

Data Center Power and Cooling

With power costs continuing to rise, the ability to maximize a data center’s energy efficiency has rapidly become one of the most critical considerations for network infrastructure professionals. To meet this growing challenge, Siemon has developed a solution set that addresses energy efficiency from two key angles — cooling and power distribution:

- **IcePack™ Cooling Door System** — High-efficiency liquid-cooled solution for supplemental data center cooling. Provides cooling capacity up to 31kW per cabinet, while consuming up to 80% less energy than other cooling products
- **Intelligent Power Distribution Units** — Ranging from metered units to full-featured, networked versions, Siemon’s Intelligent PDUs provide an easily-implemented means to monitor power usage at the equipment level, helping to manage capacity, spot problems and reduce energy costs

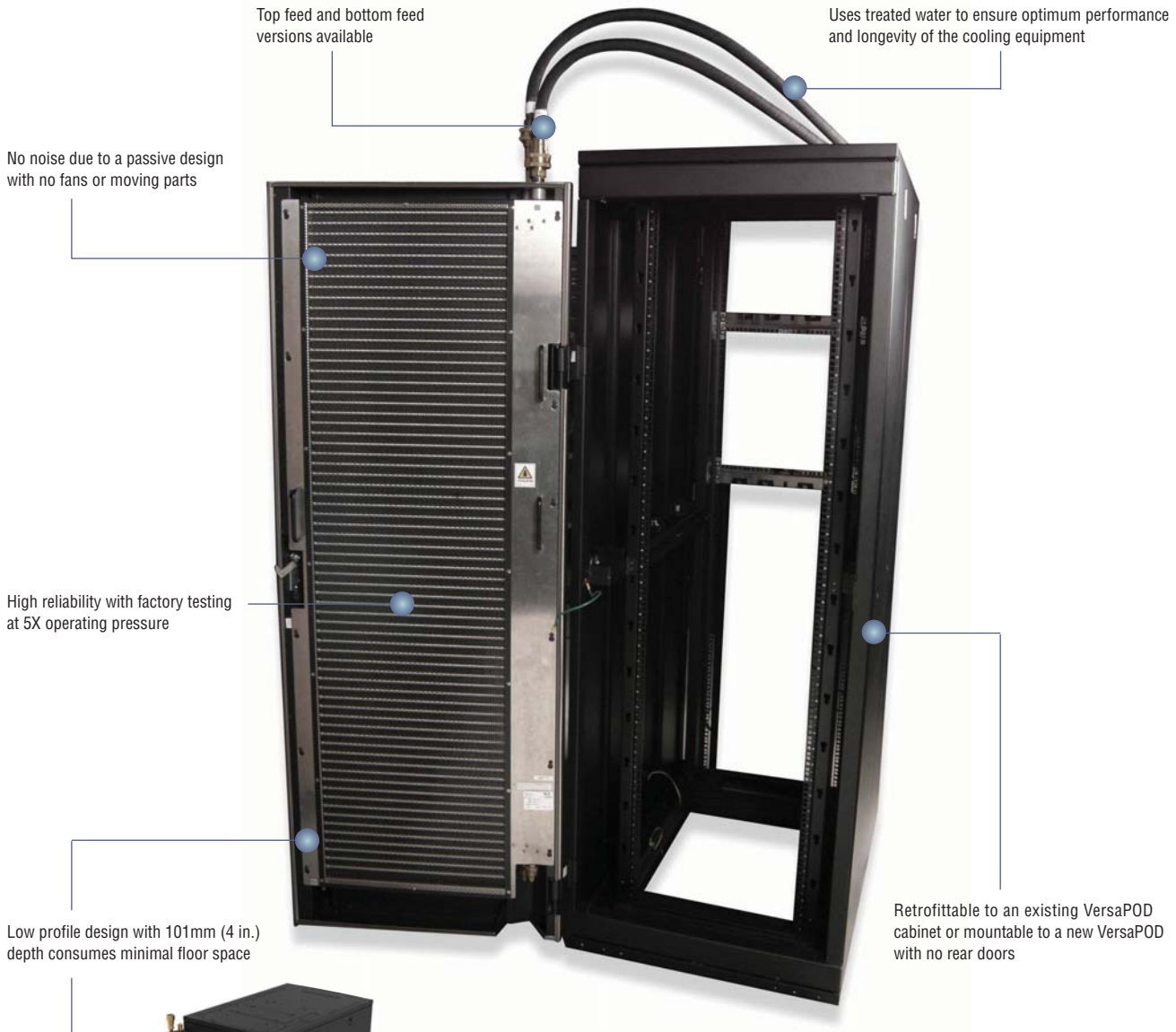
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IcePack™ Cooling Door

