SIEMON™

Cabinet Solutions

SIEMON™

WWW.SIEMON.COM

IT IS ALL ABOUT MAXIMIZING SPACE AND EFFICIENCY

Space utilization and efficiency are the most important considerations in a data center infrastructure. How will you fit everything you need today? What happens when you have more to add tomorrow? How can you keep equipment cool? What is the best way to achieve savings?

As equipment density grows, so does the volume of data and power cables in your cabinets. You need a way to accommodate this growth and do it in a way you can efficiently manage while supporting your specific needs.

Siemon offers a wide range of cabinet solutions to meet any application or configuration – from networking and storage, to servers and distribution points.

VERSAPOD®

VersaPOD cabinets leverage the vertical space between bayed cabinets and at the end of row for Zero-U patching, cable management and power distribution.

V800™

The V800 cabinet is ideal for high-density data center environments, enabling increased cabling and equipment density while providing excellent accessibility and thermal efficiency.

V600™

Versatile, cost-effective and feature-rich, the V600 cabinet is the ideal server rack for data center roll-outs.

AISLE CONTAINMENT

Thermal management is available for VersaPOD, V800 and V600 cabinets, including a full line of hot and cold aisle containment solutions.

WALL MOUNT

Designed with excellent cable management, easy rear access and a fully adjustable mounting rail system, the Wall Mount Cabinet is versatile for a wide range of applications.

V-BUILT™

V-Built Preconfigured Data Center Cabinets come preloaded with Siemon components, customized to meet specific applications and configurations.

SIEMON™

VersaPOD® with Shared Zero-U Space for Cable Management, Patching and Power Distribution

Zero-U Patching Benefits

Getting cable out of the cabinet's heavily congested equipment mounting space and into high-capacity vertical cabling zones drives benefits across your data center infrastructure.

DENSITY – VersaPOD's extra vertical space gives you the room to deploy ultra high-density data center infrastructures without sacrificing proper cable management and the overall organization and appearance of the facility.

SCALABILITY – The high capacity of VersaPOD's Zero-U cable management frees space needed to mount future networking equipment without the need to add more cabinets and consume valuable data center floor space.

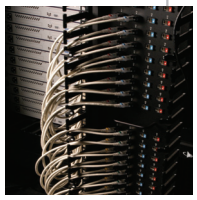
FLEXIBILITY – VersaPOD's wide variety of cable routing options enable routing cables from cabinet to cabinet to support nearly any data center configuration, giving you the flexibility to design an infrastructure to fit your needs instead of working around the space limitations and cable management constraints of traditional cabinets.

ACCESSIBILITY – With your cabling channels in their own dedicated space between the cabinets, you can perform ongoing moves, adds and changes and gain unobstructed access to your equipment - less time in the cabinets and more on your strategic goals.

THERMAL EFFICIENCY – The ability to move cables away from the equipment cooling fans, high air-flow doors and optional thermal management accessories maximize thermal efficiency without sacrificing equipment and cabling density.

