

Uniflair™ InRow® Cooling

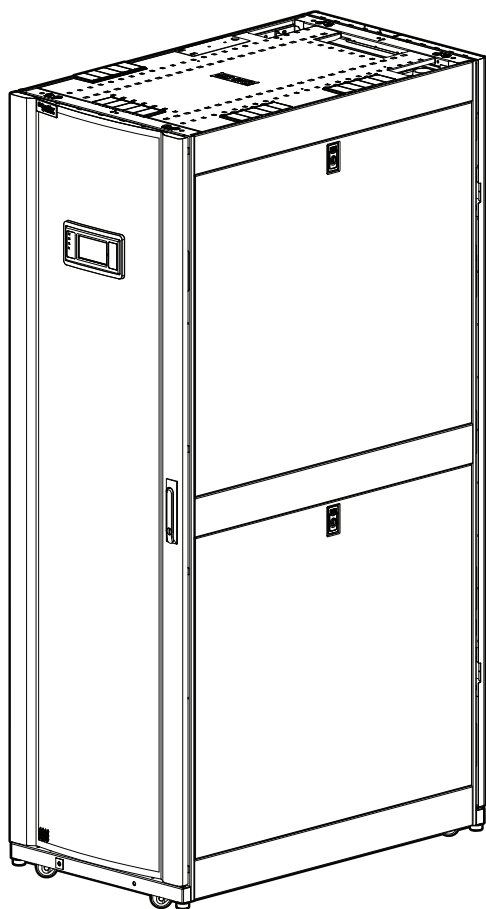
Uniflair Chilled-Water InRow Cooling

Installation Manual

ACRC600, ACRC601, ACRC602, ACRC600P, ACRC601P, ACRC602P

990-5790C-001

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Safety

Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert the user to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in death or serious injury.**

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury.**

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury.**

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Always abide strictly by local laws and regulations in the place of installation.

Safety Notices During Installation

Read and adhere to the following important safety considerations when working with this equipment. Follow all local and national regulations when handling refrigerants.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- This equipment must be installed and serviced by qualified and trained personnel only.
- Turn off all power supplying this equipment before working on or inside the equipment.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- If the power supply cord is damaged, it must be replaced by an equivalent cord or assembly available from the manufacturer or its service agent.

Failure to follow these instructions will result in death or serious injury.

WARNING

HAZARD OF EQUIPMENT FALLING OVER

- Use two or more persons at all times to move or turn this equipment.
- Always push, pull, or turn while facing the front and rear of this equipment. Never push, pull, or turn while facing the sides of this equipment.
- Slowly move this equipment across uneven surfaces or door thresholds.
- Lower leveling feet to floor when this equipment is at rest.
- Lower leveling feet and attach joining brackets to adjacent racks when this equipment is in final position.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

WARNING

HAZARD FROM MOVING PARTS

Keep hands, clothing, and jewelry away from moving parts. Check the equipment for foreign objects before closing the doors and starting the equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

HAZARD FROM UNPROTECTED OUTPUT

Apply circuit protection to all outputs.

Failure to follow these instructions can result in injury or equipment damage.

▲ CAUTION

HAZARD TO EQUIPMENT OR PERSONNEL

Ensure that all spare parts and tools are removed from the equipment before operating.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

FREEZE HAZARD

External water piping must have adequate freeze protection and must be correctly applied based on local climate conditions and best practices. Install insulation and electric heat tracing (not supplied) on all exposed piping.

Failure to follow these instructions can result in equipment damage.

NOTICE

STATIC ELECTRICITY HAZARD

Circuit boards contained within this unit are sensitive to static electricity. Use one or more electrostatic-discharge devices while handling the board.

Failure to follow these instructions can result in equipment damage.

NOTICE

UV HAZARD

Avoid exposing cross-linked polyethylene (PEX) piping to direct sunlight. PEX piping can be damaged by direct sunlight. Store PEX piping in its carton to avoid dirt accumulation and extended exposure to direct sunlight.

Failure to follow these instructions can result in equipment damage.

General Information

Document Overview

Save These Instructions

This manual contains important instructions that must be followed during the installation of this equipment.

Manual Updates

Schneider Electric™ policy is one of continuous technological innovation and the company reserves the right to amend any data herein without prior notice. The images shown in this manual are for descriptive purposes only.

NOTE: Unit images and component identification information are examples only.

For any updates to this manual, please contact Schneider Electric™ providing the related part number displayed on the manual back cover.

Cross-Reference Symbol Used in This Manual



See another section of this document or another document for more information on this subject.

Receiving and Inspecting the Equipment

Uniflair InRow air conditioner has been tested and inspected for quality assurance before shipment from Schneider Electric. Carefully inspect both the exterior and interior of the equipment immediately upon receipt to ensure that the equipment has not been damaged during transit.

Verify that all parts ordered were received as specified and that the equipment is the correct type, size, and voltage.

Filing a Claim

If damage is identified on receipt of the equipment, note the damage on the bill of lading and file a damage claim with the shipping company. Contact Schneider Electric Worldwide Customer Support at one of the numbers listed on the Web page on the back page of this manual for information on how to file a claim with the shipping company. The shipping claim must be filed at the receiving end of the delivery.

NOTE: In case of shipping damage, do not operate the equipment. Keep all packaging for inspection by the shipping company and contact Schneider Electric.

Storing the Equipment Before Installation

NOTICE

DAMAGE FROM EXPOSURE

Leaving the equipment uncovered and exposed to possible damage from the environment will void the factory warranty.

Failure to follow these instructions can result in equipment damage.

If the equipment will not be installed immediately, store it in a safe place, protected from the weather.

Moving the Equipment

⚠ WARNING

HAZARD OF EQUIPMENT FALLING OVER

- Use two or more persons at all times to move or turn this equipment.
- Always push, pull, or turn while facing the front and rear of this equipment. Never push, pull, or turn while facing the sides of this equipment.
- Slowly move this equipment across uneven surfaces or door thresholds.
- Lower leveling feet to floor when this equipment is at rest.
- Lower leveling feet and attach joining brackets to adjacent racks when this equipment is in final position.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

The recommended tools for moving equipment while it is still on the pallet include the following:

FORKLIFT

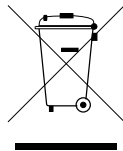


PALLET JACK



Waste Disposal

Waste Electrical and Electronic Equipment (WEEE) Disposal



Schneider Electric products comply with international directives on the Restriction of Hazardous Substances (RoHS) in electronic and electrical equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). Dispose of any waste electronic or electrical equipment with the appropriate recycling center. Contact Schneider Electric for assistance.

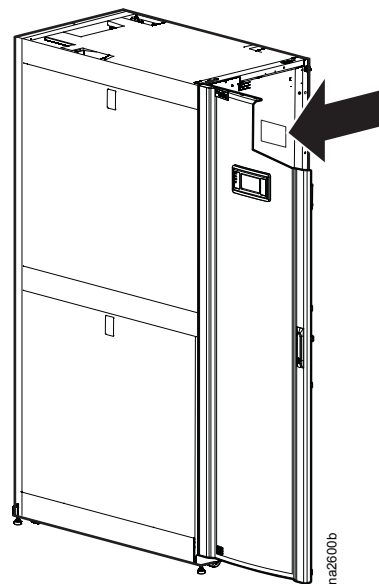
At the end of an EEE (Electrical and Electronic Equipment) useful life, any battery included in the same must be removed and separated according to the instructions provided by the supplier, before disposing of the product. Used batteries must be disposed of at an appropriate waste collection center, as required by local regulations.

Unit Overview

Model Identification

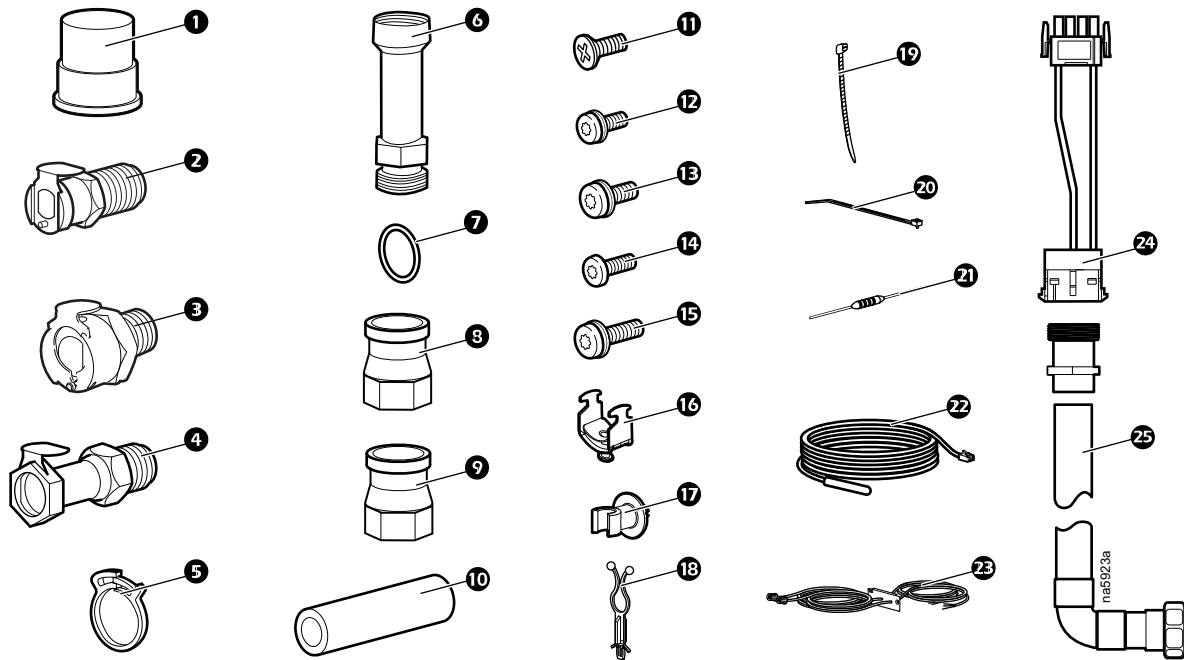
The model number can be found on the outside of the shipping crate and on the name plate located on the unit as shown. Use the table below to verify that the equipment is the right type and voltage.

| Model | Configuration | Voltage | Reheat | Humidifier | Air Pattern |
|----------|---------------|---------------------|----------|------------------------------|---------------|
| ACRC600 | Chilled water | 200-240/3~/50-60 Hz | N/A | N/A | Back to front |
| ACRC601 | Chilled water | 460-480/3~/60 Hz | N/A | N/A | Back to front |
| ACRC602 | Chilled water | 380-415/3~/50-60 Hz | N/A | N/A | Back to front |
| ACRC600P | Chilled water | 200-240/3~/50-60 Hz | Electric | Steam canister (replaceable) | Back to front |
| ACRC601P | Chilled water | 460-480/3~/60 Hz | Electric | Steam canister (replaceable) | Back to front |
| ACRC602P | Chilled water | 380-415/3~/50-60 Hz | Electric | Steam canister (replaceable) | Back to front |