The IcePack Cooling Door is a heat exchanger that uses passive liquid cooling technology. It replaces the standard rear doors on the VersaPOD and V600 1200mm (48 in.) cabinets and functions by close-coupling a specialized fin-and-tube coil array to the equipment heat exhaust. The IcePack door is protected by two 79% open perforated sheets to maintain airflow through the cabinet.



Ordering Information:

RX-VP1A-BR.....	For VersaPOD VP1, Bottom Feed
RX-VP1A-TR.....	For VersaPOD VP1, Top Feed
RX-VP2A-BR.....	For VersaPOD VP2, Bottom Feed
RX-VP2A-TR.....	For VersaPOD VP2, Top Feed
RX-V6A-BR.....	For V600, Bottom Feed
RX-V6A-TR.....	For V600, Top Feed

Coolant Distribution Units (CDU)

Coolant Distribution Units monitor and manage the flow of cooled, treated water in a closed loop environment to the IcePack Cooling Doors. The CDU establishes a secondary loop that is isolated from the building chilled water supply, maintaining a supply temperature above the dew point to prevent condensation and establish 100% sensible cooling. The heat that is collected by the IcePack Cooling Doors is rejected to the chilled water supply by the CDU via an internal stainless steel plate heat exchanger.

- Floor mount and 6U rack mount* versions available
- 260 kW floor mount unit supports up to 48 IcePack cooling doors depending on demands
- 20 kW rack mount unit* supports up to 2 IcePack cooling doors
- Redundant (dual) and non-redundant (basic) versions available
- Standard bottom exit connections with flex tails
- Versions with top exit, filtering and/or flow meter options are available
- Optional communications kit provides intelligent monitoring and interfaces with building management systems and web management tools for the highest reliability

Ordering Information:

Floor Mount CDU

Part #	Description
RX-CDF-45A-RT1	Dual, 400V, 3-phase, 50Hz, Flex Tails, Bottom Exit
RX-CDF-46A-RT1	Dual, 480V, 3-phase, 60Hz, Flex Tails, Bottom Exit
RX-CDF-26A-RT1	Dual, 208V, 3-phase, 60Hz, Flex Tails, Bottom Exit
RX-CDF-2XA-RT1	Dual, 200V, 3-phase, 50/60Hz, Flex Tails, Bottom Exit
RX-CDF-45A-NT1	Dual, 400V, 3-phase, 50Hz, Flex Tails, Bottom Exit
RX-CDF-46A-NT1	Dual, 480V, 3-phase, 60Hz, Flex Tails, Bottom Exit
RX-CDF-26A-NT1	Dual, 208V, 3-phase, 60Hz, Flex Tails, Bottom Exit
RX-CDF-2XA-NT1	Dual, 200V, 3-phase, 50/60Hz, Flex Tails, Bottom Exit

Rack Mount CDU*

Part #	Description
RX-CDR-26A-NK	208V, single-phase, 60Hz
RX-CDR-25A-NK	230V, single-phase, 50Hz

Communication Kits for CDU's

Part #	Description
RX-CDA-CKF	For Floor Mount CDU
RX-CDA-CKR	For Rack Mount CDU

**Rack Mount CDU not available in North America.*



Hose Kits

- Each hose kit consists of a flexible supply hose and a return hose
- Factory assembled and tested including leak-testing to 5X operating pressure
- Quick-connect drip-free couplings on one end or both ends
- Available in straight versions for raised floor environments or right angled for non-raised floor data centers
- Standard lengths from 1m (3 ft.) to 9m (30 ft.). Longer lengths available.



