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*Server Racks*

*Aisle Containment*

# SERVER RACK & AISLE CONTAINMENT SOLUTIONS

Brochure

# ArcTiv Technologies
## Data Center Solutions

YOUR DATA CENTER & IT SOLUTIONS PARTNER

**ARCTIV™**
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ArcTiv Technologies is a global data center & IT solutions provider delivering high-performance products to Power, Protect, Cool and Connect your critical network infrastructure.  We deliver customized, turnkey solutions to meet your data center and edge-computing application needs.

Find out more about our products and consulting services by contacting your local representative or visiting our website at:

www.arctiv-tech.com

## Key Data Center Applications

### Cloud / Hyperscale
Large public & private data centers require high-density rack, power & cooling management systems to minimize PUE and total footprint while providing continuous, clean power.

### Co-Locations
Colo providers offer rack, power, cooling and access control solutions to allow their tenants to remotely monitor their IT equipment, reducing the need for on-site system maintenance.

### Service Providers
ISP's can increase revenue and customer experience by investing in greater bandwidth and minimizing downtime by improving power system and network reliability.

## Data Center Product Line

### Power

**UPS & ATS**
Clean power with remote monitoring

**Intelligent PDU's**
Remote monitoring & control of servers

### Protect

**Server Racks**
Secure your network with high air-flow systems

**Access Control**
Remote protection for access & system alerts

### Cool

**Aisle Containment**
Automatic operation for max. cooling efficiency

**In-Row Cooling**
Cooling system for server room retrofits

### Connect

**DCIM**
Management of power & environment

**IP-Based KVM's**
Remote access of servers & networking devices

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# Server Racks & Aisle Containment
## Key Features

### Save Time. Save Money. Reduce Risk.

ArcTiv Server Racks & Aisle Containment Systems offer greater capacity and high-density cable & airflow solutions to manage critical IT systems.

## Save Time

Intuitive designs are easy to install and can ship pre-configured with rack accessories.



**Easy PDU Mounting**
Tool-less installation for 0U PDU's



**Fully Configured Enclosures**
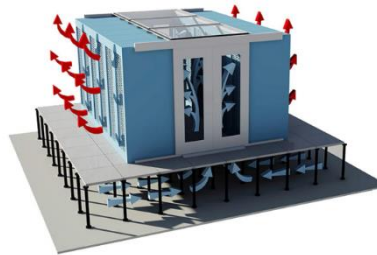Save time with pre-installed rack options



**Simple Installation**
Modular components are easy to install and configure

## Save Money

Flexible designs efficiently support both new data center construction and retrofitted server rooms.



52U

**Minimize Floorspace**
Greater capacity, up to 52U per rack



**Lower Cooling Costs**
Hot & cold aisle containment reduce system cooling costs



**Retrofit Server Rooms**
Reduce investment using current building room capacity

## Reduce Risk

Intuitive design is simple to configure and install PDU's & accessories.



**Turnkey Systems**
Rack systems are fully compatible & ship together



1500kg

**High Load Capacity**
1500kg static load rating and seismic rack options



**Electronic Door & Locks**
Automatic, locking aisle doors securely protect your network

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# Server Racks
## Product Line Overview

ArcTiv Server Racks offer greater capacity, load rating and cable & airflow accessories to manage your critical IT systems. The Server Racks are compatible with ArcTiv Aisle Containment and PDU's for fast installation and reliable operation. Each rack supports:

- High density vertical cable management for CAT5, fiber and power cables.
- Options to configure mounting rails, PDU's, doors, side panels, cable management and airflow management solutions

### Benefits

| | |
|---|---|
| Load Rating | 1500kg load rating suitable for large IT equipment |
| Reliable | Fully-assembled, semi-welded frame provides greater support |
| Security | Locking doors and side panels prevent unauthorized access |
| Organization | High-density cable management for organizing network & power cables |
| Attractive | Curved-door design for data centers or office applications |
| Access | Equipment access via removable side panels for simplified maintenance |
| Airflow | High-capacity fans and +75% perforated doors |
| Flexible | Locking castors and mounting feet can easily transport. |
| Capacity | Up to 52U options per rack at rated load |

*Front View*

C E

*Rear View*

| Easy Operation | Greater Organization | Greater Airflow |
|---|---|---|
| | | +80% |
| Split Side Panels | Tool-less PDU Mounting | High Airflow Doors |
| Castors & Leveling Feet | Vertical Cable Management | Top-Roof with Fans |

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# Server Racks
## Specification and Ordering Information

## Specifications

### Standard Options

| Standard Options | |
|---|---|
| Rack Heights (RMU) | 24, 42, 45, 48, 52 |
| Rack Widths (mm) | 600, 750, 800 |
| Rack Depths (mm) | 800, 1070, 1170, 1200 |
| Load Rating (kg) | 1500 |