Component Identification

Install Kit Inventory



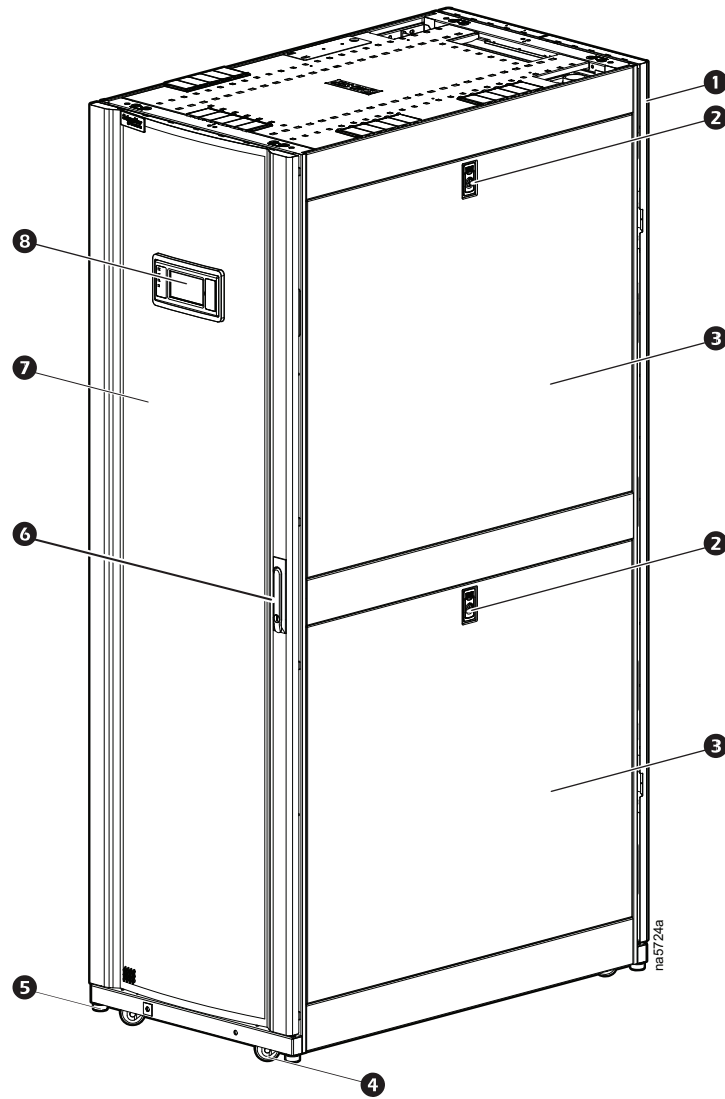
| Item | Description | Quantity | Item | Description | Quantity |
|------|--|----------|------|--|----------|
| 1 | Union end | 2 | 14 | M6 x 10-mm self-tapping TORX screw (spare parts) | 5 |
| 2 | Humidifier PLC pipe thread, shutoff, 1/4-in. NPT* (ACRC600P and ACRC601P only) | 1 | 15 | M6 x 16-mm TORX screw with washer (spare parts) | 5 |
| 3 | Humidifier PLC pipe thread, shutoff, 1/4-in. BSPT** (identified with notches on the hex head portion) (ACRC600P and ACRC602P only) | 1 | 16 | Strain relief, metal(ACRC602 and ACRC602P only) | 2 |
| 4 | Condensate pump HFC35 pipe thread, shutoff, 3/8-in. BSPT** | 1 | 17 | Wire clip | 9 |
| 5 | Hose adapter clamp (ACRC60xP only) | 2 | 18 | Cable tie | 10 |
| 6 | Extension adapter | 2 | 19 | Tie wrap, 200 mm (8 in.) | 10 |
| 7 | Ring seal | 4 | 20 | Tie wrap – field wiring, 390 mm (15.3 in.) | 3 |
| 8 | Reducer, 3/8-in. to 1/2-in. BSPT** | 1 | 21 | Resistor, 150 Ohm | 1 |
| 9 | Reducer, 3/8-in. to 1/2-in. NPT* | 1 | 22 | Temperature sensor | 3 |
| 10 | Hose adapter (ACRC60xP only) | 1 | 23 | Top power cord set(ACRC600 and ACRC602 only) | 1 |
| 11 | M5 x 12 mm screw (ACRC60x only)(spare parts) | 1 | 24 | Voltage jumper | *** |
| 12 | M5 x 10-mm TORX® screw with washer(spare parts) | 5 | 25 | Up-connection adapter | 1 |
| 13 | M6 x 12-mm TORX screw with washer (spare parts) | 5 | | | |

*National Pipe Thread

**British Standard Pipe Thread

***Quantity varies depending on model number. See Voltage Selections—ACRC60x Units, page 60 and see Voltage Selections—ACRC60xP Units, page 61.

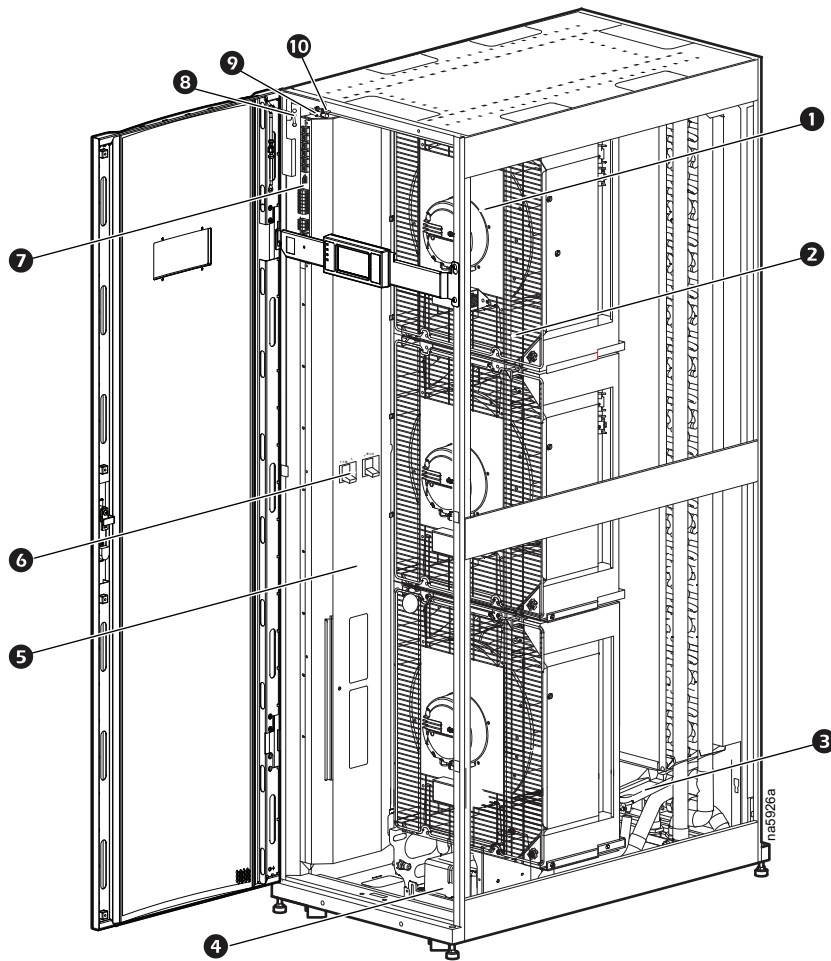
External Components



| Item | Description | Item | Description |
|------|----------------------|------|--------------------------|
| 1 | Removable rear doors | 5 | Adjustable leveling foot |
| 2 | Side panel lock | 6 | Door handle and lock |
| 3 | Removable side panel | 7 | Removable front door |
| 4 | Caster | 8 | Display Interface |

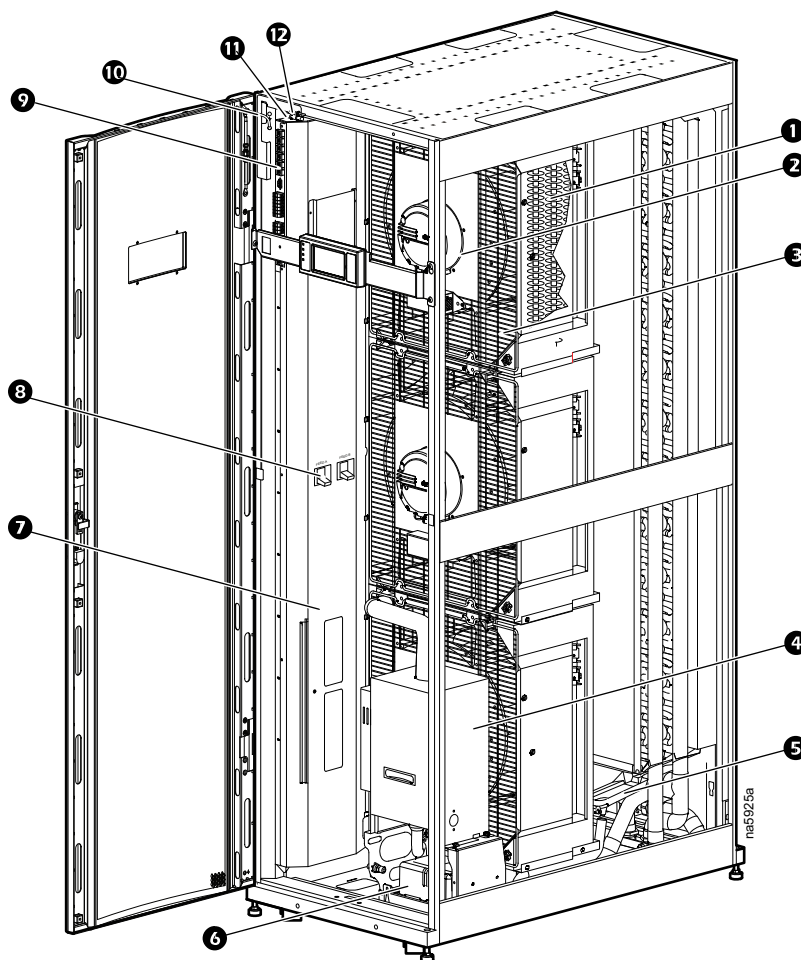
Internal Components (Front)

ACRC60x



| Item | Description | Item | Description |
|------|----------------------|------|-------------------------------|
| 1 | Fan | 6 | Main feed breakers |
| 2 | Fan Guard | 7 | Customer interface connectors |
| 3 | Condensate drain pan | 8 | Ground wire |
| 4 | Condensate pump | 9 | Supply air humidity sensor |
| 5 | Electrical panel | 10 | Supply air temperature sensor |

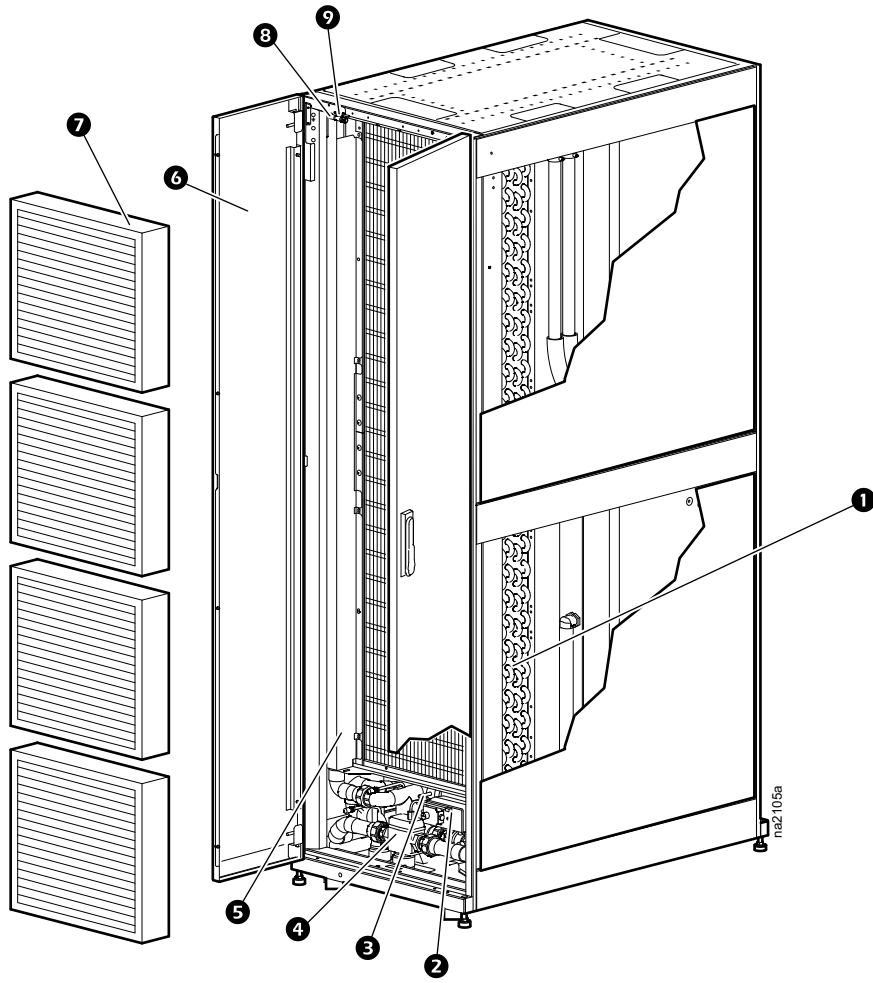
ACRC60xP



| Item | Description | Item | Description |
|------|----------------------|------|-------------------------------|
| 1 | Fan | 6 | Main feed breakers |
| 2 | Fan Guard | 7 | Customer interface connectors |
| 3 | Condensate drain pan | 8 | Ground wire |
| 4 | Condensate pump | 9 | Supply air humidity sensor |
| 5 | Electrical panel | 10 | Supply air temperature sensor |

