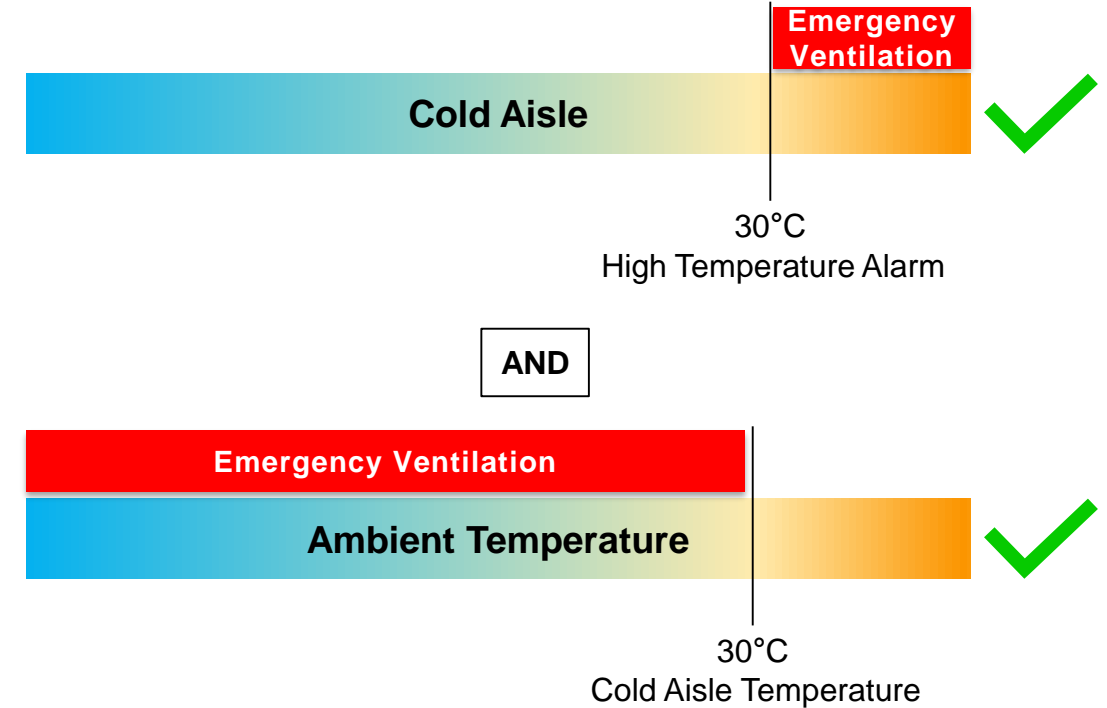
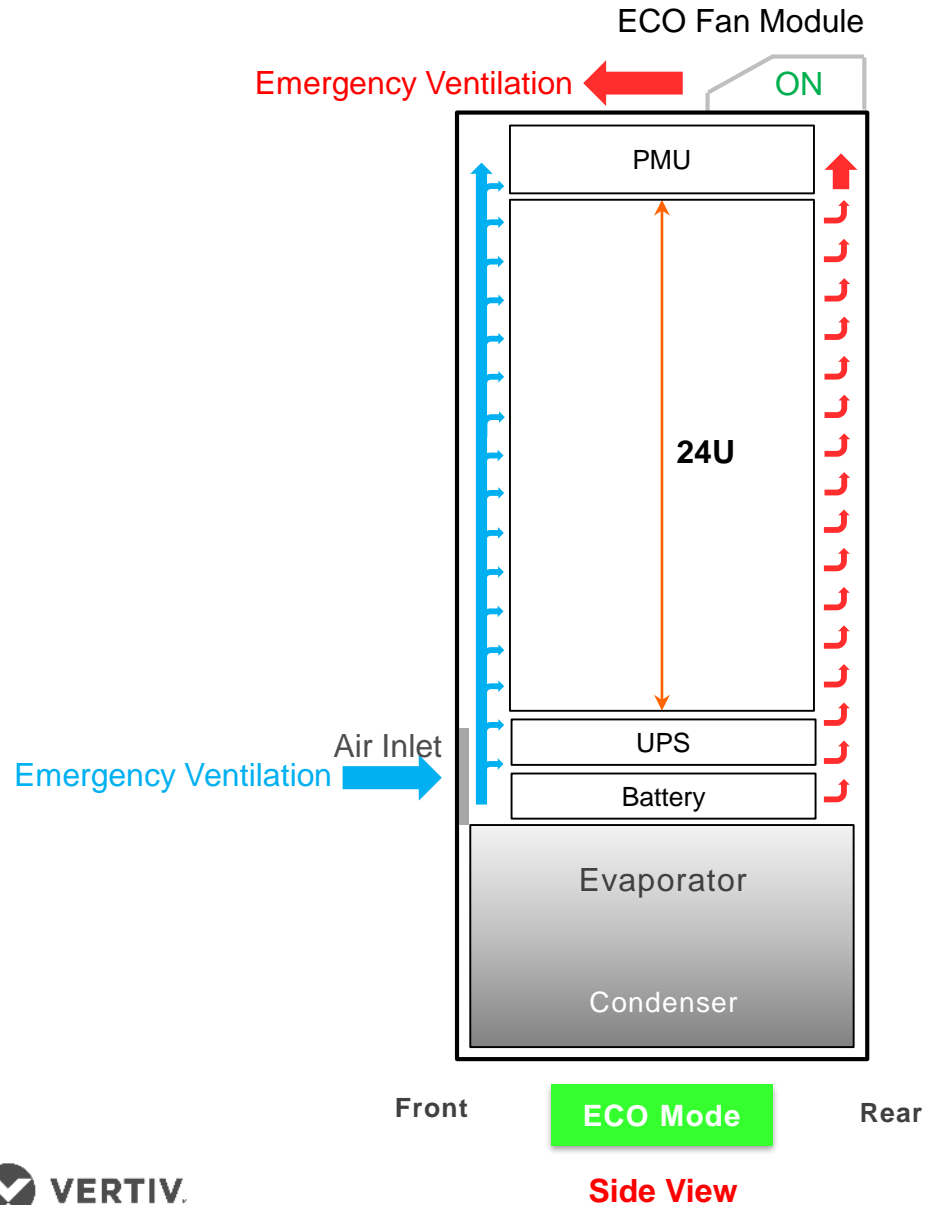
SmartCabinet™2-E – ECO Mode