### Custom Options

| Custom Options | |
|---|---|
| Locking | Electronic, Combo |
| Colors | White, Gray |
| Load Rating | 1000 |
| Dimensions | H, W, D |
| Packaging | Knock-Down |

## Ordering Information:

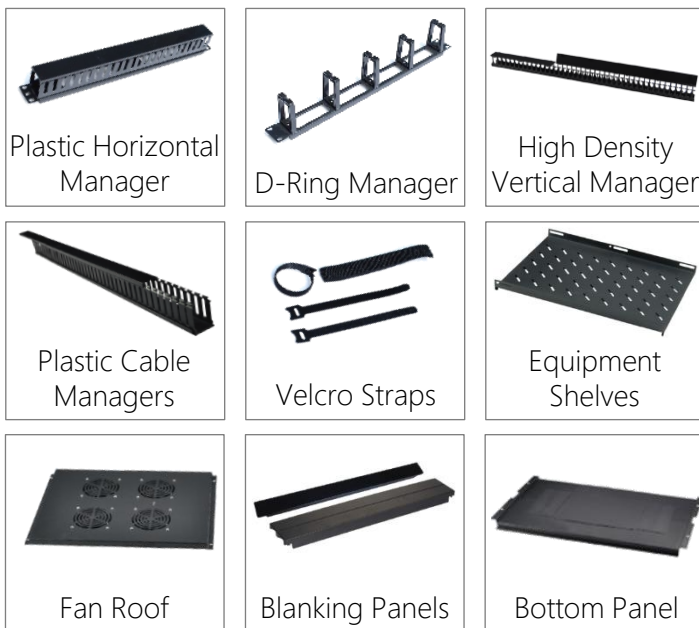| ATSVR | [W] | [D] | [H] | -[C] |
|---|---|---|---|---|
| Server Rack | Width | Depth | Height | Custom |
| | 6 = 600<br>7 = 750<br>8 = 800 | 8 = 800<br>1 = 1070<br>11 = 1170<br>12 = 1200 | 24 = 24U<br>42 = 42U<br>45 = 45U<br>48 = 48U<br>52 = 52U | |

*Examples:*

**ATSVR6142** = 42U x 600mmW x 1070mmD, 1500kg

**ATSVR81252-C** = 52U x 800mmW x 1200mmD, 1500kg, Custom

## Standard Server Racks Include:

- Semi-welded frame
- Vented front door
- Split, rear vented doors
- Locking swing handles (front & rear)
- Vented top panel with cable entry access
- 4 x locking and removable split side panels
- 4 x EIA adjustable mounting rails

- 2 x rear mounting brackets
- 4 x heavy duty castors and leveling feet
- Pack of 50 M6 screws and cage nuts
- Black powder coat paint (RAL9005)
- Pallet (assembled)
- 1-Year manufacturer's warranty

## Rack Accessories (Ordered Separately)


Plastic Horizontal Manager


D-Ring Manager


High Density Vertical Manager


Plastic Cable Managers


Velcro Straps


Equipment Shelves


Fan Roof


Blanking Panels


Bottom Panel

*On large orders, accessories can be factory-installed*

| | Part No | Description |
|---|---|---|
| CABLE MMGMT | ATPCABLEDUCT1U | Plastic Horizontal Cable Manager, 1U |
| | ATPCABLERING1U | Horizontal D-Ring Manager, 1U |
| | ATVELCRO | Velcro Straps |
| | ATSRHDVCM42 | High Density Vertical Cable Manager |
| | ATVCM421U | Vertical Cable Manager (42U, 1U) |
| | ATVCM422U | Vertical Cable Manager (42U, 2U) |
| AIRFLOW | ATSRFROOF68 | Fan Roof (4, 600mmW, 800mmD) |
| | ATSRFROOF61 | Fan Roof (6, 600mmW, 1000mmD) |
| | ATSRFROOF88 | Fan Roof (6, 800mmW, 800mmD) |
| | ATSRFROOF81 | Fan Roof (6, 800mmW, 1000mmD) |
| | ATSRBPANEL68 | Bottom Panel (600mmW, 800mmD) |
| | ATSRBPANEL61 | Bottom Panel (600mmW, 1000mmD) |
| | ATSRBPANEL88 | Bottom Panel (800mmW, 800mmD) |
| | ATSRBPANEL81 | Bottom Panel (800mmW, 1000mmD) |
| | ATP2UPANELB | Plastic Tool-less Blanking Panel (2U) |
| OTHER | ATSHELF4P-550 | Fixed Shelf, 550mmD |
| | ATSSHELF-550 | Sliding Shelf, 550mmD |

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# Aisle Containment
## Product Line Overview



ArcTiv Aisle Containment Systems are modular, row-based thermal containment solutions, which separates cold and hot air from equipment to the data center. They manage airflow at the source, increasing cooling efficiency while decreasing operating costs.

