



Vertiv™

SmartCabinet™ 2-E

An Eco-enabled Edge Infrastructure



Vertiv™ SmartCabinet™ 2-E

Vertiv™ SmartCabinet™ 2-E is a next generation all-in-one edge infrastructure featuring "full integration of active and passive infrastructure". The Vertiv SmartCabinet 2-E version features an ECO mode operation which provides emergency ventilation and intelligently gets activated in case of overheating or a failure of the cooling unit.

This solution is one of the first in industry to feature ECO operation modes, which can greatly reduce system noise and energy consumption and can deliver an unprecedented human-machine friendly experience to edge computing users.

Applications



Corporate IT Applications



Manufacturing Automation



Data Networking



Automated Warehouses

SmartCabinet™ 2-E

ECO Fan Module

Enables ECO mode and activates intelligently. Provides emergency ventilation in the event of overheating or cooling unit failure.

Power Management Unit (PMU)

Built-in PMU provides power management and distribution to UPS, cooling unit and rack PDU. Comes with surge protection device.

Rack Power Distribution Unit (rPDU)

Features branch level metering and remote on/off control of individual receptacles.

Blanking Panel

Smart Lock

Provides secure door access via ID card, web interface and key.

UPS & Internal Battery

On-line double conversion UPS with internal battery module ensures clean power feeding to critical IT equipment. Power Factor: 1.0.

LED Lighting

LCD Touchscreen Panel

User-friendly display enables easy access to power, cooling, environment and security information.

Centralized Management & Monitoring

Enables central management of all intelligent components within the rack.

Environmental Sensor

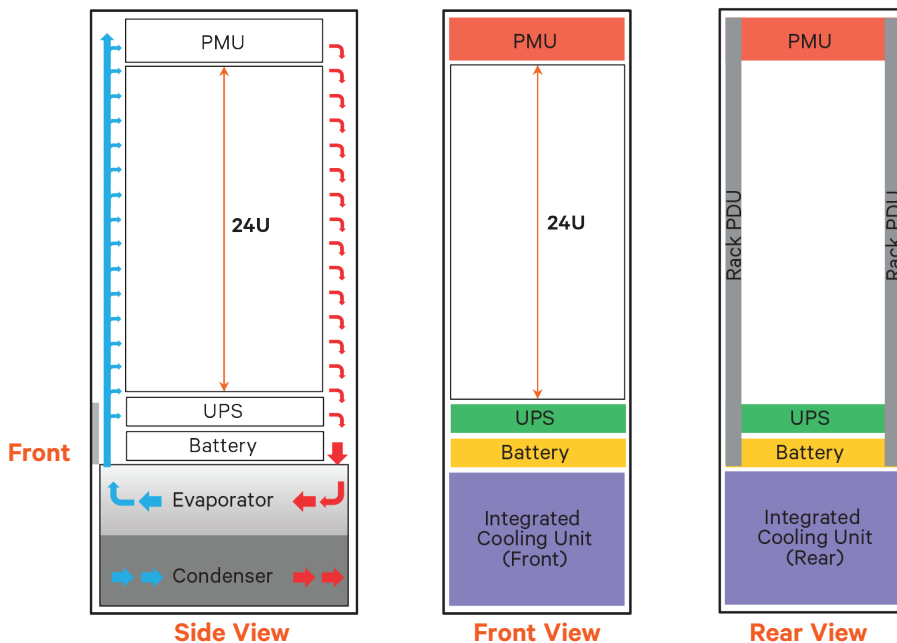
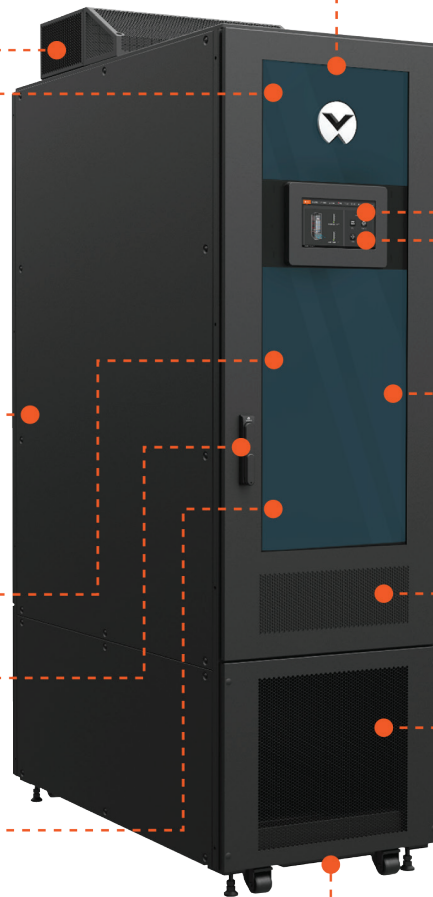
Report critical environmental information and alarm notification. Ensure IT equipment is kept in desired condition.

