Vertiv™ SmartCabinet™ ID

VS3750I ZCL07C - 42U, 7.0kW cooling capacity

VERTIV

Benefits

Fully integrate your critical IT deployment with robust solutions

- Fully sealed cabinet provides 24/7 protection from harsh environmental conditions that could damage IT equipment

- Completely assembled and tested in the factory, supplied with the appropriate condensing unit

- Integrated cooling unit takes up zero rack U-space, allowing for more IT installation

- Built-in HMI display with communication capabilities allows for local or remote monitoring and control

- Emergency backup fan ensures proper airflow and avoids overheating

- Multiple rack sizes and cooling capacity options provide flexibility for numerous applications

- Pre-integrated Power Management Block (PMB) provides power to cooling, HMI, sensors, and backup fans for easy onboard power integration

- Ensure high system availability with uninterrupted backup power with the compatible Vertiv™ Liebert® GXT5 UPS (sold separately)

- Integrate your IT deployment with intelligent rPDU's for constant monitoring and system availability (sold separately)

- Protect your investment with one of our warranty extensions and services specifically designed for integrated modular solutions

The Vertiv™ SmartCabinet™ ID all-in-one IT solution offers high efficiency environmental protection for demanding applications. With an IP54* rated cabinet, the SmartCabinet™ ID delivers complete system reliability and peace of mind.

Environmental Protection

With technology constantly evolving and pushing the edge of what's achievable, IT continually moves into places that it wasn't designed to be stored. From cluttered storage closets with minimal airflow, to industrial automation in factories, to fulfillment centers with autonomous robots, and even harsh medical environments, IT equipment is exposed to ambient conditions that could severely damage its life expectancy and reliability, proving catastrophic to your business operations.

Temperature fluctuations, dirt and dust presence, and a lack of humidity control are important concerns to be aware of when deploying essential IT equipment, especially in spaces that are less conditioned such as warehouses or manufacturing sites.

By utilizing the SmartCabinet ID, you can protect your most vital equipment from these harsh conditions with an IP54 rated cabinet, providing dirt and dust ingress protection as well as protection from humidity and even indoor sprinkler systems. Enable ideal operating conditions and temperatures for your most critical IT by deploying it inside the SmartCabinet ID!

Increased Security

When your business relies on constant availability, don't take any risks with data breaches. Secure your most valuable assets with electronic locks on both the front and rear doors of the SmartCabinet ID, ensuring your data remains safe at all times. The unit also comes standard with door alarms and notifications through on-board communication capabilities, allowing you to monitor and track unit access and further increasing the security of your IT deployment!

Maximized Rack Utilization

Space is at a premium these days, and rack space is no exception to that. Designed with maximized utilization in mind, the SmartCabinet ID has an integrated cooling solution and power management block that take up zero U-space in the rack, allowing for more IT equipment to be installed to keep your business running or supporting your plans for future expansion as your operations and IT requirements grow!

*IP54 - Ingress Protection class according to IEC 60529: Protection against dust (5) and splashing water (4)

Technical Specifications

Vertiv™ SmartCabinet™ ID — 42U, 3.5kW Cooling Capacity

SKU	Cabinet	VS3750I
	Condenser	ZCL07C
Size	Width	800 mm
	Depth	1200 mm
	Height	2000 mm
Load Rating	Static Load	1300 kg
	Dynamic Load	1000 kg
Ingress Protection Class according to IEC 60529		IP54
Rack unit space	Usable (total incl UPS)	37U (42U)

Cooling

Rated Cooling Capacity*	7.0 kW
Capacity Modulation Range	0 to 100%
Nominal Air Flow	1500 m³/h
Coefficient of Performance (COP), $W_{cooling}/W_{electrical}$	2.9
Sound Pressure (at 2m)	< 66 dB(A)

Condensing Unit

Size	Width x Depth x Height	990 mm x 355 mm x 1000 mm
	Weight	106 kg

Compatible UPS (sold separately)

Input Power	Voltage	230V, 1 phase, 50Hz
	Plug	without plug (hardwired to customer's electric switchboard)
	Cable length	5m outside of the cabinet (input on top)
Outlet Sockets	Number in total	8 (4 x C19, 4x C13)
	Number of free	8 (4 x C19, 4x C13)
	Used for PDUs	0 (hardwired PDU to UPS)

Compatible PDU (sold separately)

Total current		32A
Voltage		200 to 240 V
Frequency / Phase		50 Hz single phase
Height inside the Cabinet		1683mm
Outlet Sockets	Number in total	24
	Type	Combi C13/C19
Monitoring	Input Monitoring	Phase (A) Monitoring (kWh, W, VA, PF, V, A)
	Outlet Monitoring	Outlet Monitoring (kWh, W, VA, PF, V, A)
	Residual Current Metering	Phase (A)
	Circuit Monitoring	Circuit / Breaker Monitoring (A)
Residual Current Metering (RCM)	Type B	Yes

Environmental Specifications

Cabinet Temperature	0 to 45 °C
Evaporator Temperature	18 °C to 45 °C
Low Ambient Condensing Unit Temperature	-34 °C to 48 °C
Ambient Storage Temperature	-40 °C to 70 °C
Ambient Humidity	For Cabinet: 5% RH to 90% RH (no condensation). For Evaporator: 17% RH to 60% RH. For Storage: ≤ 95% RH at 40 °C
Altitude	1000m without derating. Contact Vertiv for derating up to < 3000 m