Ordering Information:

Straight Hose Kits

Part #	Description
RX-HKS-KK-03R	0.9m (3 ft.), Quick Connect Both Ends
RX-HKS-KK-10R	3m (10 ft.), Quick Connect Both Ends
RX-HKS-KK-20R	6m (20 ft.), Quick Connect Both Ends
RX-HKS-KK-30R	9m (30 ft.), Quick Connect Both Ends
RX-HKS-KZ-03R	0.9m (3 ft.), Quick Connect One End
RX-HKS-KZ-10R	3m (10 ft.), Quick Connect One End
RX-HKS-KZ-20R	6m (20 ft.), Quick Connect One End
RX-HKS-KZ-30R	9m (30 ft.), Quick Connect One End

Right-Angle Hose Kits

Part #	Description
RX-HKR-KK-03R	0.9m (3 ft.), Quick Connect Both Ends
RX-HKR-KK-10R	3m (10 ft.), Quick Connect Both Ends
RX-HKR-KK-20R	6m (20 ft.), Quick Connect Both Ends
RX-HKR-KK-30R	9m (30 ft.), Quick Connect Both Ends
RX-HKR-KZ-03R	0.9m (3 ft.), Quick Connect One End
RX-HKR-KZ-10R	3m (10 ft.), Quick Connect One End
RX-HKR-KZ-20R	6m (20 ft.), Quick Connect One End
RX-HKR-KZ-30R	9m (30 ft.), Quick Connect One End

External Manifolds

- Manifolds support multiple cooling doors and/or CDU's
- Connects to flex tails on CDU secondary side
- 8-, 10-, and 12-way versions with ISO B quick connections
- Overhead or under floor versions
- Customized manifolds also available

Ordering Information:

RX-MAN-08B-KRUnder Floor, 8-way, Quick Connections
 RX-MAN-10B-KRUnder Floor, 10-way, Quick Connections
 RX-MAN-12B-KRUnder Floor, 12-way, Quick Connections
 RX-MAN-08T-KROverhead, 8-way, Quick Connections
 RX-MAN-10T-KROverhead, 10-way, Quick Connections
 RX-MAN-12T-KROverhead, 12-way, Quick Connections



Raised Floor Grommets

- Grommets fill openings cut in raised floors to route hose kits
- Sealing of openings improves efficiency of air delivery system
- Split two-piece and one-piece versions available
- Offered in integral and surface mount styles

Ordering Information:

GR-NT48SIntegral One Piece 101 x 203mm (4 x 8 in.) Cable Area
 GR-NT48DSplit Integral One Piece 101 x 203mm (4 x 8 in.) Cable Area
 GR-SM48DSplit Surface Mount 101 x 203mm (4 x 8 in.) Cable Area
 GR-NT25DSplit Integral, Mini 50 x 127mm (2 x 5 in.) Cable Area



Treated Water

- Treated water is used in the closed loop between the CDU and Cooling Door
- Maintains clean heat transfer surfaces to avoid downtime
- Protects against scaling, fouling and corrosion
- Available in 19 liters (5 gallons) or 208 liters (55 gallons) containers

Ordering Information:

RX-TW05Treated Water, 19 liters (5 gallons)
 RX-TW55Treated Water, 208 liters (55 gallons)
 RX-APTAir Purging Tool



IcePack™ Deployment/Commissioning Service

To ensure that the IcePack system is installed with the same quality, attention to detail and support that Seimon customers count on for their data center solutions, Siemon offers full deployment and ongoing maintenance services through a network of highly-trained and Siemon certified installation partners.

- Commissioning Service
 - Door Mounting
 - Sealed liquid cooling loop connections
 - System startup and and full function testing
 - Customer Training
- Preventative Maintenance programs are available from installation service providers
- Raised Floor Cutout and Grommet Installation is available to cut floor tiles and install grommets

Ordering Information:

Commissioning Service

Part #	Description
RX-SVC-RD1-AM	N. America, Qty 1-5 Doors
RX-SVC-RD2-AM	N. America, Qty 6-10 Doors
RX-SVC-RD3-AM	N. America, Qty 11-15 Doors
RX-SVC-DC1-AM	N. America, Qty 1-4 Doors + CDUs
RX-SVC-DC2-AM	N. America, Qty 5-8 Doors + CDUs
RX-SVC-DC3-AM	N. America, Qty 9-12 Doors + CDUs
RX-SVC-RD1-LA	Latin America, Qty 1-5 Doors
RX-SVC-RD2-LA	Latin America, Qty 6-10 Doors
RX-SVC-RD3-LA	Latin America, Qty 11-15 Doors
RX-SVC-DC1-LA	Latin America, Qty 1-4 Doors + CDUs
RX-SVC-DC2-LA	Latin America, Qty 5-8 Doors + CDUs
RX-SVC-DC3-LA	Latin America, Qty 9-12 Doors + CDUs

Preventative Maintenance Service

Part #	Description
RX-SVC-PM1-AM	N. America, Up to 4 CDU, 30 Doors
RX-SVC-PM2-AM	N. America, Up to 8 CDU, 60 Doors
RX-SVC-PM3-AM	N. America, Up to 12 CDU, 90 Doors
RX-SVC-PM1-LA	Latin America, Up to 4 CDU, 30 Doors
RX-SVC-PM2-LA	Latin America, Up to 8 CDU, 60 Doors
RX-SVC-PM3-LA	Latin America, Up to 12 CDU, 90 Doors

Raised Floor Cutout and Grommet Installation Service (per tile)

Part #	Description
RX-SVC-FG1-AM	N. America
RX-SVC-FG1-LA	Latin America

*Service is performed by Siemon certified 3rd party installation partners.
 Service is ordered with IcePack materials.
 Refer to Statements of Work (SOW's) for detail on included and excluded services and geographic limitations*



Intelligent Power Distribution Units

Siemon’s line of intelligent PDUs provide valuable energy consumption data while reliably delivering power to critical IT equipment. Each of our PDU families deliver real-time power information with varying degrees of intelligent functionality ranging from basic Metered units to full-featured Managed PDUs — providing multiple options based on the level of data and control requirements. Siemon’s intelligent PDUs may be used as stand-alone units, or they can communicate with third-party software through common open networking protocols. All of our network-capable intelligent PDUs also have the capacity to connect environmental sensors, allowing temperature, airflow, and humidity to be measured to further troubleshoot and optimize data center efficiency.



PDU Families

- Metered
- Monitored
- Switched
- Managed

FUNCTION	METERED	MONITORED	SWITCHED	MANAGED
Built-In Display for Local Use	√	√	√	√
Device-Level Monitoring	√	√	√	√
Remote Monitoring via Ethernet Port		√	√	√
Environmental Sensor Ports		√	√	√
Outlet-Level Switching			√	√
Outlet-Level Monitoring				√

Configurations

- NEMA and IEC plug inputs
- Single and 3-phase voltages
- Horizontal and zero-U vertical styles
- 3 meter (10 ft.) cords with other lengths available
- Test data included with each unit

Mounting

- Vertical PDUs mount via toolless button attachments and include a mounting bracket for additional flexibility
- Horizontal PDUs mount to standard EIA 19 in. configurations



Metered PDUs

Metered PDUs provide local visual monitoring capability through a built-in LED meter that displays real-time consumption data. Metered PDUs are a cost-effective alternative to monitored or switched PDUs when remote monitoring is not desired, while providing a more intelligent alternative to basic PDUs.