Internal Components (Rear)

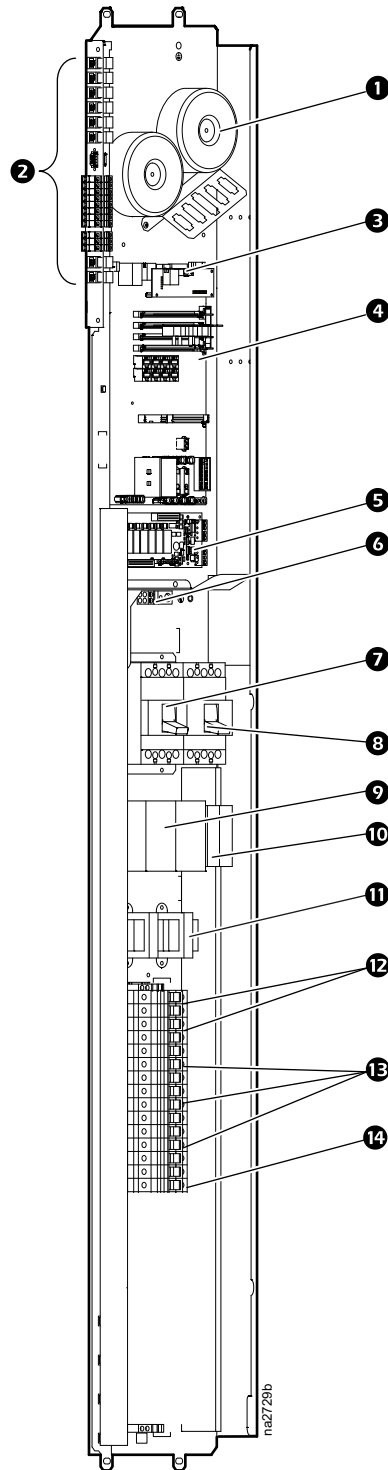
ACRC60x, ACRC60xP



| Item | Description | Item | Description |
|------|------------------------------------|------|---|
| 1 | Chilled-water coil | 6 | Rear doors |
| 2 | Chilled-water control actuator | 7 | Air filters |
| 3 | Chilled-water three-way valve body | 8 | Return humidity sensors (ACRC60xP only) |
| 4 | Flow meter | 9 | Return temperature sensor |
| 5 | Pipe Chase | | |

Electrical Panel

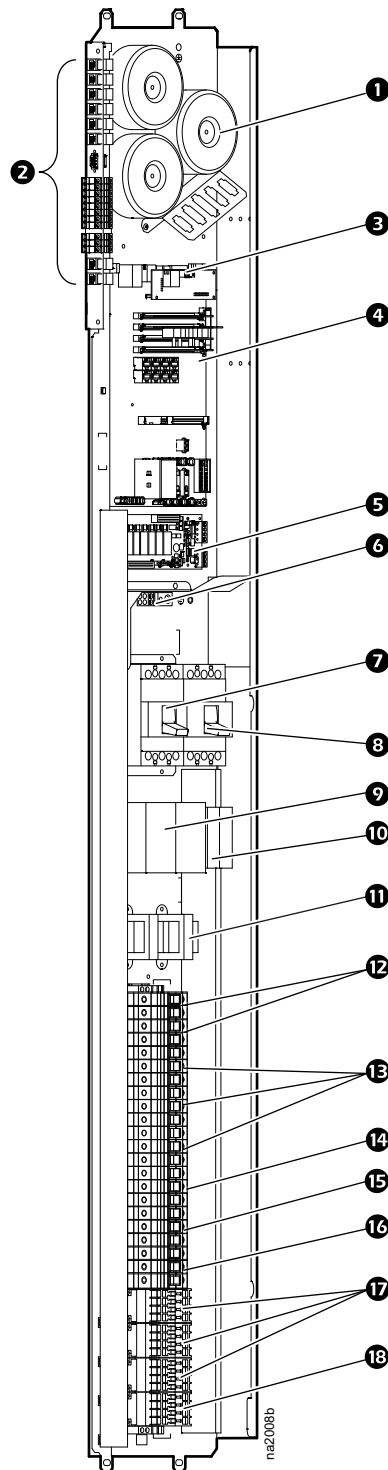
ACRC60x



| Item | Description | Item | Description |
|------|-------------------------------|------|--|
| 1 | Transformers | 8 | Main circuit breaker-Power Feed B |
| 2 | Customer interface connectors | 9 | Automatic Transfer Switch (ATS) contactors |
| 3 | Display interface connection | 10 | ATS Timers |
| 4 | Main controller board | 11 | ATS transformer (ACRC 601 and ACRC 602 only) |
| 5 | Relay board | 12 | ATS timer circuit breakers |

| Item | Description | Item | Description |
|-------------|-----------------------------------|-------------|--------------------------|
| 6 | Ground lug | 13 | Fan circuit breakers |
| 7 | Main circuit breaker-Power Feed A | 14 | Controller fuse assembly |

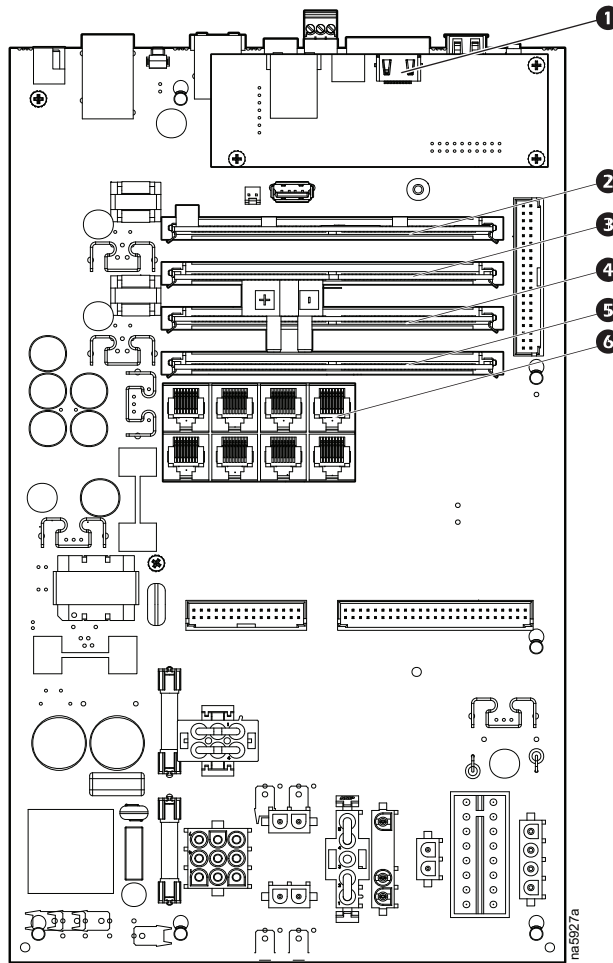
ACRC60x



| Item | Description | Item | Description |
|------|-----------------------------------|------|--|
| 1 | Transformers | 10 | ATS Timers |
| 2 | Customer interface connectors | 11 | ATS transformer (ACRC 601P and ACRC 602P only) |
| 3 | Display interface connection | 12 | ATS timer circuit breakers |
| 4 | Main controller board | 13 | Fan circuit breakers |
| 5 | Relay board | 14 | Controller fuse assembly |
| 6 | Ground lug | 15 | Humidifier circuit breaker |
| 7 | Main circuit breaker-Power Feed A | 16 | Heater circuit breaker |

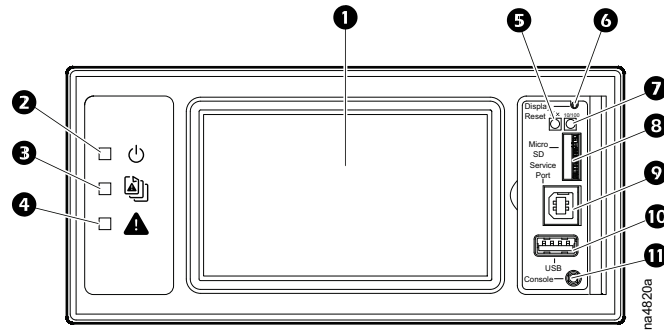
| Item | Description | Item | Description |
|-------------|---|-------------|----------------------|
| ⑧ | Main circuit breaker-Power Feed B | ⑰ | Heater contactor |
| ⑨ | Automatic Transfer Switch (ATS) contactor | ⑱ | Humidifier contactor |

Main Controller Board



| Item | Description |
|------|-------------------------------|
| 1 | Display interface connection |
| 2 | R2 SIMM card |
| 3 | Differential pressure SIMM |
| 4 | Internal RS485 SIMM |
| 5 | OPTO-isolated input SIMM |
| 6 | Temperature sensor connectors |

