SmartRack® Close-Coupled Cooling for IT Environments

Efficient, flexible, manageable cooling reduces costs and simplifies installation.
Cooling Engineered for IT Environments

SmartRack cooling solutions are designed for the needs of the IT department. IT staff can install most models without outside assistance, quickly reconfigure them to respond to new challenges and manage them over the network like other IT resources.

COMPACT AND EFFICIENT COOLING
SmartRack cooling solutions pack powerful cooling into compact footprints. They help prevent equipment problems caused by overheating and temperature fluctuations. Close-coupled cooling delivers cold air near the IT heat load to help prevent recirculation of warm air, improve predictability and enable right-sized modular cooling for efficient expansion.

SIMPLIFIED INSTALLATION
Air conditioning units plug into standard NEMA wall outlets and fit almost anywhere. Installation is do-it-yourself simple, with no need for disruptive construction projects, external condensers, refrigerant piping, plumbing, raised floors or costly specialists. Although chilled water solutions are not quite as simple, they still offer best-in-class convenience.

UNATTENDED OPERATION
Air conditioning units support automated on/off scheduling and restart automatically after power outages with last-used settings. They also include built-in evaporators to prevent condensation from accumulating, so you won’t need to empty a water collection tank or install a floor drain.

FLEXIBILITY
Retrofit, reconfigure or expand cooling on the fly to handle new equipment, increasing power density and troublesome hot spots. Direct area cooling through adjustable louvers or use flexible output ducts to focus cold air where it’s needed most. Modular cooling means you’re always ready for change, which is the one constant in every IT environment.

RESILIENCE
With cooling distributed across multiple units, a single problem won’t disable your data center. Engineered to meet the rigorous requirements of high-availability IT environments, SmartRack cooling solutions are less likely to have problems in the first place, and they respond gracefully to external problems like power outages.

MANAGEABILITY
All units support network management, allowing you to monitor temperatures, change settings, define threshold warnings, receive alerts, access logs and automate operation remotely via SNMP, Web, SSH or telnet.

All Tripp Lite cooling solutions support remote management, which is included with some units and offered as an optional upgrade with others. You can use Tripp Lite’s free cooling management software to manage units over the network from any location. You can also monitor units via SNMP in conjunction with a third-party network management system.
Air Conditioning for Wall-Mount Cabinets (2,000 BTU/hr.)

CLEVER COOLING FOR WALL-MOUNT CABINETS

• **SRCOOL2KWM** provides 2,000 BTU/hr. (0.6 kW) of air conditioning for wall-mount rack enclosure cabinets.
• Works with wall-mount cabinets from most manufacturers.

CLOSE-COUPLED COOLING

• The compact air conditioning unit mounts to the top of the wall-mount cabinet, and the magnetic output duct directs cold air through the perforated front door to installed IT equipment.

PLUG-AND-PLAY POWER

• The 5-15P plug connects to commonly available 15-amp outlets.

REMOTE MANAGEMENT

• An optional network card enables remote monitoring and control.

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Rack-Mounted Air Conditioning (7,000 BTU/hr.)

AIR CONDITIONING MOUNTED IN THE RACK

• **SRCOOL7KRM** provides 7,000 BTU/hr. (2 kW) of in-rack air conditioning for standard rack enclosures.
• The EIA-compliant cabinet fits in 8U at the bottom of the rack.

CLOSE-COUPLED COOLING

• Close-coupled cooling delivers cold air to heat loads inside the rack, discouraging recirculation and increasing efficiency.

PLUG-AND-PLAY POWER

• The 5-15P plug connects to commonly available 15-amp outlets.

REMOTE MANAGEMENT

• An optional network card enables remote monitoring and control.

FLEXIBLE INSTALLATION

• An optional exhaust duct adds support for open frame racks.

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PORTABLE COOLING FOR SMALL SPACES
• SRCOOL12K provides 12,000 BTU/hr. (3.5 kW) of portable cooling capacity for network closets and small rooms.

CLOSE-COUPLED COOLING
• Close-coupled cooling delivers cold air near heat loads to discourage recirculation and increase energy efficiency.

PLUG-AND-PLAY POWER
• The S-15P plug connects to commonly available 15-amp outlets.

REMOTE MANAGEMENT
• An optional network module enables remote monitoring and control.

Tripp Lite’s award-winning portable cooling is #1!
Source: NPD Group channel sales data.

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PLUG-AND-PLAY POWER
• The S-15P plug connects to commonly available 15-amp outlets.