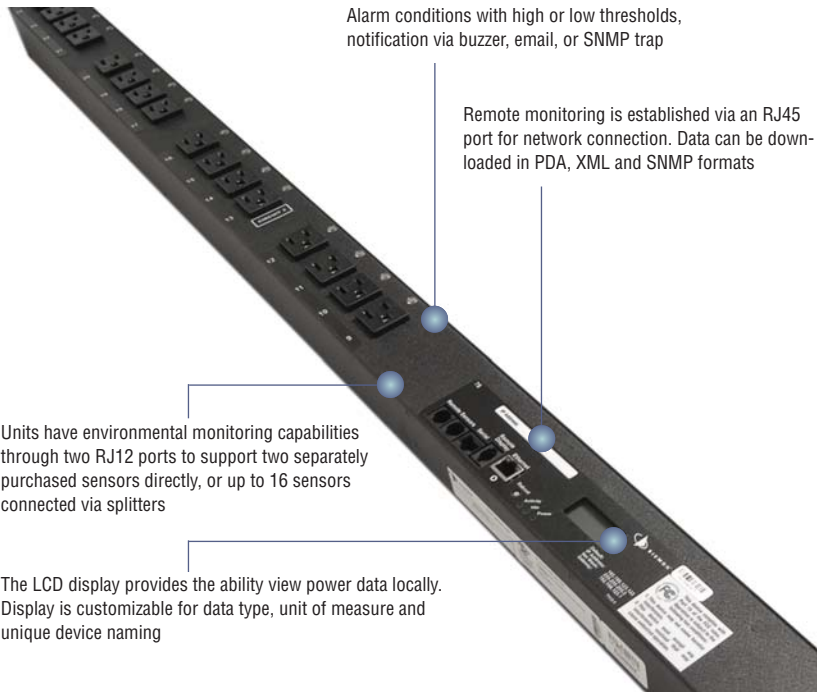


Ordering Information

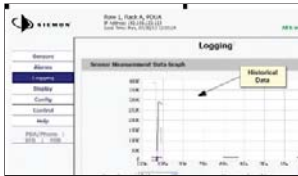
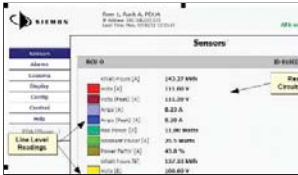
Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Receptacles	Length	Part Number
North America								
Vertical	20A x 2	120 dual input	1.9kW x 2	NEMA 5-20P	5-20R (20)	-	1683mm (66 in.)	7TV02-AB20Z-K2A
Vertical	20A x 2	120 dual input	1.9kW x 2	NEMA L5-20P	5-20R (20)	-	1683mm (66 in.)	7TV05-AB20Z-K2A
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	6-20R (24)	-	1683mm (66 in.)	7TV11-AC24Z-K1A
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV11-BA24E-K1A
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	5-20R (24)	L6-20R (6)	1683mm (66 in.)	7TV11-AB24H-K1A
Vertical	30A	208	5kW	NEMA L6-30P	6-20R (24)	-	1683mm (66 in.)	7TV08-AC24Z-K1A
Vertical	30A	208	5kW	NEMA L6-30P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV08-BA24E-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	5-20R (24)	-	1683mm (66 in.)	7TV13-AB24Z-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV13-BA24E-K1A
Vertical	30A, 3 phase	208 DELTA	8.6kW	NEMA L15-30P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV15-BA24E-K1A
Vertical	60A	208	10kW	IEC 2P / 3W	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV24-BA24E-K1A
International								
Vertical	16A, 3 phase	230/400 WYE	11.04kW	IEC 309 3P + N + E	C13 (24)	C-19 (6)	1683mm (66 in.)	7TV26-BA24E-K1A
Vertical	32A	230	7.36kW	IEC 309 2P + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV22-BA24E-K1A
Vertical	32A, 3 phase	230/400 WYE	22.08kW	IEC 309 3P + N + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7TV27-BA24E-K1A
Horizontal 1U	32A	230	7.36kW	IEC 309 2P + E	C-13 (24)	-	480mm (19 in.)	7TH22-BA24Z-K1A

Monitored PDUs

Monitored PDUs enable remote monitoring of power consumption. Because they collect data at an aggregate, device-level, Monitored PDUs generate a smaller quantity of information to simplify management.



The browser-based interface is used to view charts and logs without the need for additional software