CEA 310-E Adjustable Mounting Rail

Half Height Side Panels



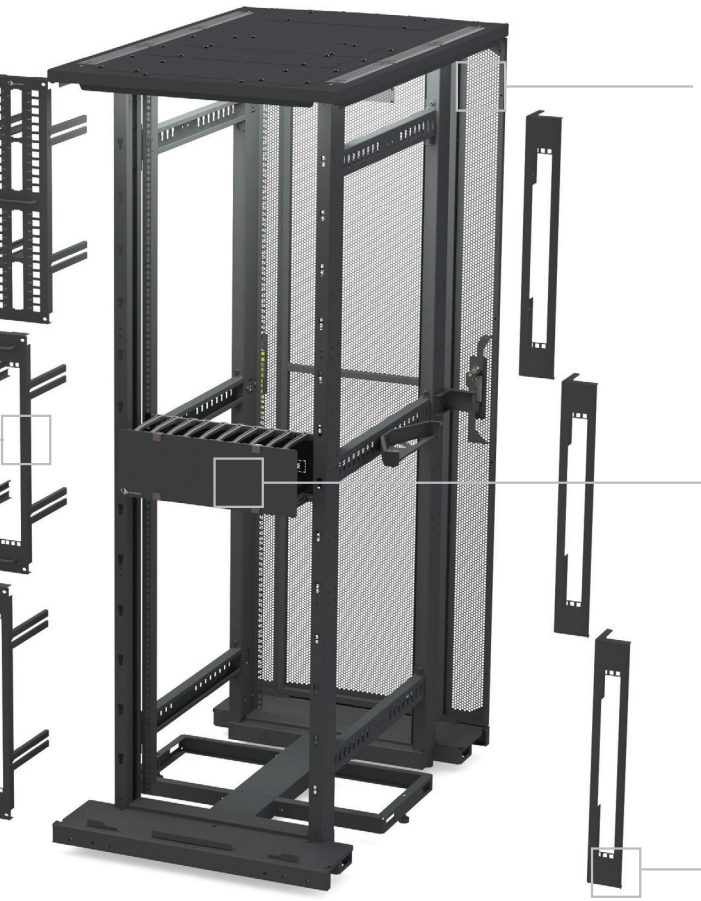
Zero-U Vertical Patch Panels
Cable management or PDU mounting between bayed cabinets

Recessed Corner Posts
Allow cables to be routed between cabinets

Note: VersaPod is available in white, gray or black

SIEMON™

VersaPOD®



150mm (6 in.) of clearance between doors and frame

High-Capacity Horizontal Cable Managers

End-of-Row Vertical Patch Panels

SHORTER CORDS AND JUMPERS – Zero-U patch panels put patching ports right beside equipment ports – reducing the need for more expensive, longer cords. Shorter cords with less cable slack improves air flow, aesthetics and simplifies channel tracing.

MORE DESIGN OPTIONS – With your patching fields maintained in VersaPOD's zero-U vertical space, you can decrease or even eliminate the use of patch panels in traditional 19 inch horizontal mounting space freeing this space for additional networking and storage equipment options.

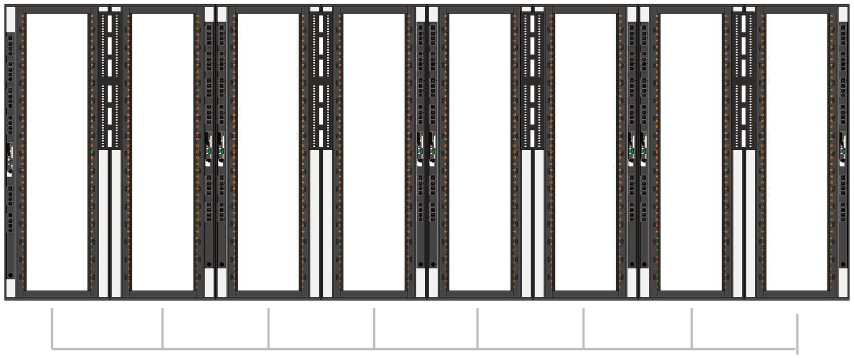
SCALABILITY – Supporting up to 1152 copper and 1728 fiber patching ports between every 2 cabinets and at both ends of each row, VersaPOD provides ample patching capacity for future expansion – without labor-intensive re-design or additional cabinets.

INTELLIGENT PDUs BENEFITS – Siemon's line of rack-mount and vertical PowerMax™ intelligent PDUs provide valuable energy consumption data while reliably delivering power to critical IT equipment. The PowerMax PDU family delivers real-time power information with varying degrees of intelligent functionality ranging from basic and metered units to full-featured managed PDUs. Siemon's PDUs can be mounted in VersaPOD's zero-U space for orderly routing and management of power cords.

PowerMax™

VersaPOD® Shared Zero-U Space Savings

Deploying fewer Siemon VersaPOD cabinets instead of standard 600mm server cabinets within the same footprint allocates more power per cabinet to support more servers without sacrificing floor space. Compared to 600mm server cabinets, the VersaPOD's ability to share connectivity, patching and PDUs in the shared zero-U space between bayed cabinets reduces stranded power outlets by 75% and results in a 46% savings due to fewer cabinets, PDUs and patch panels and the ability to use shorter patch cords.