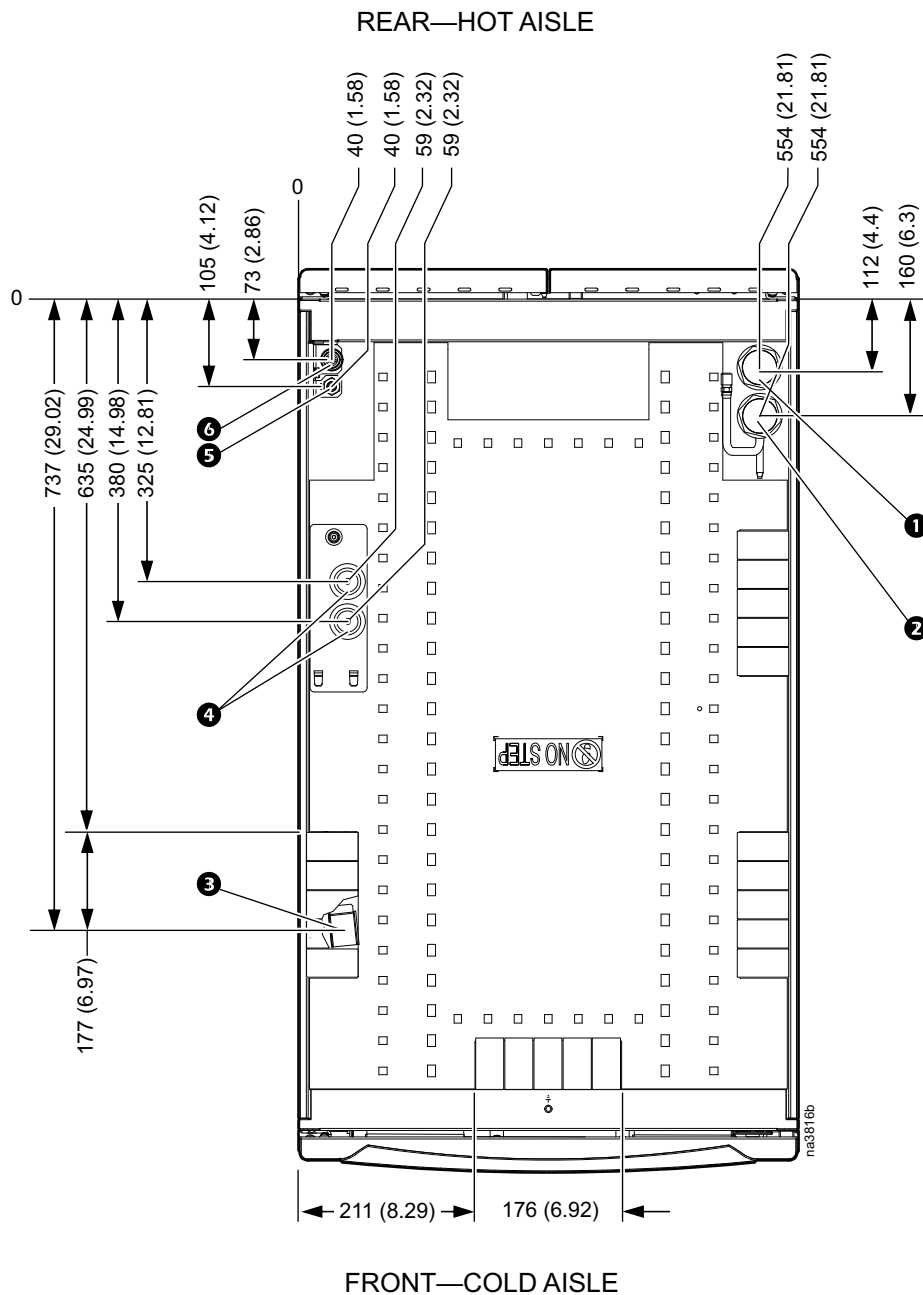
Display Interface



| Item | Description | Function |
|------|---------------------------|--|
| 1 | LCD Display | 4.3-inch touch-screen color display |
| 2 | Power LED | The cooling unit is powered when the LED is illuminated. Unit firmware is updating when LED is blinking. |
| 3 | Check Log LED | When this LED is illuminated, a new entry has been made to the event log. |
| 4 | Alarm LED | Displays current alarm condition of unit. |
| 5 | Status LED | Displays current network management card status. |
| 6 | Display Reset button | Resets the display microprocessor. This has no effect on the air conditioner controller. |
| 7 | Link-RX/TX (10/100) LED | Displays current network link status. |
| 8 | Micro SD card slot | Memory card expansion slot. |
| 9 | Service port | USB-B port used only by service personnel. |
| 10 | USB-A port | Supports firmware upgrades. |
| 11 | Serial Configuration port | Connects the display to a local computer to configure initial network settings or access the command line interface (CLI). |

Piping and Electrical Access Locations

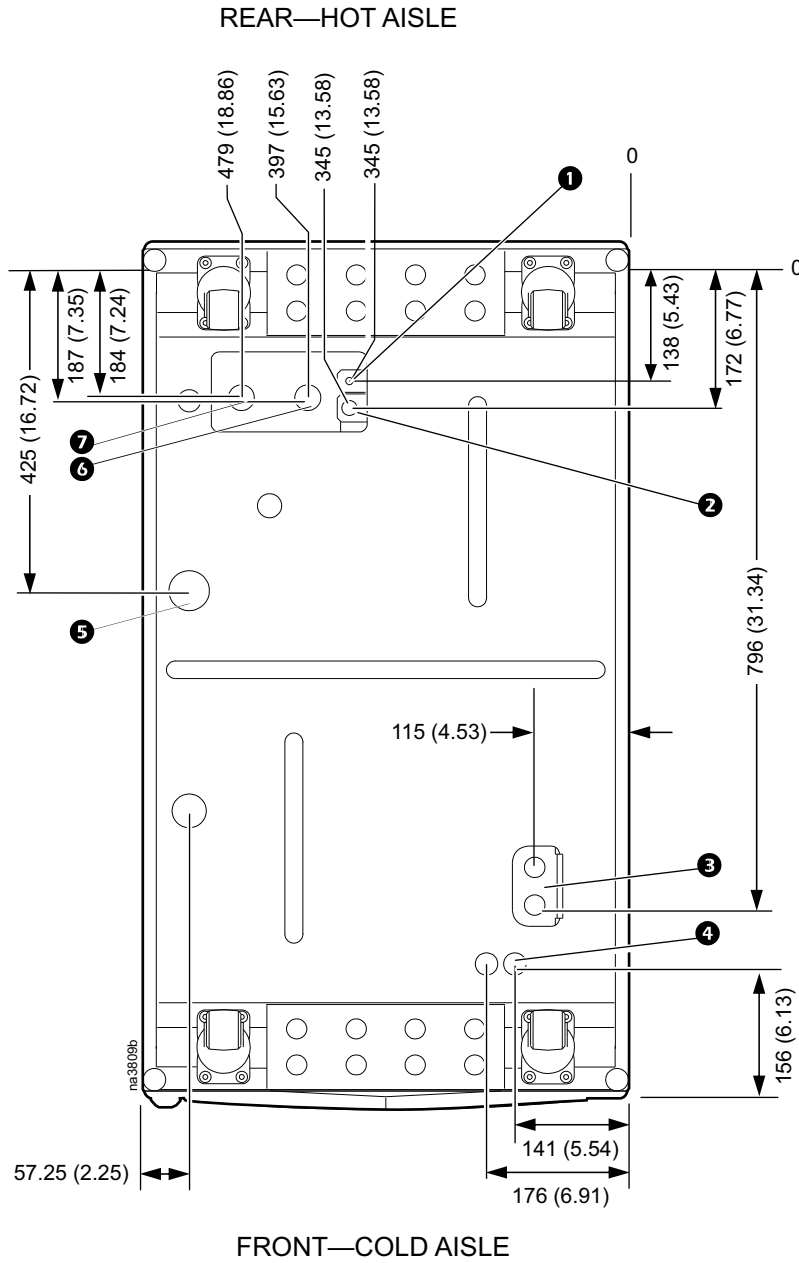
Top Piping and Power Access Locations (Top View)



NOTE: Dimensions are shown in mm (in.)

| Item | Description |
|------|-----------------------------------|
| ① | Chilled-water inlet |
| ② | Chilled-water outlet |
| ③ | Trough for communication cables |
| ④ | Power connections—dual feed |
| ⑤ | Humidifier supply (ACRC60xP only) |
| ⑥ | Condensate drain |

Bottom Piping and Power Access Locations (Bottom View)



NOTE: Dimensions are shown in mm (in.)

| Item | Description |
|------|---|
| 1 | Humidifier supply (ACRC60xP only) |
| 2 | Condensate drain |
| 3 | Power connections—dual feed |
| 4 | Communication connections—27.80 mm (1.09 in.) |
| 5 | Condensate overflow |
| 6 | Chilled-water inlet |
| 7 | Chilled-water outlet |

Connections

All connections to and from the equipment can be made through either the top or the bottom of the equipment. All connections are made with quick-disconnect connectors so no soldering, welding, or gluing is necessary. See the following tables for information about the sizes and types of connectors.

| Power Connections for Power Feed A and Power Feed B | | | | |
|---|--------------------------------|-----------------------------------|-------------------------|--------------------------|
| Model | Minimum Circuit Ampacity (MCA) | Maximum Overload Protection (MOP) | Full Load Amperes (FLA) | Rated Load Amperes (RLA) |
| ACRC600 | 11.1 | 15 | – | – |
| ACRC601 | 6.8 | 15 | – | – |
| ACRC602* | 7.0 | 15 | 5.8** | 5.8 |
| ACRC600P | 50.1 | 60 | – | – |
| ACRC601P | 24.8 | 30 | – | – |
| ACRC602P* | – | – | 24** | – |

*Consult local and national codes for wire size, conduit requirements, and overload protection.

**Local or national codes may require the installation of external disconnects. Two disconnects would be required and must be rated properly for equipment.

| Piping Connection | Type | ACRC600 ACRC601 ACRC602 | ACRC600P | ACRC601P ACRC602P |
|-------------------------|----------------|------------------------------------|------------------------------------|------------------------------------|
| Chilled water supply | Union* | 1 1/2 in. NPSM | 1 1/2 in. NPSM | 1 1/2 in. NPSM |
| Chilled water return | Union* | 1 1/2 in. NPSM | 1 1/2 in. NPSM | 1 1/2 in. NPSM |
| Condensate drain | Quick coupling | 1/2 in. female NPT or BSPT fitting | 1/2 in. female NPT or BSPT fitting | 1/2 in. female NPT or BSPT fitting |
| Humidifier water supply | Quick coupling | 1/4 in. NPT or BSPT | 1/4 in. NPT | 1/4 in. BSPT |

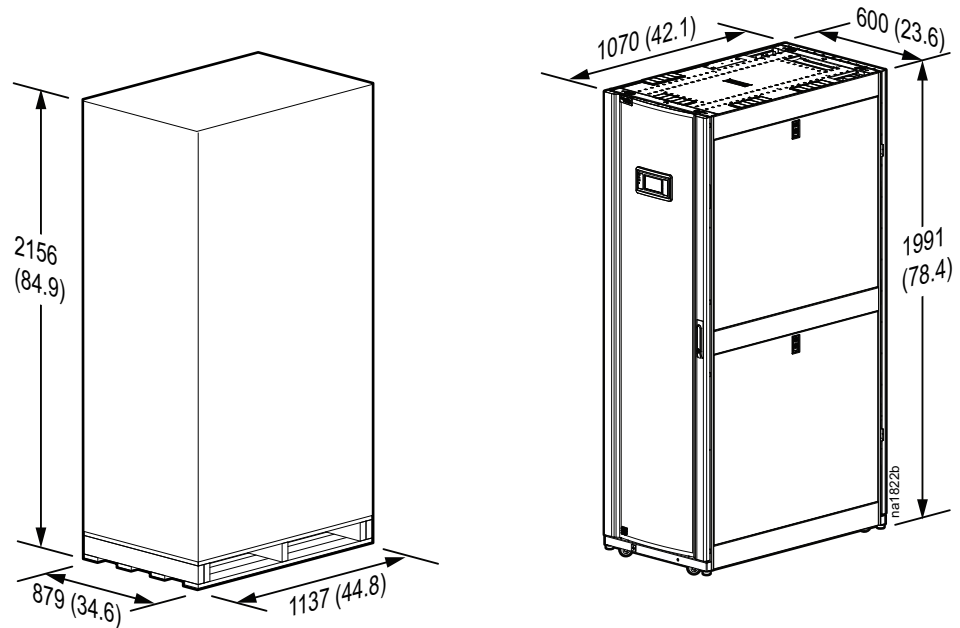
*If the ring seal is damaged, use a new seal (supplied) to prevent leakage. Torque union to 20 Nm (15 lb ft).