The primary components of the aisle containment solutions have modular designs, proving quick on-site deployment and address changing needs or future expansion with pay-as-you grow architecture. Standard options include:

- Hot aisle or cold aisle containment
- Automatic or manual doors with key or electronic locking
- Fixed or telescopic chimneys

### Benefits

| | |
|---|---|
| **Load Rating** | Compatible with 1500kg Server Racks |
| **Load Rating** | Automatic top panel operation for emergency fire suppression |
| **Reliable** | Electronic locking system with 3-in-1 access control |
| **Security** | Compatible with high-density cable management & air accessories |
| **Organization** | Attractive design for server rooms or data center environments |
| **Attractive** | Automatic or manual sliding doors |
| **Access** | Supports in-row cooling and under-floor ventilation |
| **Airflow** | Modular design which is easily adjustable for future expansion |
| **Flexible** | Supports common rack heights including 52U models |

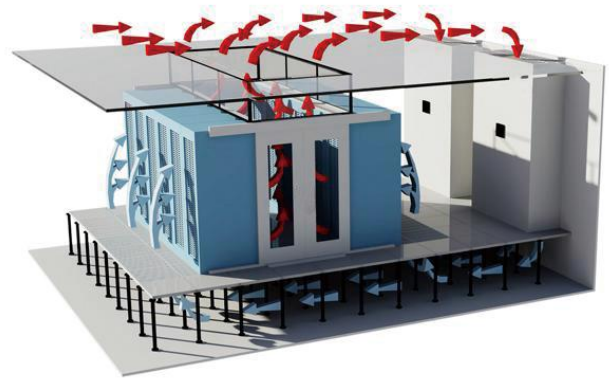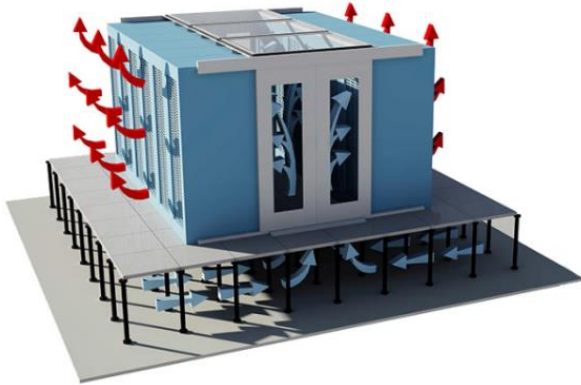| Automatic Operation | Modular Design | Greater Efficiency |
|---|---|---|
|  |  |  |
| Automatic Doors & Fire Protection | Modular Components | Telescopic Chimneys |

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# Aisle Containment
## Application Overview and Specification

## Application Overview

Data centers commonly use raised floors and/or chimneys to recirculate controlled air to isolate hot & cold air while also provide underfloor pathways for cabling.  The benefits of these topologies are greater system efficiency and adjustable configuration but require a building-level cooling system along with raised floors.

| Cold-Aisle Containment | Hot-Aisle Containment |
|---|---|
| • Sliding or manual doors<br>• Automated top panels (fire suppression)<br>• Hot-air telescopic chimneys (not shown)<br>• Underfloor or in-row cooling | • Sliding or Manual doors<br>• Hot-air aisle recirculation<br>• Hot-aisle chimney |

## Key Application Considerations

- Building or room-level cooling capacity and efficiency
- Hot-air chimney or open-air recirculation
- Seismic stability of raised floor
- Current and future power of IT equipment

## Specifications

| Product | Operation | Configuration |
|---|---|---|
| Aisle Doors | | |
| Dual Mechanical Doors | Manual | 5mm glass, with TCP/IP door access locking system |
| | Automatic | 5mm glass, with door closing device |
| Sliding Doors | Manual | 8mm glass, with built-in handle |
| | Automatic | 8mm glass, with door closing device |
| | Automatic | 8mm glass, with TCP/IP door access locking system |
| Row Containment | | |
| Containment Kit | | Includes Server Racks |
| Modular Ceiling | Rotational | Includes rotary ceiling, external decoration panel and fixed plate |
| | Fixed Plate | Includes fixed ceiling, external decoration panel and fixed plate |
| Top Cabling Accessories | | |
| Shielding Trough | | Supports 600 and 800mmW Server Racks |
| Shielding Partition | | Supports 600 and 800mmW Server Racks |

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