REMOTE MANAGEMENT
• An optional network module enables remote monitoring and control.

HIGH-CAPACITY PORTABLE COOLING FOR DEMANDING IT ENVIRONMENTS
• SRCOOL18K provides 18,000 BTU/hr. (5.275 kW) of portable and backup cooling for server rooms and data centers.

CLOSE-COUPLED COOLING
• Close-coupled cooling delivers cold air near heat loads in rack rows to discourage recirculation and increase energy efficiency.

PLUG-AND-PLAY POWER
• The L6-20P plug connects to common data center outlets.

REMOTE MANAGEMENT
• An optional network card enables remote monitoring and control.

SRCOOL12K is compact enough to cool small network closets, back offices and other locations where other cooling solutions wouldn’t fit. IT staff can set it up quickly and leave it to run unattended in remote locations for long periods.

SRCOOL18K can focus cooling through a flexible output duct or provide area cooling through an adjustable vent (shown).

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Portable Air Conditioning (24,000 BTU/hr.)

HIGH-CAPACITY PORTABLE COOLING WITH BUILT-IN REMOTE MANAGEMENT

- **SRCOOL24K** provides 24,000 BTU/hr. (7 kW) of portable and backup cooling for server rooms and data centers.

CLOSE-COUPLED COOLING

- Close-coupled cooling delivers cold air near heat loads in rack rows to discourage recirculation and increase energy efficiency.

PLUG-AND-PLAY POWER

- The L6-20P plug connects to common data center outlets.

REMOTE MANAGEMENT

- The built-in network card enables remote monitoring and control.

In-Row Air Conditioning (33,000 BTU/hr.)

INNOVATIVE IN-ROW COOLING

- **SRCOOL33K** provides 33,000 BTU/hr. (9.7 kW) of in-row air conditioning for server rooms and data centers.

INNOVATIVE COOLING TECHNOLOGY

- The variable-speed compressor provides precise temperature control and limits inrush current to save energy and reduce electrical disruptions inside the data center.

CLOSE-COUPLED COOLING

- Installed in a rack row, the output vent delivers cold air high in the cold aisle where it sinks to provide even distribution.

PLUG-AND-PLAY POWER

- The L6-30P plug connects to available data center outlets without requiring an electrician to hardwire input power connections.

REMOTE MANAGEMENT

- An optional network card enables remote monitoring and control.
In-Row Chilled Water Cooling (204,000 BTU/hr.)

HIGH CAPACITY

• **SRCOOL60KCW** provides 204,000 BTU/hr. (60 kW) of in-row chilled-water cooling for medium and large data centers.

CLOSE-COUPLING COOLING

• Installed in a rack row, the unit draws hot air from behind the row and delivers cold air to the front, perfect for supporting efficient hot-aisle/cold-aisle data center configurations.

INTELLIGENT MONITORING & CONTROL

• The smart controller automatically detects input and output air temperature through built-in sensors and adjusts operation to manage data center heat loads with precision and efficiency.
• The built-in network management card allows IT staff to monitor conditions, change settings and receive alerts in any location.
• The LCD control panel provides full-featured local management.

RESILIENCE & SERVICEABILITY

• Redundant power supplies and fans can be hot-swapped.
• Dual-input power supplies permit backup power connection.
• During a power failure, the unit automatically interrupts the chilled water flow to prevent condensation and leakage.

MODULAR SYSTEM EXPANSION

• Right-size cooling capacity to start and expand as needed, linking units to coordinate as a distributed system.