| Communication Connections | Type | Minimum Wire Size | Maximum Wire Size | Torque |
|-------------------------------------|-----------------|------------------------------|-------------------------------|--------|
| Rack temperature 1 | RJ-45 | – | – | – |
| Rack temperature 2 | RJ-45 | – | – | – |
| Rack temperature 3 | RJ-45 | – | – | – |
| A-Link IN | RJ-45 | – | – | – |
| A-Link OUT | RJ-45 | – | – | – |
| Network port | RJ-45 | – | – | – |
| Customer output, NC—Normally Closed | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Customer output, COM—Common | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Customer output, NO—Normally Open | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Supply GND | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Supply 12 VDC | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Supply 24 VDC | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Customer input + | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Customer input - | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Modbus D1 | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Modbus D0 | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |

| Communication Connections | Type | Minimum Wire Size | Maximum Wire Size | Torque |
|----------------------------------|-----------------|------------------------------|-------------------------------|---------------|
| Modbus GND | Screw connector | 0.2 mm ² (AWG 24) | 0.75 mm ² (AWG 18) | 0.6 Nm |
| Temperature sensor (front) | RJ-45 | – | – | – |
| Humidity sensor (front) | RJ-45 | – | – | – |

Dimensions and Weights

Dimensions



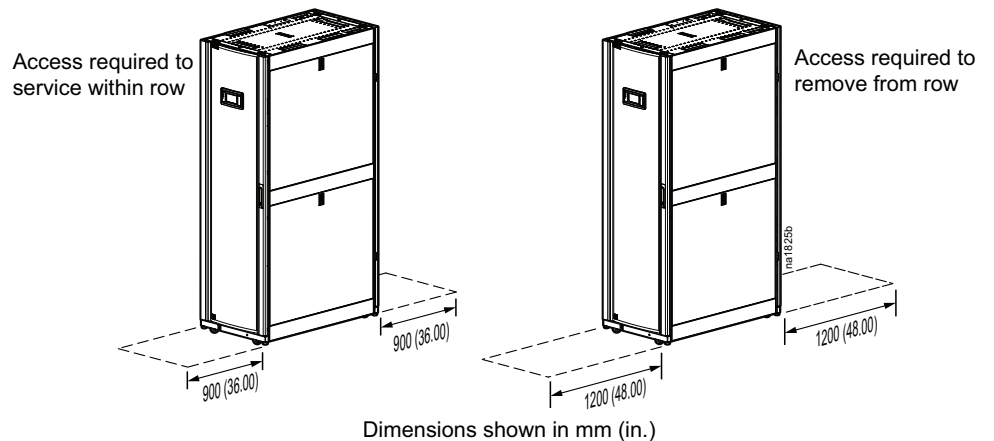
Weights

| Model | Packed Weight—kg (lb) | Unpacked Weight—kg (lb) |
|------------------------------|-----------------------|-------------------------|
| ACRC600, ACRC601, ACRC602 | 405 (892) | 345 (760) |
| ACRC600P, ACRC601P, ACRC602P | 412 (907) | 352 (776) |

Service access

An area of minimum 900 mm (36 in.) of clear floor space in front of and behind the equipment is recommended for service. All required normal maintenance can be performed from the front or back of the equipment. An area of minimum 1200 mm (48 in.) of clear space is front of or behind the equipment is recommended to roll the equipment out of a row.

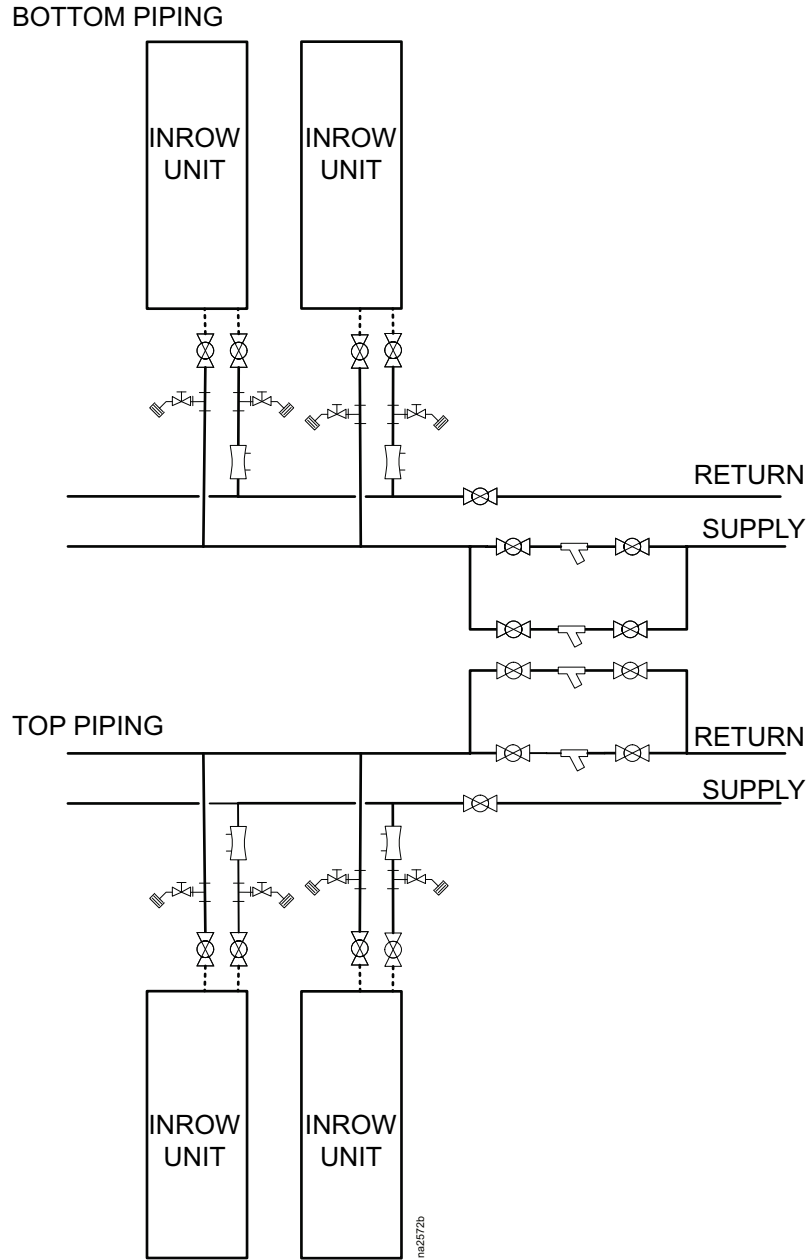
NOTE: Check local and national codes and regulations for further services access requirements.



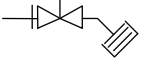



Diagrams

Piping Diagram

Bottom Piping



| Item | Description |
|---|--|
| ----- | Flex hose or copper |
| ———— | Copper tubing |
|  | Y-strainer with 20 mesh screen (field installed) NOTE: Blow down may be installed on Y-strainer. |
|  | Circuit setter (field installed) |
|  | Hose end drain with cap |
|  | Isolation valve |

NOTE: Top or bottom entry can be selected individually for each type of connection: power, condensate drain, humidifier water supply, chilled water supply, and chilled water return. Top piping configuration will have the same valves and strainers as bottom piping configuration.

Installation

Removing Doors and Panels

⚠ WARNING

MOVING PARTS HAZARD

All doors and side panels must be locked during normal operation. Do not open the side panels while the fans are operating.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

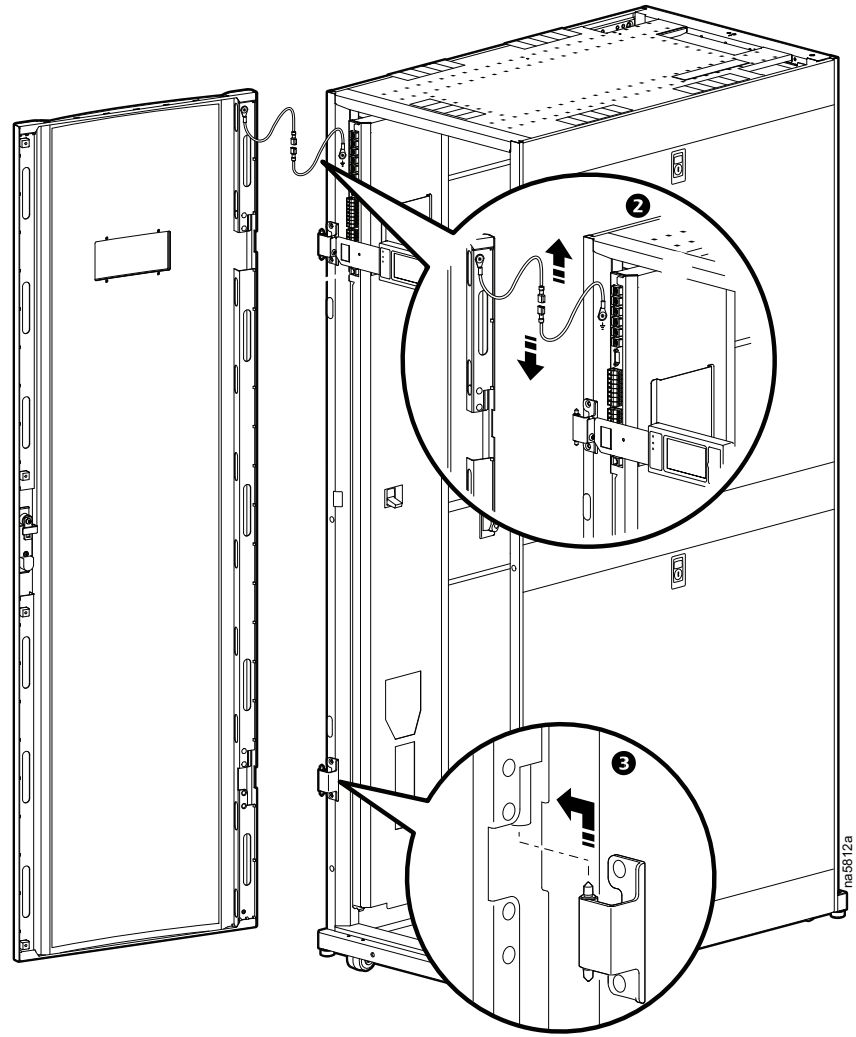
EQUIPMENT DAMAGE

Do not lean the doors against a wall with the side panel latches facing the wall. This can deform the latches and prevent them from properly working.

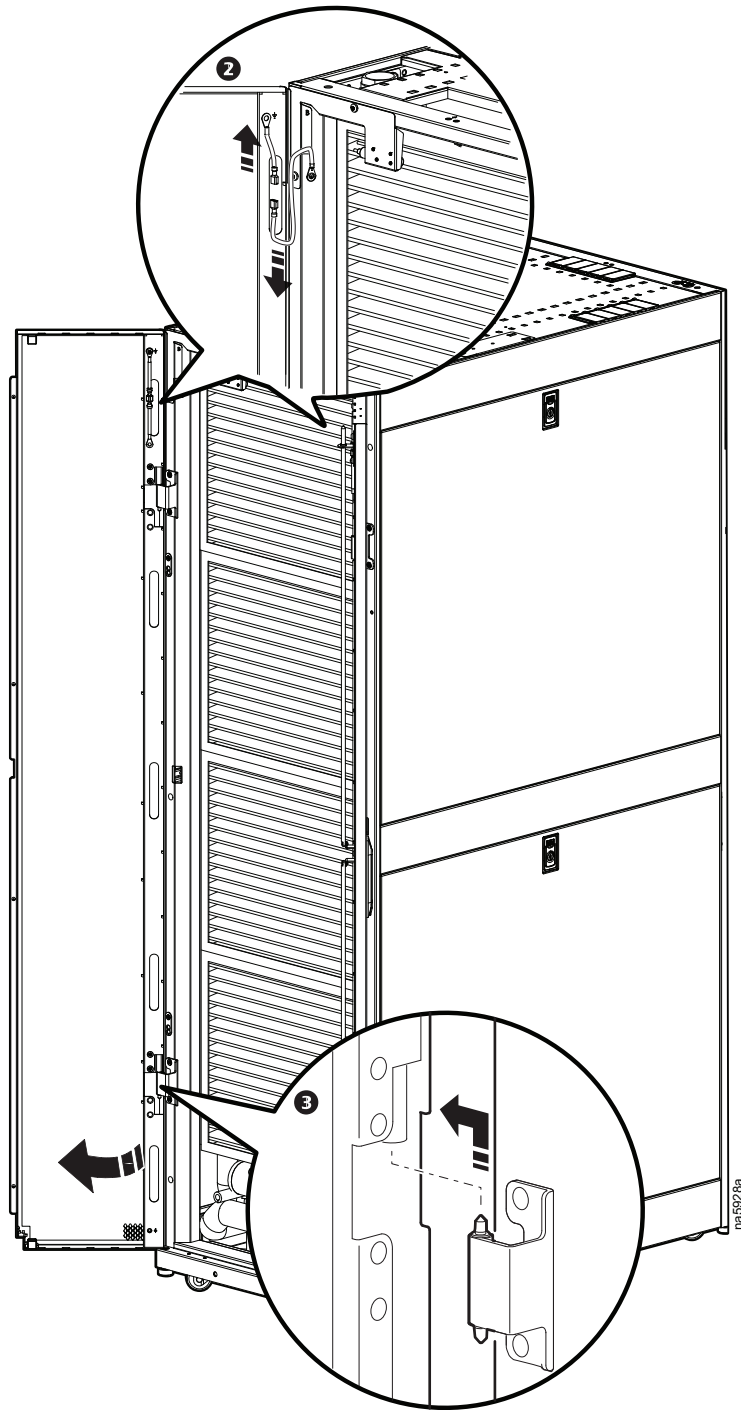
Failure to follow these instructions can result in equipment damage.

