

Vertiv™ SmartCabinet™ ID

Fully sealed cooling solution for demanding environments



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
- 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*
- Integrate your IT deployment with intelligent rPDU's for constant monitoring and system availability*

*UPS and rPDU are not sold as part of the Vertiv SmartCabinet. They are sold separately and are field installed components.

The Vertiv™ SmartCabinet™ ID all-in-one IT solution offers high efficiency environmental protection for demanding applications. With an IP54 rated cabinet, the Vertiv™ 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 Vertiv™ 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 Vertiv™ 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 Vertiv™ 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 Vertiv™ 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!



Pictured: VS3750, 42U, 7.0kW

Technical Specifications

Vertiv™ SmartCabinet™ ID SKUs	VS3354	VS3350	VS3750	
W x D x H, mm (in)	800 x 1200 x 1200 (31.5 x 47.2 x 47.2)	800 x 1200 x 2000 (31.5 x 47.2 x 78.7)	800 x 1200 x 2000 (31.5 x 47.2 x 78.7)	
Weight (Rack & Evaporator), kg (lbs)	230 (507.1)	300 (661.4)	300 (661.4)	
Static load / Dynamic load, kg (lbs)	1300 (2866) / 1000 (2204.6)	1300 (2866) / 1000 (2204.6)	1300 (2866) / 1000 (2204.6)	
U-Space (Usable)	24U	42U	42U	
Display Screen	9" HMI	9" HMI	9" HMI	
Communication Protols	Web, SNMP (v1/v2)	Web, SNMP (v1/v2)	Web, SNMP (v1/v2)	
Environmental Sensors, std	(3) Temp/Humidity sensor, (2) Door sensors, (1) Leak Detection Sensor			
Evaporator Model	ZRC03U	ZRC03U	ZRC07U	
Rated Capacity, kW (kBtu/h)*	3.5 (11.9)	3.5 (11.9)	7 (23.9)	
Capacity Modulation Range	0 - 100%	0 - 100%	0 - 100%	
Nominal Airflow, m3/h (CFM)	750 (441.4)	750 (441.4)	1500 (882.9)	
Coefficient of Performance (COP), W/W	2.9	2.9	2.9	
Sound Pressure (at 2m), dB(A)	< 63	< 63	< 66	
Refrigerant Type	R410-A	R410-A	R410-A	
<i>*Net sensible cooling rated at 95F/24%RH Indoor, 95F Outdoor</i>				
Condensing Model, Standard	ZCC03U	ZCC03U	ZCC07U	
W x D x H, mm (in)	786 x 282 x 527 (30.9 x 11.1 x 20.7)	786 x 282 x 527 (30.9 x 11.1 x 20.7)	786 x 355 x 1000 (30.9 x 14 x 39.4)	
Weight, kg (lbs)	48 (105.8)	48 (105.8)	85 (187.4)	
Condensing Model, Low Ambient	ZCL03U	ZCL03U	ZCL07U	
W x D x H, mm (in)	1163 x 282 x 527 (45.8 x 11.1 x 20.7)	1163 x 282 x 527 (45.8 x 11.1 x 20.7)	990 x 355 x 1000 (39 x 14 x 39.4)	
Weight, kg (lbs)	68 (149.9)	68 (149.9)	106 (233.7)	
Electrical Specifications, Configuration A*	3kVA	6kVA	8kVA	10kVA
Power Supply**	208V, L6-30P	L+L+N+G, 208/230 VAC, 60Hz		
<i>*Configuration A - UPS provides power to both IT equipment and PMB</i>				
<i>** Power Supply based on using a Vertiv Liebert GXT5, sold separately</i>				
Electrical Specifications, Configuration B*	3kVA	6kVA	8kVA	10kVA
Power Supply, PMB	L1+L2+G, 208/230 VAC, 60Hz			
Power Supply, UPS**	208V, L6-30P	L+L+N+G, 208/230 VAC, 60Hz		
Overvoltage Category	Level 2			
<i>*Configuration B - UPS provides power to IT equipment only. PMB is powered separately.</i>				
<i>** Power Supply based on using a Vertiv Liebert GXT5, sold separately</i>				
Environmental Specifications				
Cabinet Temp, °C (°F)	0 to 45 (32 to 113)			
Evaporator Temp, °C (°F)	18 to 45 (64.4 to 113)			
Standard Condensing Unit Temp, °C (°F)	-15 to 48 (5 to 118)			
Low Ambient Condensing Unit Temp, °C (°F)	-35 to 48 (-31 to 118)			
Ambient Storage Temp, °C (°F)	-40 to 70 (-40 to 158)			
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 (104 F)			
Altitude	1000m (3280.8 ft) without derating. Contact Vertiv for derating up to < 3000 m (9842.5 ft).			
Agency				
Ingress Protection Rating	IP54 / NEMA 3			
EMC	FCC Part 15 Class A			
Safety	UL 2416 / CSA 60368-1			
Transport	ISTA 3B			
Warranty				
Standard	3-Year Factory Warranty			
Optional	Warranty Inspection (Start-Up) Extended Warranty (Parts Only or P&L) - up to 5 years PM Contracts - various response levels available			