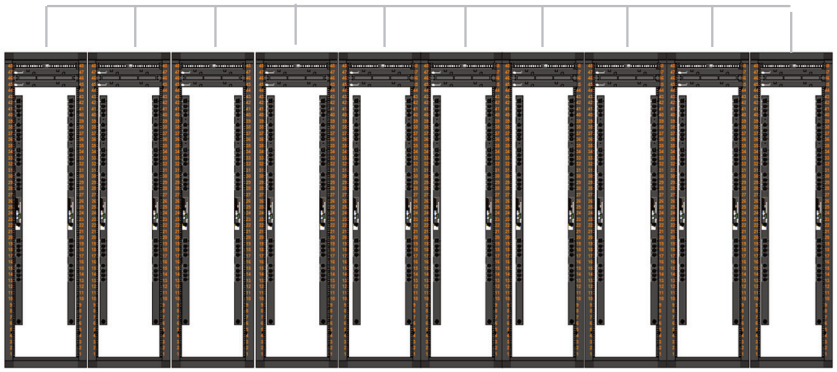
8 VERSAPOD CABINETS AT 6.25KW = 50KW

$81,000

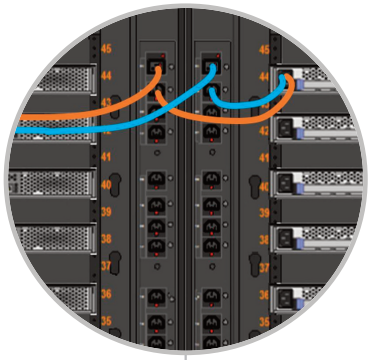
VS

$150,000

10 STANDARD 600MM CABINETS AT 5KW = 50KW

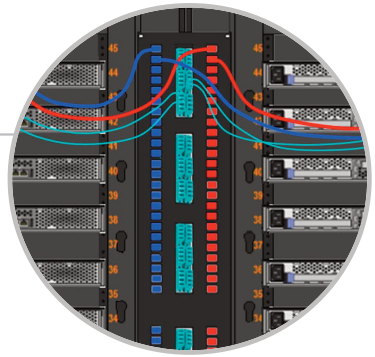


SIEMON™



SHARED PDUs BETWEEN BAYED CABINETS

- Cuts the number of PDUs and upstream power connections in half
- Reduces stranded power outlets by up to 75%
- Improves Power Usage Effectiveness (PUE)



SHARED PATCHING BETWEEN BAYED CABINETS

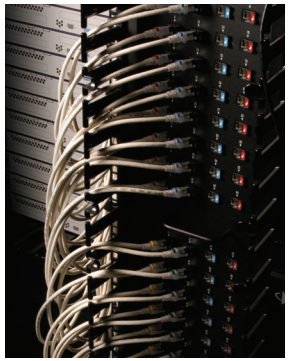
- Cuts the number of copper and fiber patch panels in half
- Saves 40% on patch cords by enabling shorter 1-meter connections
- Eliminates horizontal cable managers
- Frees up equipment mounting space

www.siemon.com/versapod

VersaPOD® Accessories

CABLE MANAGEMENT

- A wide range of zero-U vertical cable management fingers, patching channels and trays to help manage, secure and facilitate routing of copper and fiber jumpers between patching fields and manage cable between cabinets.
- End-of-row solutions for managing cords at the end of a cabinet row.
- D-rings, hook-and-loop and fiber spool managers for installing in the vertical cable management trays.
- Hinged covers used with the vertical cable management conceal the zero-U space.



PATCHING

- VersaPOD zero-U sliding vertical patch panels mounted vertically in the space between bayed cabinets move fiber and copper patching out of the horizontal cabinet space.
- Mounts up to 3U of standard 19-inch patch panels in a vertical position, or accommodates up to 48 ports of Siemon MAX®, Z-MAX®, or TERA® copper outlets and MAX fiber outlets, as well as RIC adapter plates and plug and play modules.
- End of row panels for mounting 2U of standard 19-inch panels at the end of a cabinet row.

PDU MOUNTING

- VersaPOD front-facing single PDU mounting brackets for mounting one full-height, front-facing PDU in the zero-U space or at the end of the row.
- Front-facing dual PDU mounting bracket for mounting two front-facing PDUs in full height zero-U spaces only.
- Side-facing dual PDU bracket can be used at either end of row or in the zero-U space between bayed cabinets for mounting two side-facing PDUs.