Removing the Front Doors

1. Unlock and open the door 90 degrees.
2. Unplug the ground wires.
3. Lift the door up and off the hinges.



Removing the Rear Doors

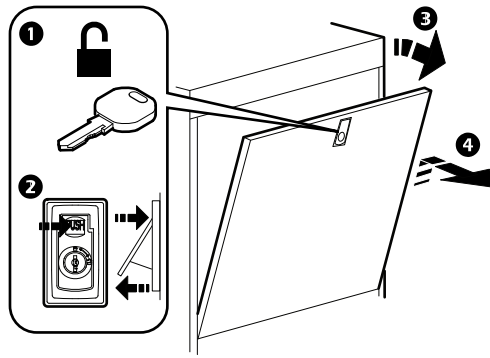


1. Unlock and open the doors.
2. Unplug the ground wires.
3. Lift the door up and off the hinges.

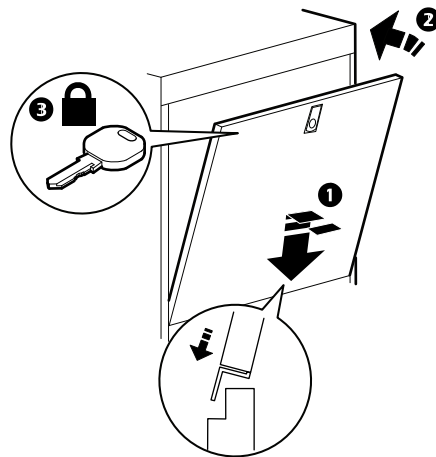
na5928a

Side Panels

REMOVING THE SIDE PANEL



INSTALLING THE SIDE PANEL



na5720b

Electrical Panel Access

⚠️ ⚠️ WARNING

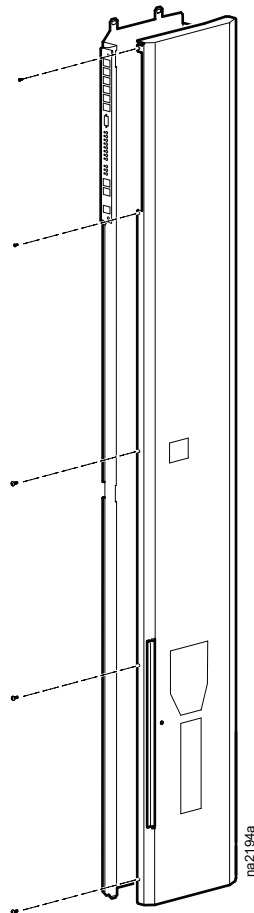
ELECTRICAL HAZARD

Ensure all wiring is not energized before routing cables into this equipment. Only qualified service and maintenance personnel should work on this equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Remove the electrical panel cover to install the main power cable.

1. Remove the five M4 screws securing the cover.
2. Remove the cover by opening it and sliding it toward the front of the equipment.



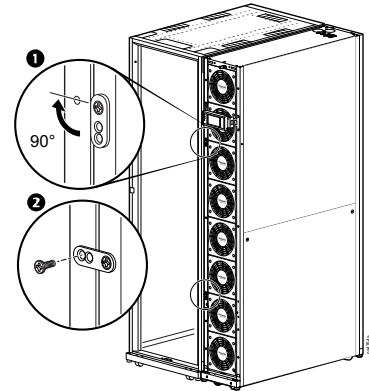
Joining the Equipment to Enclosures

Joining to NetShelter™ SX Enclosures

Joining brackets are installed on the unit, two in the front and two on the rear. Each bracket is designed to accommodate both 24-in. or 600-mm enclosure spacing.

NOTE: Image is an example only: the unit may differ.

1. Loosen the attachment screw.
2. Rotate the brackets 90°.
3. Install a provided Phillips M5 screw through the bracket and into the adjoining enclosure.
4. Retighten the attachment screw.



Joining to NetShelter VX and VS Enclosures



For information on joining the equipment to NetShelter VX and VS enclosures, see the installation sheet *NetShelter SX to VX or VS External Joining Kit—AR7601, AR7602*.

Leveling the Equipment

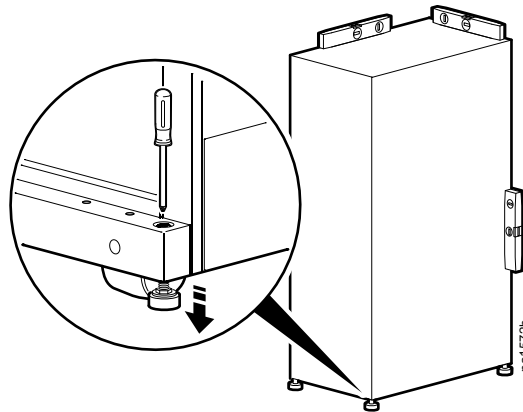
NOTICE

WIRING HAZARD

After re-installing the front door, reconnect all wires previously disconnected

Failure to follow these instructions can result in equipment damage.

NOTE: The leveling feet at the corners of the equipment provide a stable base if the floor is uneven, but they cannot compensate for a badly sloped surface



1. Remove the front and rear doors.

Before removing the front door, unplug the ground wires and any other wire connections that may interfere with the removal of the doors.

2. For each leveling foot, insert a Phillips PH2 or standard screwdriver into the screw above the leveling foot. Turn the screw to the right to extend the leveling foot until it makes firm contact with the floor.

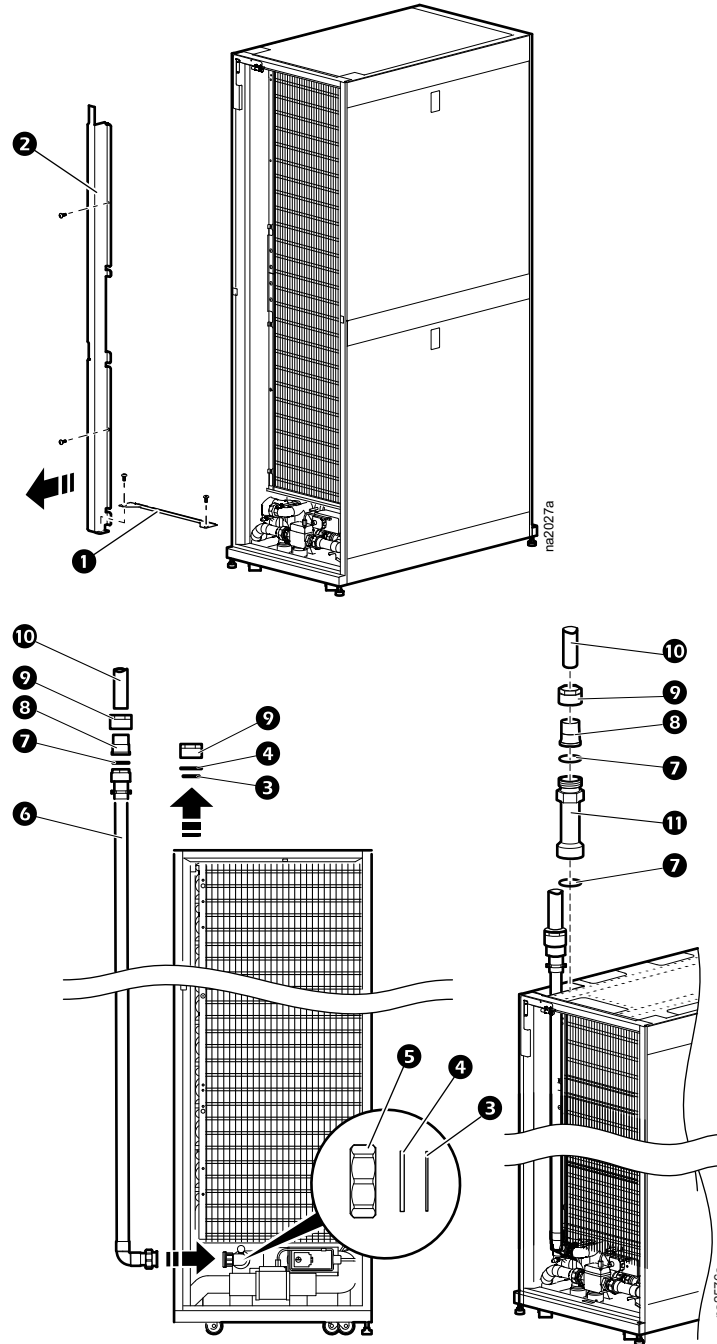
Use a 13-mm open-ended wrench to level the equipment without removing the doors.

3. Re-install the front and rear doors.

Mechanical Connections

Top Water Piping

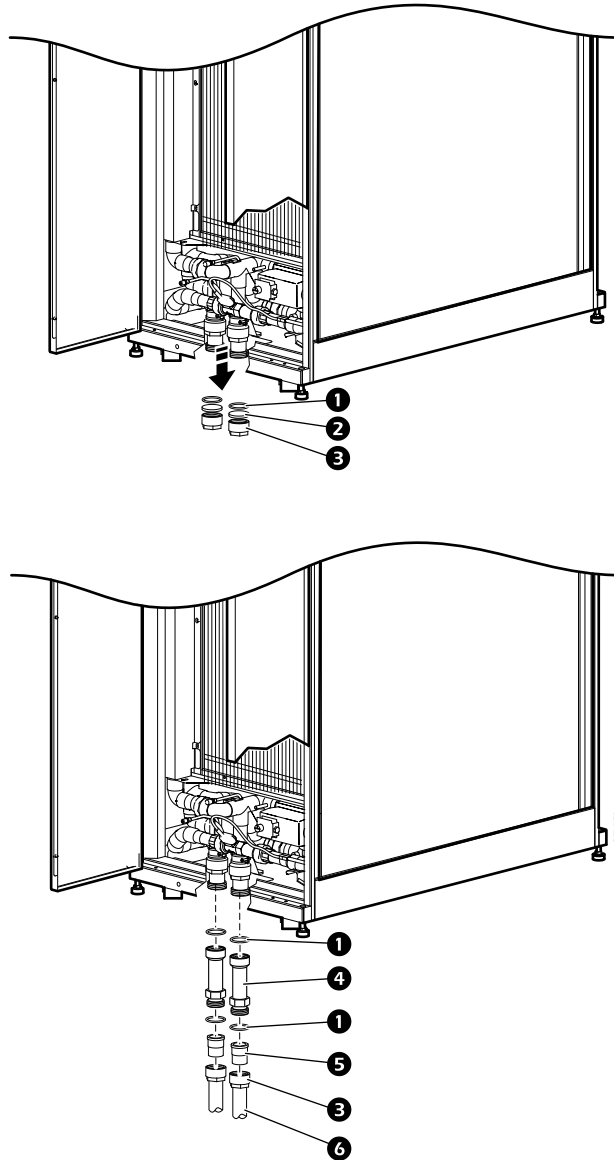
NOTE: The top chilled water supply pipe is supplied with the equipment and must be installed on-site. You may need to remove the top panel from the equipment to gain access to the water connections



1. Remove the air filters
2. Loosen the two screws holding the rear condensate drain pan bracket 1 and remove the bracket.
3. Loosen the two screws holding the air filter bracket 2 located on the left side of the unit and remove the bracket.
4. Remove the insulation cap from the union (not shown).
5. From both supply and return connections, remove the union nuts 5 and save for reuse. Remove and discard the union end blank plates 4 and the gaskets 3.