SmartCabinet™2-E – AC Mode (Exit ECO Mode)



SmartCabinet™ 2-E – Emergency Ventilation



*Emergency Ventilation Mode

1. High temperature in cold aisle
2. Ambient temperature < Cold aisle temperature

*These 2 conditions must be satisfied in order to activate emergency ventilation.

SmartCabinet™2-E – ECO Mode Setting

ECO Mode Setting on RDU Web and HMI

Home Page Control Status: Approved 2 0 0 Welcome: admin[Logout]

ECO Management

ECO Running Status

| | |
|------------------------|----------------|
| Running Status: | Non-ECO Status |
| EC Fan Status: | Close |
| Running Time: | -- |
| Start Temp High Limit: | 28.0°C |
| Start Temp Low Limit: | 10.0°C |

ECO Configure Parameter

Enable/Disable: ☐ ECO Enable ☒ ECO Disable

Temperature Dead Zone: °C

Power Limit Threshold: W

Start Hum High Limit: % Tips: Hum Limit Setting must between 60%~80%

Left Sidebar:

- Cabinet Data +
- UPS Shutdown +
- Thermal Mgmt. -
- ECO Management**
- Safe Mgmt. +
- Alarm Mgmt. +
- Data&History +
- Device Options +
- System Options +
- Help +