ACCESSORIES

- VersaPOD accessories are available in white, gray or black.
- Zero-U and end of row blanking panels block off unused spaces to prevent re-circulation of air.
- Adjustable depth zero-U horizontal cable trough extra space mounted between vertical patching channels routes cables from front to rear of the cabinets.
- A lid divider panel creates cable pathways across the top of bayed VersaPOD cabinets.
- A variety of other accessories are available for all cabinets, including shelves, brush guard panels, thermal blanking panels, grounding kits and fans (see page 10).

SIEMON™

SidePOD™ and Baffle

SIDEPOD – with two vented doors adds 140mm (5.5 in.) width to the end of row

END OF ROW CAPACITY
Increases with SidePOD so full size zero-U patch panels and cable managers can be used

REVERSIBLE BAFFLE DESIGN
Baffles can be installed in either orientation to properly route either cold air input or hot air exhaust. Two angled baffles may be nested 180° to each other in the same Zero-U space allowing two side-vented switches to be mounted next to each other

INTEGRATED BRUSH GUARDS
Multiple integrated brush guards provide cable access to the zero-U space from overhead distribution systems

ZERO-U MODULARITY
Ensures that with a baffle installed, the balance of zero-U space can be fully utilized for patching or cable management

SHARED USE OF SIDE PANELS
The SidePOD is compatible with side panels allowing them to be transitioned to the SidePOD when added to end of row installations

Siemon's SidePOD and Baffle solution is designed to support side-to-side ventilated active equipment. Available in white, gray or black, SidePOD is an option for use with Siemon's 1200mm (48 in.) deep VersaPOD cabinets and creates the necessary clearance for proper airflow to the switch. The baffles are used to properly route cold air from the front of the cabinet to the input side of the switch as well as route exhaust from the output side of the switch to be vented in the hot aisle. In addition to providing a cooling platform, the SidePOD also allows full size zero-U panels to be used in end-of-row applications. This includes up to 12U of vertical patching and high capacity vertical cable management with hinged covers.

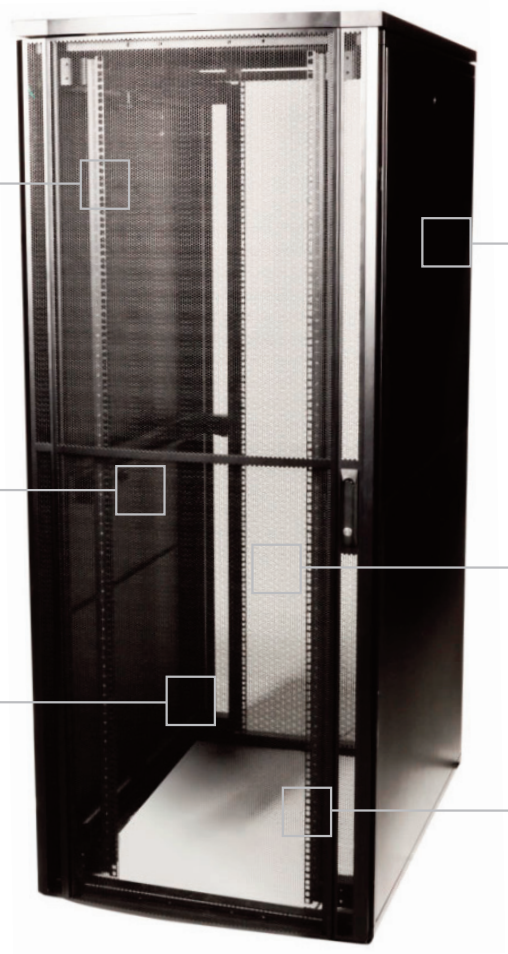
V800™

Siemon's self-contained V800 cabinets provide a robust, cost-effective enclosure solution that offers valuable zero-U space on each side of the equipment rails for cable management, PDU mounting, airflow management or connectivity on both the front and rear of the cabinet. Available in white, gray, or black, the V800 cabinet is ideal for high-density data center environments, increasing cabling and equipment density while maintaining excellent cable management accessibility and thermal efficiency.