**Note:** **SRCOOL60KCW** is not a standalone unit. It must connect to an existing chilled water system to operate.
| Model          | Cooling Capacity | Cooling Type       | Direct Expansion | Form Factor | Recommended Applications | Dimensions (HxWxD) | Unit Weight | AC Input       | 230V Version | Roll Casters | Refrigerant Type | Refrigerator Capacity | Dehumidifying Capacity | Nominal Air Circulation | Nominal Input Current | Compressor Type | Audible Noise (Max.) | Remote Management | External Sensor | Close-Coupled Cooling | Eco-Friendly Refrigerant | Automatic Restart | On/Off Scheduling | Condensation Evaporator | Condensation Drainage | Cooling Output Vent | Flexible Cooling Duct | Flexible Exhaust Duct | Self-Contained | Installation Kit | Standards |
|---------------|------------------|--------------------|------------------|--------------|----------------------------|-------------------|-------------|----------------|--------------|--------------|----------------------|------------------------|------------------------|------------------------|---------------------|---------------|----------------------|------------------------|----------------------|------------------------|------------------------|-------------------|---------------------|-----------------------|----------------------|----------------------|------------------------|
| SRCOOL2KWM    | 2,000 BTU/hr.    | Piggyback Unit for Wall-Mount Cabinets | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 11.1 x 13.5 x 13.5 in. | 35 lb. | 120V, 60 Hz | N/A | No | R134A | NEMA 5-15P | 0.22 gal./hr. | Evaporator: 78 CFM Condenser: 130 CFM | 2.5A | Yes | Yes | Yes | Included with SRCOOL2KWM(1) | Yes | Yes | Yes | Yes | Included with SRCOOL2KWM(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL7KRM    | 7,000 BTU/hr.    | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 13.9 x 17.4 x 22.5 in. | 61.6 lb. | 120V, 60 Hz | No | No | R134A | NEMA 5-15P | 0.33 gal./hr. | Evaporator: 329 CFM Condenser: 311 CFM | 8.5A | Yes | Yes | Yes | Included with SRCOOL7KRM(1) | Yes | Yes | Yes | Yes | Included with SRCOOL7KRM(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL12K     | 12,000 BTU/hr.   | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Compact Portable Unit | Wall-Mount Rack Enclosure for Open Frame Racks | 30.6 x 11.8 x 19.9 in. | 73.9 lb. | 120V, 60 Hz | Yes | Yes | R410A | NEMA 5-15P | 0.66 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 10.5A | Yes | Yes | Yes | Included with SRCOOL12K(1) | Yes | Yes | Yes | Yes | Included with SRCOOL12K(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL18K     | 18,000 BTU/hr.   | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 38.2 x 20.5 x 21.7 in. | 175.4 lb. | 208/240V, 60 Hz | Yes | Yes | R410A | NEMA 5-15P | 12.5 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 13.5A | Yes | Yes | Yes | Included with SRCOOL18K(1) | Yes | Yes | Yes | Yes | Included with SRCOOL18K(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL24K     | 24,000 BTU/hr.   | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 38.2 x 20.5 x 21.7 in. | 175.4 lb. | 208/240V, 60 Hz | Yes | Yes | R410A | NEMA 5-15P | 15 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 24A (Variable) | Yes | Yes | Yes | Included with SRCOOL24K(1) | Yes | Yes | Yes | Yes | Included with SRCOOL24K(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL33K     | 33,000 BTU/hr.   | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 38.2 x 20.5 x 21.7 in. | 700 lb. | 208-240V, 50/60 Hz | Yes | Yes | R410A | NEMA 5-15P | 0.66 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 12.6A | Yes | Yes | Yes | Included with SRCOOL33K(1) | Yes | Yes | Yes | Yes | Included with SRCOOL33K(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL60KWDR  | 204,000 BTU/hr.  | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 78.5 x 23.6 x 43 in. | 22.4 oz. | 208-240V, 50/60 Hz | Yes | Yes | R410A | NEMA 5-15P | 5.66 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 22A (Variable) | Yes | Yes | Yes | Included with SRCOOL60KWDR(1) | Yes | Yes | Yes | Yes | Included with SRCOOL60KWDR(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |
| SRCOOL60KCW   | 204,000 BTU/hr.  | Rack-Mounted Unit, 8U (4-Pos Mount) | Direct Expansion | Rack-Mounted Unit, 8U (4-Pos Mount) | Wall-Mount Rack Enclosure for Open Frame Racks | 78.5 x 23.6 x 43 in. | 22.4 oz. | 208-240V, 50/60 Hz | Yes | Yes | R410A | NEMA 5-15P | 5.66 gal./hr. | Evaporator: 634 CFM Condenser: 640 CFM | 22A (Variable) | Yes | Yes | Yes | Included with SRCOOL60KCW(1) | Yes | Yes | Yes | Yes | Included with SRCOOL60KCW(1) | Yes | Yes | Yes | Yes | Included | UL 484 (ETU), CSA, NOM, RoHS |