6. Position the insulated chilled water supply pipe ₆ in the equipment. Mount a new gasket ₃ and connect the pipe to the union. Tighten the union to 20 Nm (14.8 ft-lb).
7. Insulate the joint with the provided insulation (not shown).
8. Connect the water supply pipe ₆ to the field-installed pipe : using a gasket ₇ union end ₈ and union nut ₉.
9. Connect the cold water return fitting to the field-installed pipe : using two gaskets ₇ and union end ₈, union nut ₉ and extension adapter .
10. Reinstall air filter bracket ₂.
11. Reinstall the rear condensate drain pan bracket ₁ and the air filters.
12. Reinstall the top panel, if removed.

Bottom Water Piping



1. Remove the insulation cap from the union $_1$ (not shown).
2. Remove the union nut $_3$ and save it for reuse. Remove and discard the union end blank plate $_2$ and the ring seal $_1$.

NOTE: New items are provided with the equipment.

3. Install the union nuts $_3$ to field-supplied tubing $_6$.
4. Install new ring seals $_1$, extension adapters $_4$, and insertion adapters $_5$, as shown.
5. Connect the pipe to the union. Tighten the union to 20 Nm (14.8 ft-lb).

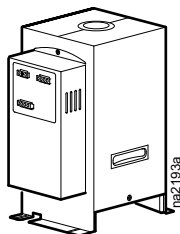
Humidifier (ACRC60xP Only)

NOTICE

COMPLIANCE REQUIREMENT

The installation must comply with local plumbing codes.

Failure to follow these instructions can result in equipment damage.

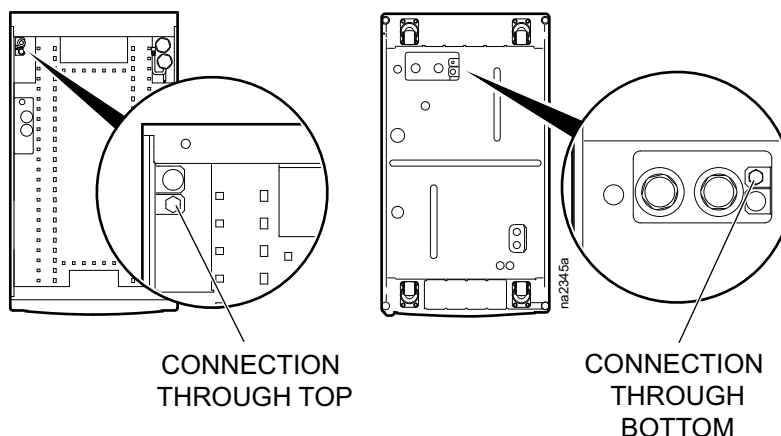


The humidifier water supply line is routed to the unit in flexible tubing (or alternative tubing approved by local building codes) that will allow the humidifier water supply line connector to be moved approximately 25 mm (1 in.) away from the equipment. This facilitates removing the equipment from a row.

A factory-installed quick-connector for connecting the tubing to the equipment is supplied. The quick connector has a male 1/4-in. NPT or male 1/4-in. BSPT to connect to a compression fitting. The quick-connector has a shut-off function, so no separate shut-off valve is necessary.

The humidifier water supply line can be connected through either the top or the bottom of the equipment as shown. Male quick-connectors are positioned in both the top and the bottom of the equipment.

Water pressure should be between 100 and 800 kPa (15 and 115 psi) for proper humidifier operation. Dirty water must be filtered before it is supplied to the humidifier. Water temperature must be between 1°C and 40°C (34°F and 104°F). Do not use softened, de-mineralized, or de-ionized water.



See the manual included with the humidifier for more information about water quality, mineral content, hardness, and minimum/maximum levels for conductivity.

NOTE: Before making any connections, clear any debris that may have accumulated during assembly from the humidifier water supply line.

NOTE: It is recommended that a solenoid water valve be installed in the humidifier supply line, connected to a leak detector.

Connect the fittings to the humidifier water supply line as shown, then connect the water supply line quick-connector to the top or bottom humidifier input.

Condensate Overflow

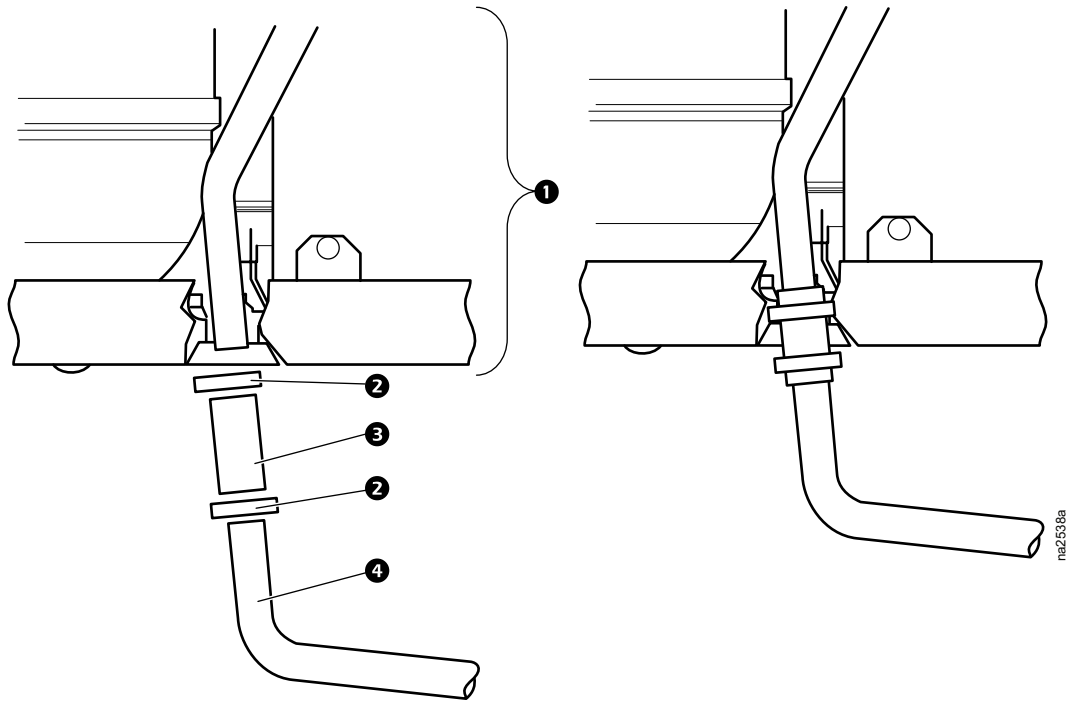
NOTICE

WATER DAMAGE

Failing to perform the following procedure may result in condensate pan overflow and possible damage to the data center.

Failure to follow these instructions can result in equipment damage.

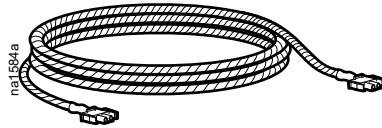
Connect the equipment condensate overflow line to an external drain using the fittings, as shown.



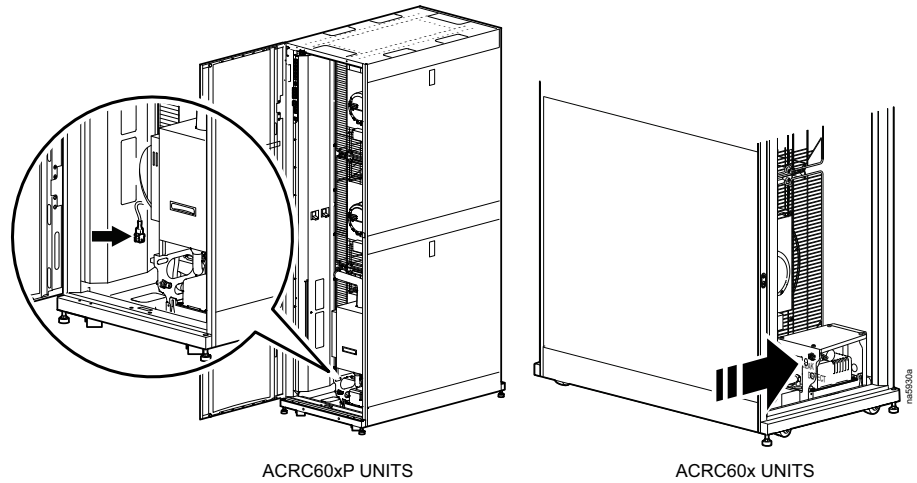
| Item | Description |
|------|--|
| 1 | InRow Unit |
| 2 | Hose adapter clamp (supplied) |
| 3 | Hose adapter (supplied) |
| 4 | 7/8-in. copper tubing (field supplied and installed) |

Leak Sensor (Optional)

Install up to four leak sensors (AP9326) in series, as needed.



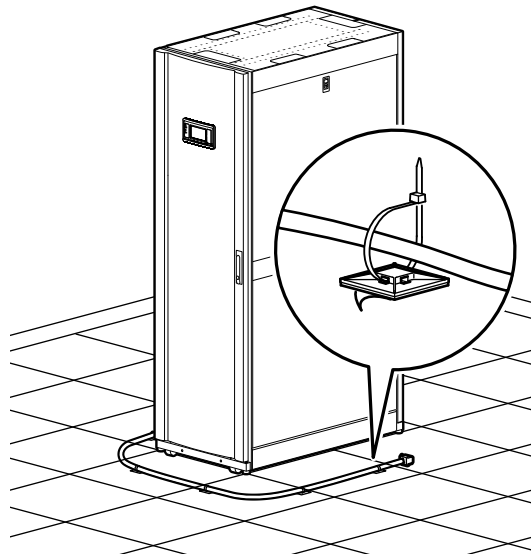
1. Connect the leak sensor to the equipment using the plug located as shown.



2. Position the leak sensor inside or outside the equipment..

NOTE: Install leak sensors on a clean surface, and do not allow them to touch metal that is in an air stream.

3. Route the leak sensor to the outside of the equipment through the hole provided in the base.
4. Secure the leak sensor wire to surfaces using cable ties and cable tie holders (provided with the leak detector).