Air Inlet

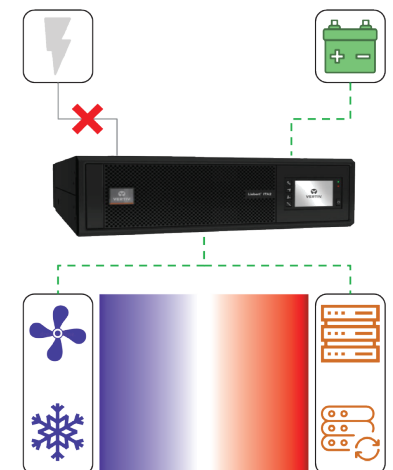
Cooling Unit

Integrate cooling coil and condenser within the cooling unit for complete heat exchange. Provide variable cooling capacity directly to IT equipment.

Water Leak Detector



Backup Power Electrical Distribution



Smart Ambient Aesthetic



Working Fine: **Blue Light**



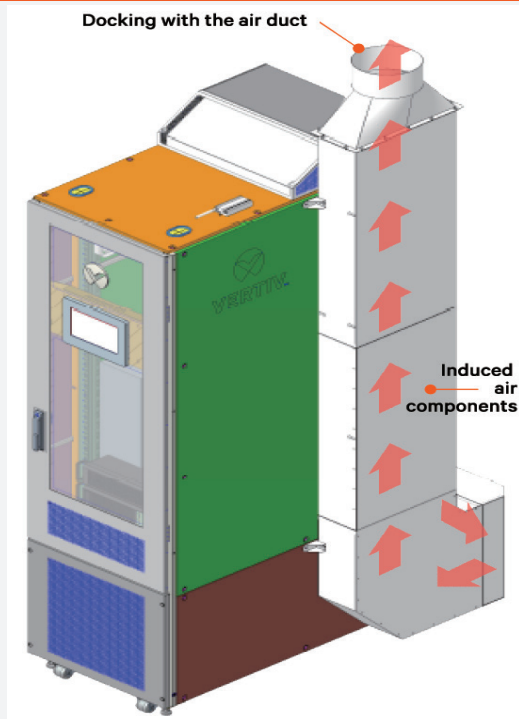
Fault Condition: **Red Light**



Door Open: **White Light**

Integration of system logs with sensing technology enhance the human machine interface and aesthetic as well.

Tailored to Your Environmental Needs



- Avoid heat accumulation in small or poorly ventilated environments.
- The air duct interface adopts a "rectangular-circular" variable cross-section design, which is convenient for alignment.
- The air inlet management extension can be assembled and fitted with the main cabinet. The size of extension is consistent to main cabinet.

Select Frame as Per Site Requirement (Two options available)



Office Model

Front and rear transparent glass doors featuring noise reduction and great aesthetic. Best suited for IT infrastructure needs.



Industrial Style

Front and rear metal doors, thick and anti-dust. Best suited for rugged and tough industrial environment.

Parameters Table

System Dimension	600 mm x 1200 mm x 2150 mm (WxDxH)*
Frame Size	24U**
Rated IT capacity	3 kW.
Mains input system	Single phase 220 V.
Lightning protection level	C Grade.
PDU	0U Switch type intelligent PDU, rated 16 A, GB 10 A*12+GB 16 A*4 Support power monitoring, overload warning, delayed start, and remote bit-by-bit on-off control.
Emergency Cooling	Available.
Environmental Monitoring	Temperature monitoring, detect water leakage condition.
Security measures	Optional mechanical lock/smart lock*** Standard micro switch detection cabinet door opening and closing.
Remote management	Possible through IP.
Real-time alarm	Optional text message/telephone voice.
Lighting Indications	Blue, white, and red tricolor lights for the front door. White LED lights for the rear door.
Fire Protection	Optional built-in gas fire protection, 3U.

Note: * Mentioned system size is without air induction component.

** Corresponding to the situation when 1 UPS and 1 battery module are installed in the cabinet.

*** Industrial models only support mechanical locks.