Certifications vary with model. (1) Rated chilled water flow rate. (2) 80°F (30°C), 80% relative humidity. (3) Variable-speed compressor limits indoor current and saves energy. (4) Also supports SNMPWEBCARD, which replaces the included Modbus card. (5) ENViroSENSE sensor reports temperature, humidity and status of contact closure connections. (6) TLxTEM reports temperature, humidity and status of contact closure connections. SRCOOL60KRT reports temperature and humidity. SRCOOL60KWR detects and reports water leaks. (7) Condensation drainage may be required in high-humidity or dehumidification applications. (8) Also includes two intake ducts. (9) Requires connection to facility chilled water system. (10) Includes all parts required for standard installation. May require additional tools. Alternate applications may require additional parts. (11) Add SRCOOL7KDUCT for applications requiring an exhaust duct. (12) Add SRCOOL7KDUCT to facilitate connection of ducts to dropped ceiling. (13) Ready for lower piping connection. Add SRCOOL60KRTx for upper piping. (14) Ready for lower piping connection. Add SRCOOL60KWRx for upper piping.
Tripp Lite offers a variety of airflow management and heat removal solutions to help prevent downtime, increase efficiency and reduce operating costs. In addition, SmartRack premium rack enclosures allow abundant front-to-rear airflow and support high-density cable managers to help prevent cable clutter from obstructing rack airflow.

**Airflow Optimization & Heat Removal Solutions**

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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>SR1UBRUSH</td>
<td>1U Cable Pass-Through Panel with Brush Strip</td>
</tr>
<tr>
<td>SR1UPANEL10</td>
<td>Toolless 1U Blanking Panel Kit (10 Pieces)</td>
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<tr>
<td>SR1UPANEL50</td>
<td>Toolless 1U Blanking Panel Kit (50 Pieces)</td>
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<tr>
<td>SR1UPANEL200</td>
<td>Toolless 1U Blanking Panel Kit (200 Pieces)</td>
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<tr>
<td>SRBRUSHWM</td>
<td>Brush Strip Plate for Wall-Mount Cabinets</td>
</tr>
<tr>
<td>SRFAN1U</td>
<td>1U Fan Tray with 3 Fans</td>
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<tr>
<td>SRFAN3U</td>
<td>3U Fan Panel with 3 Fans</td>
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<tr>
<td>SRFANROOF</td>
<td>Roof-Mounted Fan Panel with 6 Fans for Floor-Standing Rack Enclosures</td>
</tr>
<tr>
<td>SRFANWM</td>
<td>Roof Fan Kit with 2 Fans for Wall-Mount Cabinets</td>
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<tr>
<td>SRGASKET</td>
<td>Rack Enclosure Airflow Optimization Kit</td>
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<tr>
<td>SRSKIRT</td>
<td>Rack Enclosure Skirt Kit</td>
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<tr>
<td>SRSKIRT3</td>
<td>Rack Enclosure Skirt Kit for 3-inch Casters</td>
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<tr>
<td>SR SWITCHDUCT</td>
<td>Rack Enclosure Side Airflow Ducting Kit for Network Switches</td>
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<tr>
<td>SR THERMDUCT</td>
<td>Thermal Duct Kit for Standard 42-48U Rack Enclosures</td>
</tr>
<tr>
<td>SRXUPANEL</td>
<td>4-Size Blanking Panel Kit (1U, 2U, 4U and 8U)</td>
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**Rack-Mount Cable Managers**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>SRCABLEDUCT1U</td>
<td>1U Horizontal Cable Manager</td>
</tr>
<tr>
<td>SRCABLEDUCTVRT</td>
<td>6 ft. Vertical Cable Manager</td>
</tr>
<tr>
<td>SRCABLEDUCT1UHD</td>
<td>1U High-Capacity Horizontal Cable Manager</td>
</tr>
<tr>
<td>SRCABLEDUCT2UHD</td>
<td>2U High-Capacity Horizontal Cable Manager</td>
</tr>
<tr>
<td>SRCABLERING1U</td>
<td>1U Horizontal Cable Manager, Flexible Ring</td>
</tr>
<tr>
<td>SRCABLERING2U</td>
<td>2U Horizontal Cable Manager, Flexible Ring</td>
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<tr>
<td>SRCABLERINGVRT</td>
<td>6 ft. Vertical Cable Manager, Flexible Ring</td>
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<tr>
<td>SRCABLETRAY1U</td>
<td>1U Horizontal Cable Management Tray</td>
</tr>
<tr>
<td>SRCABLEVRT3</td>
<td>High-Capacity Vertical Cable Manager, 3 in. Wide</td>
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<tr>
<td>SRCABLEVRT6</td>
<td>High-Capacity Vertical Cable Manager, 6 in. Wide</td>
</tr>
<tr>
<td>SRCABLEVRT12</td>
<td>High-Capacity Vertical Cable Manager, 12 in. Wide</td>
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</tbody>
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