Home Thermal Power ENV Alarm Log **Setting** Smart Cabinet™

Language Password Network System Config **ECO** 2019/08/13 11:16:00

ECO Enabled: ☒ YES ☐ NO

ECO Max Start Humidity: %
Range: 60%-80%

Service Line: 400-887-6510

SmartCabinet™ 2-E – Door Access

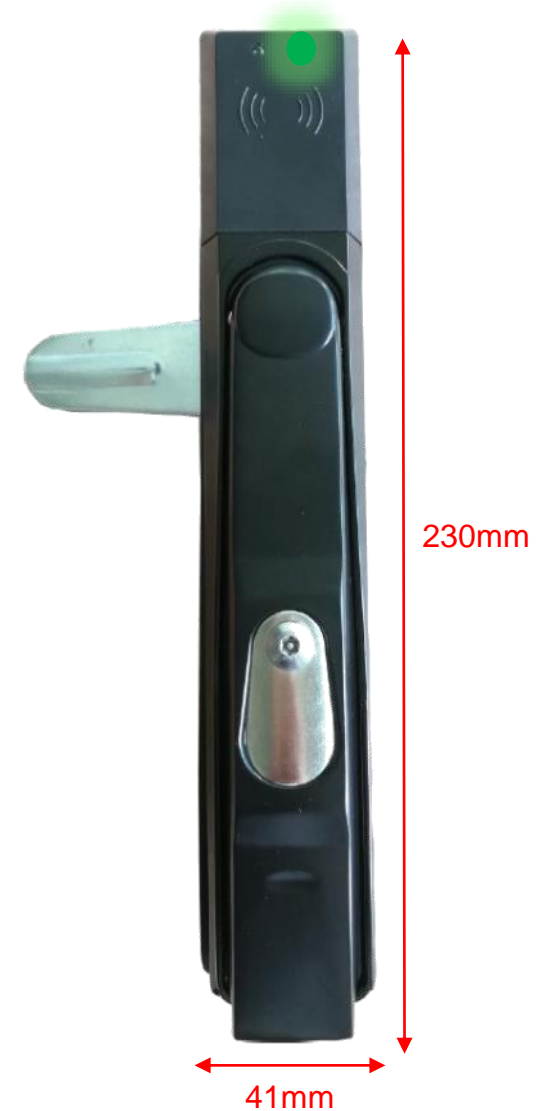
Electronic Lock:

Door lock system can be accessed locally by using **ID cards and physical key**. Remote door access can be done via **Web Interface**. Door access history log is recorded intelligently. ID card registration can be done via web interface with ID number input.



RFID Card

Working Frequency: 125kHz



SmartCabinet™ 2-E – Tri-color LED Lighting

Enables status checking on cabinet.