LIGHT WEIGHT STABILITY
Design provides an extremely stable, high-capacity cabinet without excessive weight.

ZERO-U MODULARITY
Half-height zero-U panels can be mounted in any of the four quadrants (top left, bottom left, top right and bottom right) of both the front and rear of the cabinet for up to 384 ports.

FULL ACCESSIBILITY DOORS
Quick release, field reversible single piece front and split rear doors.



INTEGRATED SIDE PANEL GROUNDING
Spring loaded grounding clips eliminate need for dedicated grounding conductors.

HIGH AIR – FLOW DOORS
Contoured high density perforated door provides up to 71% perforation exceeding major IT equipment air flow requirements.

FULLY ADJUSTABLE EQUIPMENT RAILS
Can be readily configured to support any range of equipment depths.

V800™, V600™ and Common Cabinet Accessories

V800 ZERO-U ACCESSORIES

- Half-height zero-U vertical patching channels with fingers or D-ring managers and covers.
- Half-height zero-u patch panels mount up to 2U of standard 19-inch patch panels in the vertical position.
- Half-height zero-U brush guard and blanking panels prevent re-circulation of air for maximum efficiency.
- Full-height vertical PDU brackets enable tool-less mounting of one vertical PDU in the V800 zero-U space.
- Extra equipment mounting rails are available.

V600/V800 TRAYS AND ACESSORIES

- Available in multiple sizes, Vertical Cable Trays are easily mounted at any location along the front-to-rear cabinet rails of the V600 and V800 cabinets and feature keyholes for PDU mounting.
- T-shaped cutouts in the tray can be used for cable-tie attachment cable management and cage nut openings can be used for mounting additional accessories such as ¼-turn cable managers.
- Casters for mobility, as well as lid divider panels for creating cable pathways across rows of cabinets are also available for V600 and V800 cabinets.

THERMAL MANAGEMENT

- 19-inch SnapFit™ thermal blanking panels are easily snapped into place without tools for preventing airflow through vacant rack unit spaces.
- 19-inch rack-mount brush panels, as well as brush guards for top cabinet panels prevent air flow through openings while still enabling cable pass through.
- Top-mount cooling fans are available for use with any cabinet.

OTHER ACCESSORIES

- Grounding kits with ground bar, wire and mounting hardware for connecting cabinets to the building's telecommunications grounding system.
- 4-post adjustable vented shelves to support a variety of in-cabinet equipment.
- Cabinet security solutions to prevent unauthorized access to cabinets housing mission critical networking equipment.

V600™

The V600 cabinet provides a robust, cost-effective enclosure solution that is ideal for use in conjunction with VersaPOD® and V800™ cabinets. Fully adjustable front to back equipment rails combined with several options of vertical PDU rails and cable management accessories makes the V600 one of the most versatile, cost-effective, feature rich solutions available. The V600 and its accessories are also available in white, gray or black.

LIGHTWEIGHT STABILITY
Design provides an extremely stable, high-capacity cabinet without excessive weight.

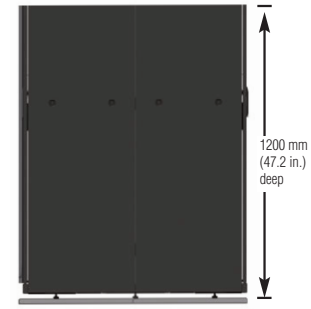
ENHANCED SIDE ACCESS
Split level side panels provide convenient access to installed equipment.

HIGH AIR – FLOW DOORS
Contoured high density perforated door provides up to 71% perforation exceeding major IT equipment air flow requirements.

INTEGRATED SIDE PANEL GROUNDING
Spring loaded grounding clips eliminate need for dedicated grounding conductors.

Fully adjustable mounting rails can be readily configured to support any range of equipment depths doors.

TOP VIEW



The V600 cabinet is exactly 1200mm (47.2 in.) deep, allowing for full access to adjacent tiles immediately in front or in back of placed cabinets.