The unit provides remote and local alarms and utilization logging

Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Receptacles	Length	Part Number
North America								
Vertical	20A	120	1.9kW	NEMA 5-20P	5-20R (24)	-	1683mm (66 in.)	7MV02-AB24Z-K1A
Vertical	20A	120	1.9kW	NEMA L5-20P	5-20R (24)	-	1683mm (66 in.)	7MV05-AB24Z-K1A
Vertical	20A	208	3.3kW	NEMA 6-20P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV03-BA24E-K1A
Vertical	20A	208	3.3kW	NEMA L6-20P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV07-BA24E-K1A
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	5-20R (24)	-	1683mm (66 in.)	7MV11-AB24Z-K1A
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV11-BA24E-K1A
Vertical	30A	120	2.9kW	NEMA L5-30P	5-20R (24)	-	1683mm (66 in.)	7MV06-AB24Z-K1A
Vertical	30A	208	5kW	NEMA L6-30P	6-20R (24)	-	1683mm (66 in.)	7MV08-AC24Z-K1A
Vertical	30A	208	5kW	NEMA L6-30P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV08-BA24E-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	5-20R (24)	-	1683mm (66 in.)	7MV13-AB24Z-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV13-BA24E-K1A
Vertical	35A, 3 phase	208 DELTA	10.1kW	IEC 3P / 4W	C-13 (30)	C-19 (6)	1778mm (70 in.)	7MV28-BA30E-K1A
Vertical	50A, 3 phase	208 DELTA	14.4kW	IEC 3P / 4W	C-13 (24)	C-19 (6)	1778mm (70 in.)	7MV29-BA24E-K1A
Vertical	60A, 3 phase	208 DELTA	17.3kW	IEC 3P / 4W	C-13 (24)	C-19 (6)	1778mm (70 in.)	7MV25-BA24E-K1A
Horizontal 1U	20A	120 or 208	1.9 or 3.3kW	NEMA C-20	C-13 (12)	-	480mm (19 in.)	7MH19-BA12Z-K1A
Horizontal 1U	20A	120	1.9kW	NEMA 5-20P	5-20R (10)	-	480mm (19 in.)	7MH02-AB10Z-K1A
Horizontal 1U	20A	120	1.9kW	NEMA L5-20P	5-20R (10)	-	480mm (19 in.)	7MH05-AB10Z-K1A
International								
Vertical	16A, 3 phase	230/400 WYE	11.04kW	IEC 309 3P + N + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV26-BA24E-K1A
Vertical	16A	230	3.68kW	IEC 309 2P + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV20-BA24E-K1A
Vertical	32A, 3 phase	230/400 WYE	22.08kW	IEC 309 3P + N + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV27-BA24E-K1A
Vertical	32A	230	7.36kW	IEC 309 2P + E	C-13 (24)	C-19 (6)	1683mm (66 in.)	7MV22-BA24E-K1A
Horizontal 1U	16A	230	3.68kW	IEC 309 C-20	C-13 (12)	-	480mm (19 in.)	7MH33-BA12Z-K1A

Switched and Managed PDUs

In addition to power monitoring, switched and managed PDUs enable users to remotely control individual receptacles by allowing equipment to be restarted or remotely shut down.

Switched PDUs

Switched PDUs combine total PDU power monitoring with port-level switching. They are the ideal solution when port control is needed but only aggregate consumption data is desired.

Managed PDUs

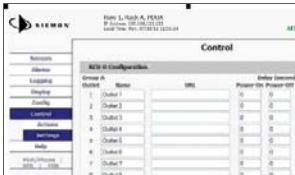
Managed PDUs offer the highest level of control and monitoring by providing outlet-level monitoring and outlet-level switching.

Units have environmental monitoring capabilities through two RJ12 ports to support two separately purchased sensors directly, or up to 16 sensors connected via splitters

Remote monitoring is established via an RJ45 port for network connection. Data can be downloaded in PDA, XML and SNMP formats

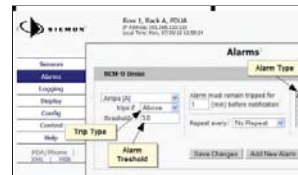
User definable URL for each outlet

The LCD display provides the ability view power data locally. Display customizable data type, unit of measure and data outlet status