Normal

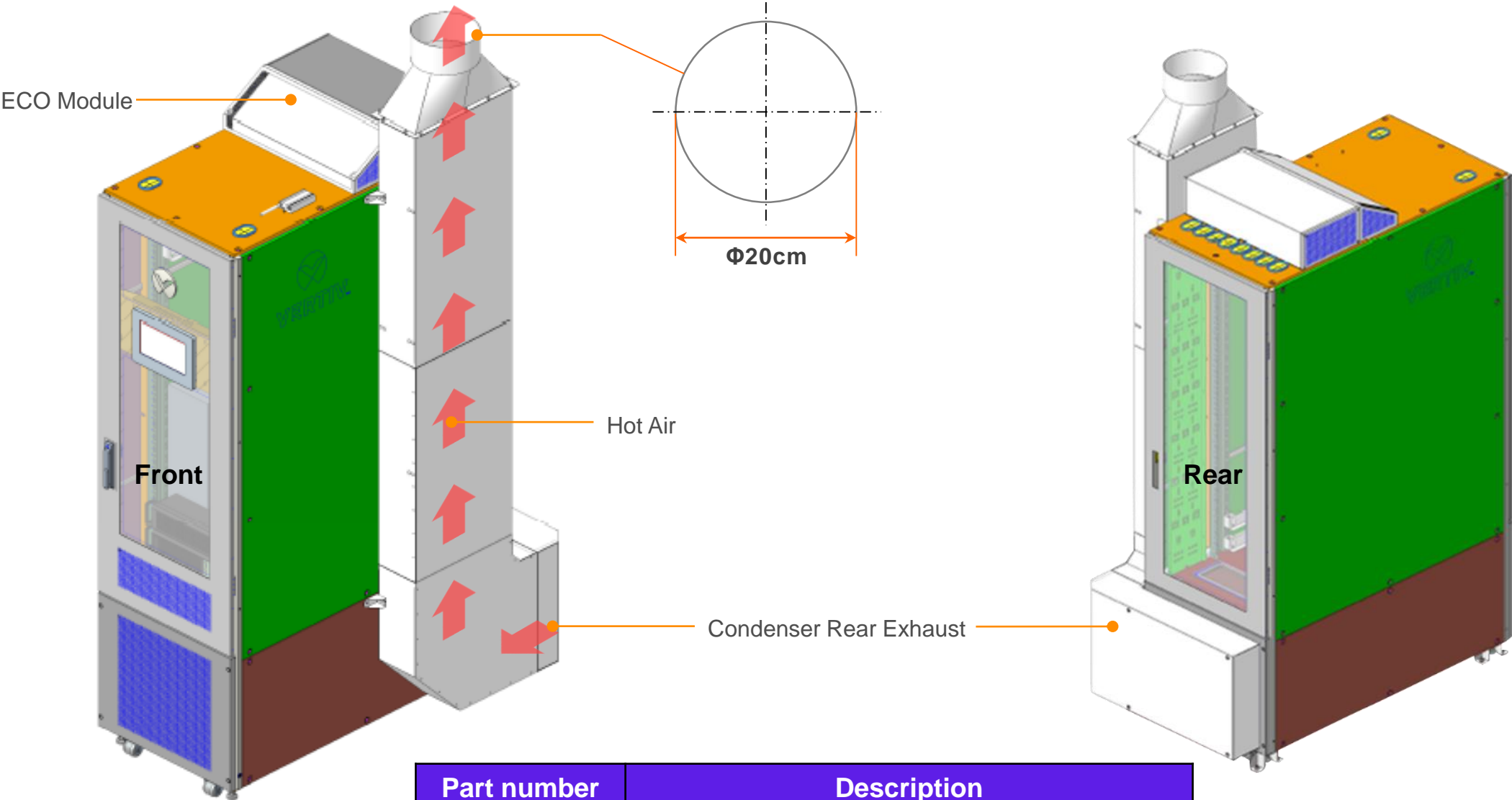


Alert



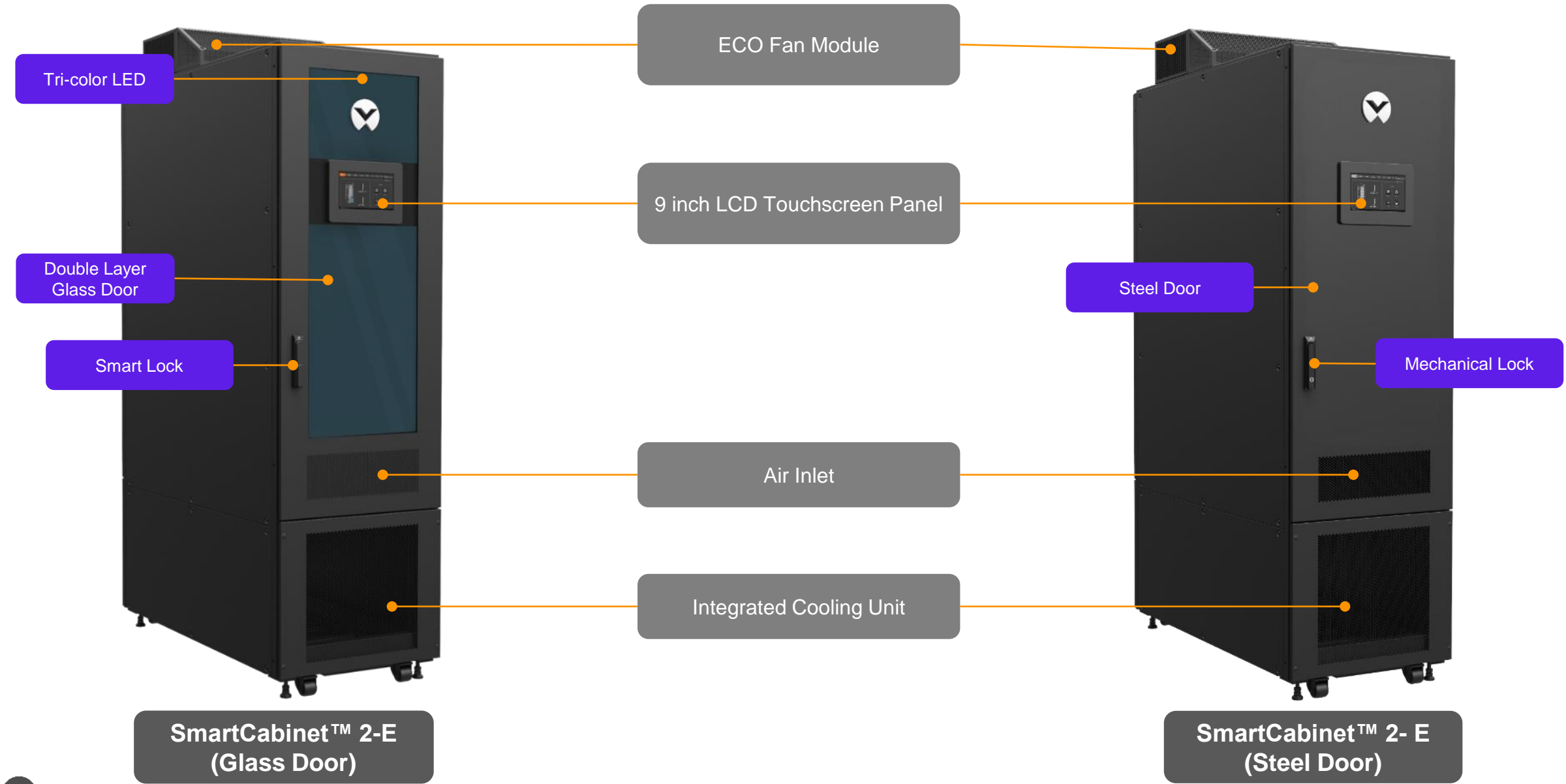
Door Open

SmartCabinet™2-E – Air Duct (Optional)



| Part number | Description |
|-------------|--------------------------------|
| 02312846 | Air Outlet Accessory for SC2-E |

SmartCabinet™ 2-E: 2 models



SmartCabinet™2 - Model & Part Number

| Part number | Description | Model number |
|-------------|--|------------------|
| 01230285 | SmartCabinet™ 2- Split 600mm | MSC-A7S652BSNNX1 |
| 01230284 | SmartCabinet™ 2- Split 800mm | MSC-A7S852BSNNX1 |
| 01230459 | SmartCabinet™ 2- Premium 800mm | MSC-A7P861ASNYAX |
| 01230979 | SmartCabinet™ 2- ECO Glass Door 600mm | MSC-A7E662ASNYA1 |
| 01231103 | SmartCabinet™ 2- ECO Steel Door 600mm | MSC-A7E662ABNYA1 |

- 7= 50Hz & 60Hz
- Split, Eco or Premium
- 600mm or 800mm
- S: Smart Lock
B: Sheet Metal Door Mechanical Lock

SmartCabinet™ 2 (ECO vs Split)



- PMU-power management unit (Power Breakers)
- 9 inch touch screen monitoring LCD
- Electronic Door lock
- 600mm Width
- Cooling Capacity
- IT Load Capacity
- Emergency Ventilation
- Full Enclosed Containment



SmartCabinet™ 2 (ECO vs Premium)



- PMU-power management unit (Power Breakers)
- 9 inch touch screen monitoring LCD
- Electronic Door lock
- ITA2 6kVA UPS
- High Availability (Cooling)
- Cooling Capacity
- IT Load Capacity
- Emergency Ventilation
- Full Enclosed Containment



When do we use which SmartCabinet™?