SIEMON™

Wall Mount Cabinet

Siemon's feature-rich Wall Mount Cabinet saves valuable floor space while providing a cost-effective means to secure and protect network equipment from dust, tampering, and other hazards. Designed with excellent cable management, easy rear access and a fully adjustable mounting rail system, the Wall Mount Cabinet is extremely versatile for a wide range of applications.

It is ideal as a mini telecommunications room or for remote network distribution and consolidation points in open, unprotected spaces such as warehouses, retail facilities and schools. This EIA/ECA and UL 60950-compliant Wall Mount Cabinet is also ideal for zone cabling in intelligent building applications, passive optical networks, or wherever more expensive full-size cabinets are not required. It is compatible with Siemon VersaPOD® fan kits, rack-mount PDUs, shelves and other accessories.

Features

CABLE MANAGEMENT
Fully integrated vertical cable management at the front and rear.

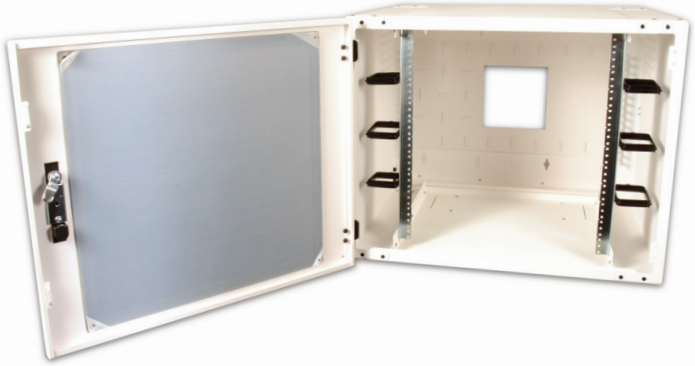
STURDINESS
14/16 gauge steel design supports up to (91kg) 200 lb. load capacity per UL 60950.

SECURE
Plexi, solid or vented locking front door with swivel handle and rear locking back plate. Front door can be either left or right hinged.

REAR ACCESS
127x127mm (5x5 in.) rear entry opening available to support in-wall cabling.

ADJUSTABILITY
Fully adjustable EIA compliant mounting rail system with #12-24 tapped holes.

MULTIPLE SIZES AND COLORS
Heights: 12U, 18U, 24U
Depths: 610mm and 762mm (24 in. and 30 in.)
Width: 736mm (29 in.)
Available in white, gray or black.



V-Built

Part of Siemon's WheelHouse™ Advanced Data Center Solutions, V-Built Preconfigured Cabinets are available with Siemon VersaPOD®, V800™, V600™ and Wall Mount Cabinets. V-Built Preconfigured Cabinets are delivered preloaded with Siemon components, including fiber and copper connectivity, preterminated cable assemblies, PDUs, cable management and accessories. Identified by one customer-specific part number and price, these preloaded cabinets are assembled and packaged at regional Siemon manufacturing facilities and delivered to the site ready to connect the cabling and install active equipment.

Ideal for high performance computing and colocation data centers using modular, repeatable pods or customers seeking consistency across multiple locations, V-Built Preconfigured Cabinets are configured via a collaborative design process between the customer and Siemon Data Center Design Services.