Sequential start up and shut down to manage loads

The browser-based interface is used to access charts, logs, and alarms



Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Receptacles	Length	Part Number
Switched								
North America								
Vertical	30A	120	2.9kW	NEMA L5-30P	5-15R (24)	-	1778mm (70 in.)	7SV06-AA24Z-K1A
Vertical	30A	208	5kW	NEMA L6-30P	C-13 (20)	C-19 (4)	1778mm (70 in.)	7SV08-BA20D-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	C-13 (21)	C-19 (3)	1829mm (72 in.)	7SV13-BA21C-K1A
Vertical	30A, 3 phase	208 DELTA	8.6kW	NEMA L15-30P	C-13 (21)	C-19 (3)	1829mm (72 in.)	7SV15-BA21C-K1A
International								
Vertical	16A, 3 phase	230/400 WYE	11.04kW	IEC 309 3P + N + E	C-13 (21)	C-19 (3)	1683mm (66 in.)	7SV26-BA21C-K1A
Vertical	16A	230	3.68kW	IEC 309 2P + E	C-13 (21)	C-19 (3)	1683mm (66 in.)	7SV20-BA21C-K1A
Vertical	32A, 3 phase	230/400 WYE	22.08kW	IEC 309 3P + N + E	C-13 (21)	C-19 (3)	1829mm (72 in.)	7SV27-BA21C-K1A
Vertical	32A	230	7.36kW	IEC 309 2P + E	C-13 (20)	C-19 (4)	1778mm (70 in.)	7SV22-BA20D-K1A
Managed								
North America								
Vertical	20A, 3 phase	120 / 208 WYE	5.8kW	NEMA L21-20P	C-13 (21)	C-19 (3)	1683mm (66 in.)	7WV11-BA21C-K1A
Vertical	30A	208	5kW	NEMA L6-30P	C-13 (20)	C-19 (4)	1778mm (70 in.)	7WV08-BA20D-K1A
Vertical	30A, 3 phase	120 / 208 WYE	8.6kW	NEMA L21-30P	C-13 (21)	C-19 (3)	1829mm (72 in.)	7WV13-BA21C-K1A
Vertical	35A, 3 phase	208 DELTA	10.1kW	IEC 3P / 4W	C-13 (21)	C-19 (3)	1829mm (72 in.)	7WV28-BA21C-K1A
Vertical	60A, 3 phase	208 DELTA	17.3kW	IEC 3P / 4W	C-13 (18)	C-19 (6)	1683mm (66 in.)	7WV25-BA18E-K1A
Horizontal 1U	20A	120 or 208	1.9 or 3.3kW	NEMA C-20	C-13 (8)	-	480mm (19 in.)	7WH19-BA08Z-K1A
International								
Vertical	16A, 3 phase	230/400 WYE	11.04kW	IEC 309 3P + N + E	C-13 (21)	C-19 (3)	1683mm (66 in.)	7WV26-BA21C-K1A
Vertical	16A	230	3.68kW	IEC 309 2P + E	C-13 (21)	C-19 (3)	1683mm (66 in.)	7WV20-BA21C-K1A
Vertical	32A, 3 phase	230/400 WYE	22.08kW	IEC 309 3P + N + E	C-13 (21)	C-19 (3)	1829mm (72 in.)	7WV27-BA21C-K1A
Vertical	32A	230	7.36kW	IEC 309 2P + E	C-13 (20)	C-19 (4)	1778mm (70 in.)	7WV22-BA20D-K1A
Horizontal 1U	32A	230	7.36kW	IEC 309 2P + E	C-13 (8)	-	480mm (19 in.)	7WH22-BA08Z-K1A

Accessories

Environmental Sensors



7ENS-TEMP
Temperature Sensor



7ENS-TEMPHAF
Temperature/ Airflow/ Humidity Sensor



7ENA-SPLIT-5.....
Splitter RJ12 x 5 way

SPECIFICATIONS

General	
Safety Compliance	UL 60950 (North America PDUs only), CE (International PDUs only)
Emissions	FCC Part 15 Class A
Cord Length	3m (10 ft.)
Circuit breakers	30A and higher units
Outlet Color Coding	On 3 phase units for load balancing
Material	18 Gauge Steel
Finish	Black powder coat
Warranty	3 Years

Environmental	
Operating Temperature	10 to 40°C (50 to 104°F)
Storage Temperature	-25 to 65°C (-13 to 149°F)
Operating Humidity	5% to 95% (non-condensing)
Storage Humidity	5% to 95% (non-condensing)
Operating Elevation	0 to 2000m (0 to 6561 ft.)
Storage Elevation	0 to 15240m (0 to 50000 ft.)

Networking	(not applicable to metered units)
Networking Protocols	HTTP, HTTPS (SSL/TLS), SMTP, POP3, ICMP, DHCP, TCP/IP, NTP, Telnet, Syslog
Ethernet Link Speed	10 Mbit; half-duplex
Data Formats	HTML, SNMP, CSV/Plain Text, XML