SmartCabinet™-S (Split):

- 2000mm x 600mm x 1200mm
- 5KVA / 5KW UPS **rack mount**
- 3.5KW Cooling **rack mount**
- **Outdoor Condenser**
- Ingress Protection Code: IP5X
- **29RU IT useable space**
- LCD touch screen
- 50amp breaker size required

Choose me when

- No restriction with building.
- When they allow you to drill holes through wall and place condenser outdoor.
- **Outdoor have space for condenser placement.**
- **Distance between outdoor and indoor cooling is within the piping limitation.**
- When customer require slightly more IT rack space to house compare to Integrated type with mixture of legacy and new servers and storage with minimum network equipment.



SmartCabinet™-P Premium (Split)

- 2000mm x 600mm x 1200mm
- 6KVA / 6KW UPS **side mount**
- 3.5KW Cooling **side mount**
- **Cooling supported by UPS**
- **Outdoor Condenser**
- Ingress Protection Code: IP5X
- **42RU IT useable space**
- LCD touch screen
- 50amp breaker size required

Choose me when

- No restriction with building.
- When they allow you to drill holes through wall and place condenser outdoor.
- **Outdoor have space for condenser placement.**
- **Distance between outdoor and indoor cooling within the piping limitation.**
- When customer require FULL height IT rack 42U space to house maybe **legacy, new servers, network switches, patch panels with more network patch cables**
- **Require cooling to be supported by UPS.**



SmartCabinet™-E (ECO)

- 2150mm x 600mm x 1200mm
- 6KVA / 6KW UPS **rack mount**
- 3.5KW Cooling **rack mount**
- **Integrated cooling unit**
- **ECO Mode**
- **Cooling supported by UPS**
- Ingress Protection Code: IP2X
- **24RU IT useable space**
- LCD touch screen
- 50amp breaker size required

Choose me when

- Have restriction with building.
- When they do not allow you to drill holes through wall and place condenser outdoor
- **Do not have space for condenser placement**
- **Distance between outdoor condenser and indoor cooling exceed the piping limitation.**
- Heat exhaust kit will be required to duct upwards (optional)
- Customer is using new IT technology which don't consume a lot of IT Rack space
- **Require cooling to be supported by UPS**

SmartCabinet™ Family Specifications

| Description | SmartCabinet™ Family | | |
|---------------------------|--|--|-------------------------------|
| Cabinet Size (H x W x D) | 2000 x 600 x 1200 (mm) 2000 x 800 x 1200 (mm) | 2000 x 800 x 1100 (mm) | 2150 x 600 x 1200 (mm) |
| Type | Split Type | Split Type (Premium) | ECO |
| Usable U Space | 29U | 42U | 24U |
| Width of Cabinet | 600 mm or 800 mm | 800 mm only | 600 mm only |
| Outdoor Unit | Split (Outdoor) | Split (Outdoor) | Self-Contained |
| Cooling High Availability | No | Yes | |
| UPS (Liebert ITA2) | 5kVA | 6kVA | |
| Cooling Capacity | 900~3500W | | |
| System Capacity | 3000 W | | |
| System Input Requirement | 50A, Single Phase 220/230/240 | | |
| System Frequency | 50Hz & 60Hz | | |
| Rack PDU | 32A input, 18xC13+6xC19, 2pcs | 16A input, 14xC13+2xC19, 1 pc(PMB) 16A input, 12xC13+4xC19, 1 pc(PDU) | 16A input, 12xC13+4xC19, 2pcs |
| Display Panel | 9" Touch Panel LCD | | |
| Door Lock System | Electronic Lock | | |