V-Built Benefits

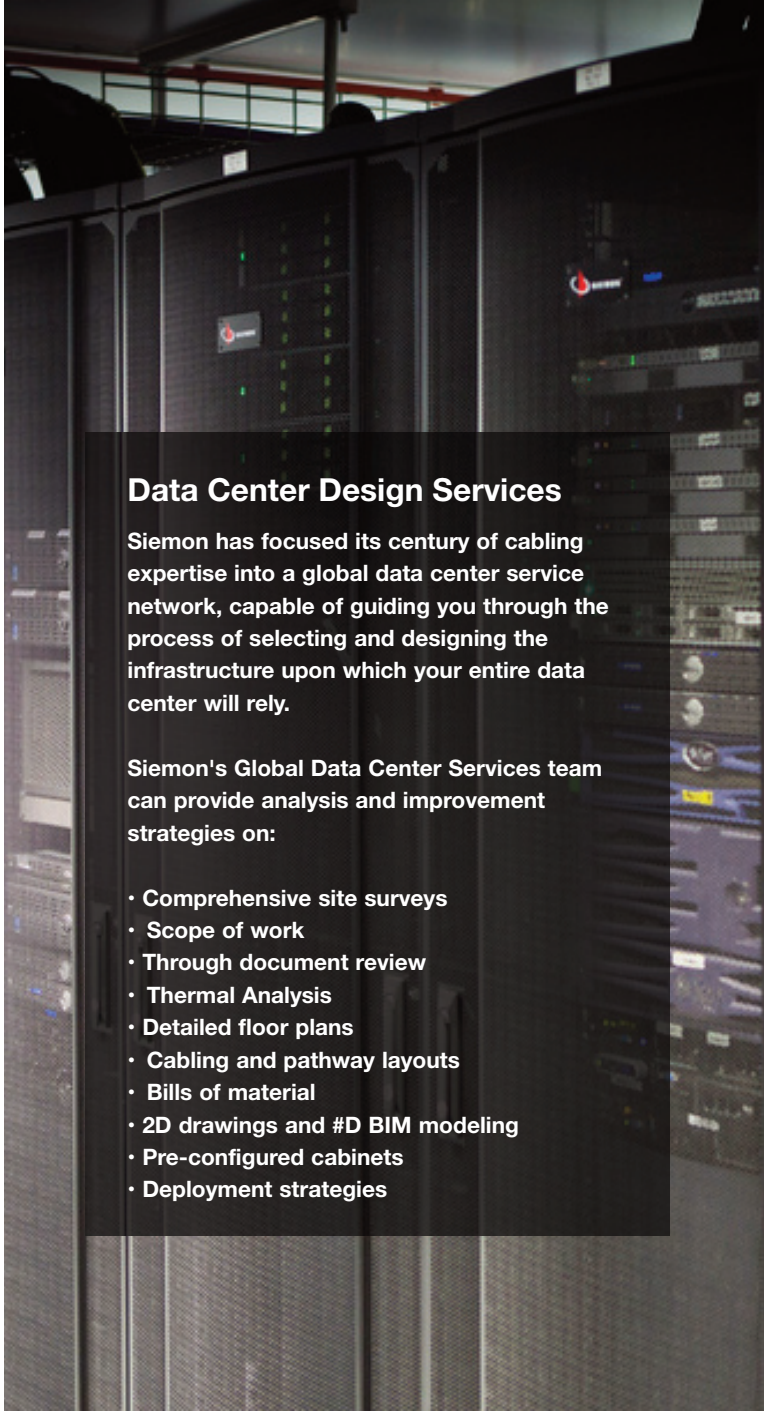
EFFECTIVE - Reduces data center deployment time and labor by up to 30%*

CONVENIENT - Simple one part number ordering and price and easy cabinet, row or pod replication for today's modular and multi-site data centers

FLEXIBLE - Improved scalability and consistency via predictable BOM, costs and processes

ECO-FRIENDLY - Supports green initiatives and sustainability with less on-site packaging waste and lower carbon footprint

*Based on documentation development, movement and staging of materials, opening and mounting components, and recycling and disposal of packaging.



Data Center Design Services

Siemon has focused its century of cabling expertise into a global data center service network, capable of guiding you through the process of selecting and designing the infrastructure upon which your entire data center will rely.

Siemon's Global Data Center Services team can provide analysis and improvement strategies on:

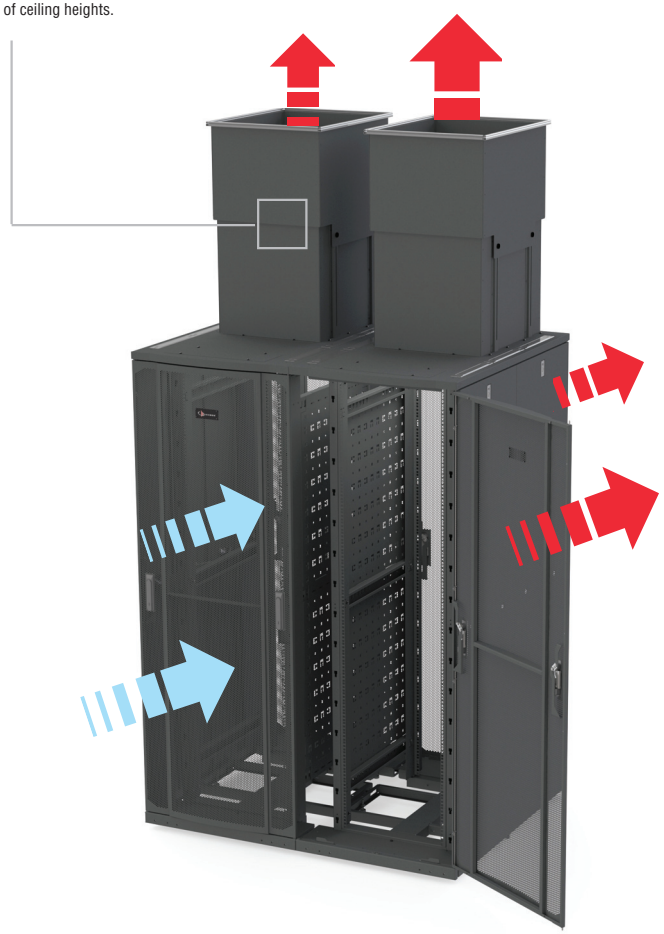
- **Comprehensive site surveys**
- **Scope of work**
- **Through document review**
- **Thermal Analysis**
- **Detailed floor plans**
- **Cabling and pathway layouts**
- **Bills of material**
- **2D drawings and #D BIM modeling**
- **Pre-configured cabinets**
- **Deployment strategies**

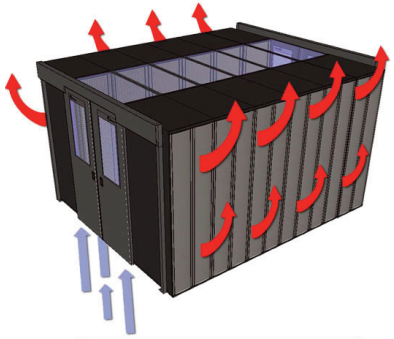
SIEMON™

Efficiency & Thermal Management Solutions

With energy costs continuing to rise, Siemon's cabinet solutions are designed with features and accessories that control air flow to maximize thermal management and efficiency without sacrificing equipment and cabling density.

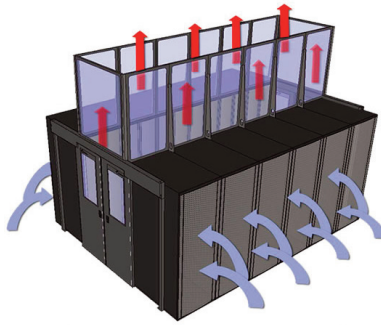
VERTICAL EXHAUST DUCT (Chimney)
Passively directs the hot exhaust heat from active equipment vertically into the return air space to increase HVAC efficiency. Can be field extended to a range of ceiling heights.





Cold Aisle Containment

AISLE CONTAINMENT SYSTEMS
Are available in cold aisle containment (CAC) and hot aisle containment (HAC) with roof or vertical panels that can be easily attached to Siemon VersaPOD®, V800™ and V600™ cabinets in a pod configuration to improve thermal efficiency and optimize the cooling capacity of a data center.



Hot Aisle Containment

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice

Worldwide Headquarters
North America
Watertown, CT USA
Phone (1) 860 945 4200

Regional Headquarters
Europe Russia Africa
Chertsy, Surrey, England
Phone (44) 0 1932 571771

Regional Headquarters
China
Shanghai, P.R. China
Phone (86) 215385 0303

Regional Headquarters
Latin America
Bogota, Colombia
Phone (571) 657 1950/51/52

Regional Headquarters
India Middle East
Dubai, United Arab Emirates
Phone (971) 4 3689743

Regional Headquarters
Asia Pacific
Sydney, Australia
Phone (86) 21 5385 0303

India Headquarters
Rd No.1, Banjara hills, Hyderabad
Phone: (+91) 40 6644 5562
Email: info_india@siemon.com

Siemon Interconnect Solutions
Watertown, CT USA
Phone (1) 860 945 4213 US
www.siemon.com/SIS

WWW.SIEMON.COM