Filling and Purging the Unit

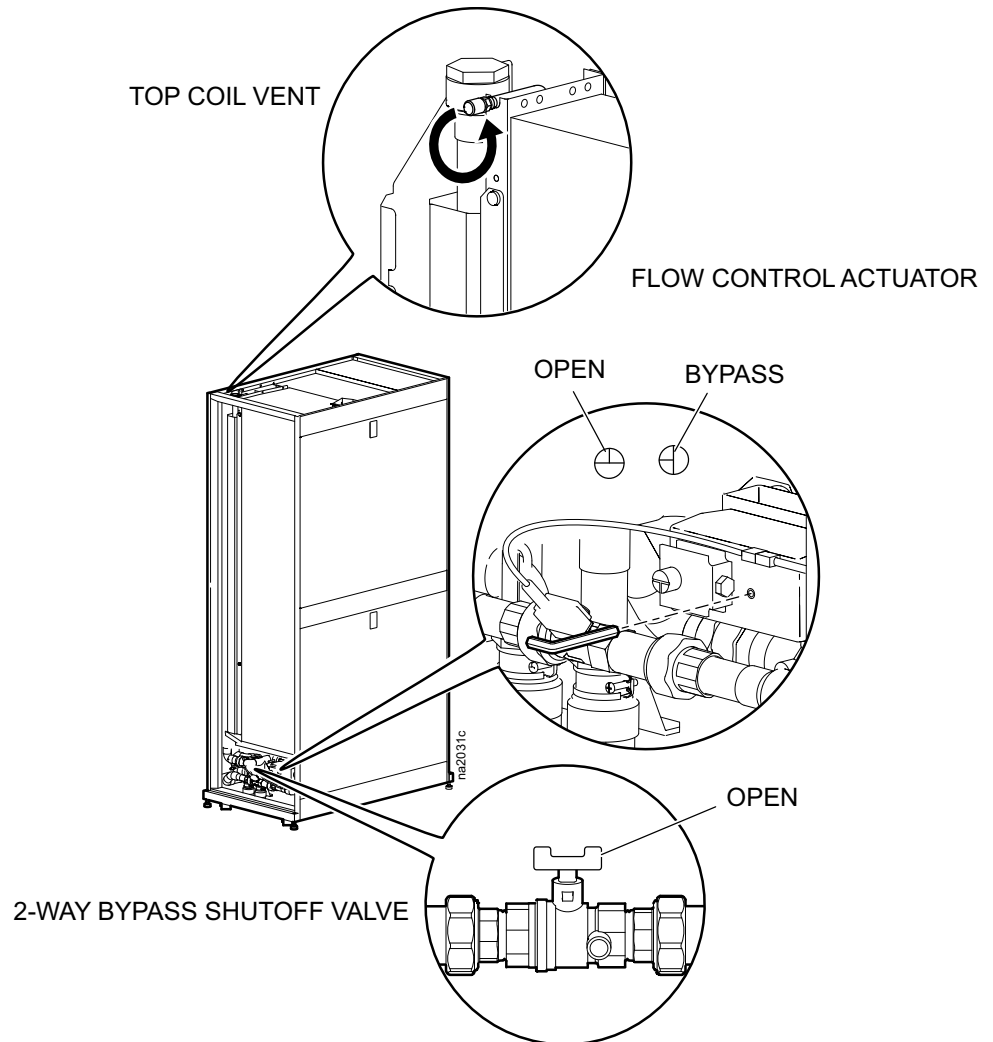
When the unit has been properly piped, begin the filling process (top piping configuration shown).

⚠️ ⚠️ WARNING

ELECTRICAL HAZARD

Ensure that all electrical connections are unplugged before you introduce water into the unit.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



1. Open the 2-way bypass shutoff valve by turning the handle 90° to the right. Using a 2.5-mm hex key, turn the flow control actuator to the fully open position.
2. Remove the cap from the top coil vent and push the vent.
3. At the water supply, open the appropriate valves to begin letting water slowly into the unit.
4. Stop pushing the top coil vent when water begins slowly flowing out of the vent.

5. At the water supply:
 - a. Open all valves no greater than 113 l/m (30 GPM), and allow the water supply to reach the highest possible flow to the unit for 45 seconds.
 - b. Close the valves to a 3.8–11.4 l/m (1–3 GPM) flow for 60 seconds.
 - c. Open the valves to maximum flow for another 45 seconds.
 - d. Balance the system to provide the designed flow rate to all equipment.

Chiller

Three types of chillers can be connected to the unit:

- Schneider Electric size-matched chiller/thermal storage system.
- Building chilled-water system.
- Existing dedicated chiller.

Cooling Unit Requirements

| | |
|---|-----------------------------|
| Entering water temperature | 7.2–12.8°C (45–55°F) |
| Weight of unit fully flooded with chilled-water (ACRC60x units) | 363 kg (800 lb) |
| Weight of unit fully flooded with chilled-water (ACRC60xP units) | 370 kg (816 lb) |
| Flow rate | 1.2–2.5 l/s (19.0–39.6 GPM) |



See the chiller Installation Manual, and Operation and Maintenance Manual for proper installation procedures.

Electrical Connections

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- This equipment must be installed and serviced by qualified and trained personnel only.
- Turn off all power supplying this equipment before working on or inside the equipment.
- Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Potentially dangerous and lethal voltages exist within this unit. More than one disconnect switch may be required to energize or de-energize this equipment. Observe all cautions and warnings. Failure to do so could result in serious injury or death. Only qualified service and maintenance personnel may work on this equipment.

Failure to follow these instructions will result in death or serious injury.

WARNING

ELECTRICAL HAZARD

- Electrical service must conform to local and national electrical codes and regulations.
- The equipment must be grounded.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

The following electrical connections are required in the field:

- Controls (customer interface connections, Network Management Card)
- Communication (A-Link, Building Management System)
- Power to the Uniflair Direct Expansion InRow Cooling unit (single-phase plus ground)



See the electrical schematic (located on the electrical box) for all electrical connections.



See the equipment name plate for voltage and current requirements.

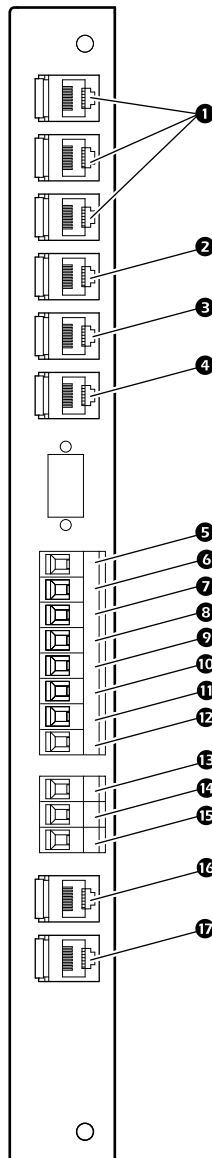
All low-voltage connections, including data and control connections, must be made with properly insulated wires. Low-voltage wiring must be insulated based on the wiring with which it is routed. The low-voltage connections must have 300-V minimum insulation.

NOTE: A power disconnect is required to isolate each unit for maintenance and servicing.

Customer Interface Connections

NOTE: Wire all input and output connections as Class 2 circuits.

Depending on the configuration, additional customer interface connections may be required for the A-Link remote communications through the Network Management Card support or traditional equipment-monitoring software.



| Item | Description |
|------|--|
| 1 | Rack inlet temperature sensors 1, 2, 3 |
| 2 | A-Link IN |
| 3 | A-Link OUT |
| 4 | Network port |
| 5 | Customer output, NC (normally closed) |
| 6 | Customer output, COM (common) |
| 7 | Customer output, NO (normally open) |
| 8 | Supply GND (Ground) |
| 9 | Supply 12 Vdc (current limit: 20 mA) |
| 10 | Supply 24 Vdc (current limit: 20 mA) |

| Item | Description |
|------|--|
| 11 | Customer input + (12–30 Vac/Vdc, 24 Vdc @ 11 mA) |
| 12 | Supply COM |
| 13 | Modbus D0 |
| 14 | Modbus D1 |
| 15 | Modbus GND |
| 16 | Supply air temperature sensor (front) |
| 17 | Supply air humidity sensor (front) |

NOTE: For a top installation, route control wiring through the wire channel located at the top left hand corner just above the customer interface connectors.

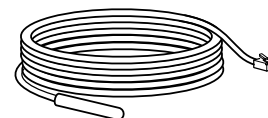
For a bottom installation, route the control wiring to the customer access hole in the bottom of the equipment through wire clamps from the interface connectors. Then, route the wiring down along the electrical panel and secure with wire clamps.

Description of Customer Interface Connectors

| Item | Description | Function |
|------|---------------------------------------|--|
| 1 | Rack temperature sensors 1, 2, 3 | Three temperature sensors, which must be installed on the cold aisle side of the server racks. See <i>Rack Air Temperature Sensors</i> , page 50. |
| 2 | A-Link IN | In and out connections for A-Link. The terminators supplied with the equipment must be plugged into the first A-link port and the final A-Link port for the system. |
| 3 | A-Link OUT | |
| 4 | Network port | |
| | | Status LED—blinks orange and green at startup; indicates the status of the network connection (solid green—IP address established; blinking green—attempting to obtain an IP address). |
| | | Link LED—blinks to indicate network traffic (green—operating at 10 mbps; orange—operating at 100 mbps). |
| 5 | Customer output, Normally Closed (NC) | Customer-configurable output relay which can be activated for all types of alarms or critical alarms. The relay can be connected to external equipment using 30 Vac/dc, 2 A. |
| 6 | Customer output, Common (COM) | |
| 7 | Customer output, Normally Open (NO) | |
| 8 | Supply GND | Can be used for customer input and output interface. |
| 9 | Supply 12 Vdc | Can be used for customer input and output interface. Current limit is 20 mA. |
| 10 | Supply 24 Vdc | Can be used for customer input and output interface. Current limit is 20 mA. |
| 11 | Remote shutdown+ | Used for remote shutdown of the InRow unit. Voltage is applied from the internal power supply or by using an external power supply. |
| 12 | Remote shutdown- | Ground connection point for remote shutdown supply source. |
| 13 | Modbus D0 (RXTX-) | Connections for Building Management System. Wire a 150 Ohm terminator resistor (supplied) into the final InRow unit, between Modbus D0 and Modbus D1. |
| 14 | Modbus D1 (RXTX+) | |
| 15 | Modbus GND | |
| 16 | Supply air temperature sensor (front) | Temperature sensor installed on the front of the equipment. |
| 17 | Supply air humidity sensor (front) | Humidity sensor installed on the front of the equipment. |

Rack Air Temperature Sensors

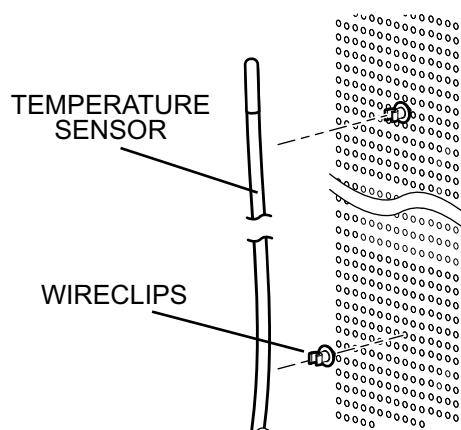
The rack air temperature sensors control unit airflow and ensure an adequate supply of cooling air to the server racks in the data center. The unit is supplied with three external rack temperature sensors. These sensors are attached on the unit front door.



Installation

NOTE: Rack temperature sensor installation is not required if the equipment operates in Rack Air Containment System (RACS) or Hot Aisle Containment System (HACS) mode. The Uniflair InRow configuration requires temperature sensor installation.

1. Insert the rack temperature sensor connector in the temperature sensor port on the customer interface panel.
 - a. For a top installation, push the rack temperature sensor through the wire channel located at the top of the unit in the left hand side above the electrical box.
 - b. For a bottom installation, route the sensor through the wire clamps along the electrical panel and then push the sensor through the customer access inlet in the bottom of the unit.
2. Route the sensor through either the top or the bottom of the adjacent server rack.
3. Secure the temperature sensor cable to the front door of the adjacent server rack at multiple locations using the provided wire clips as shown.



NOTE: Remote rack sensors must be installed for proper operation.

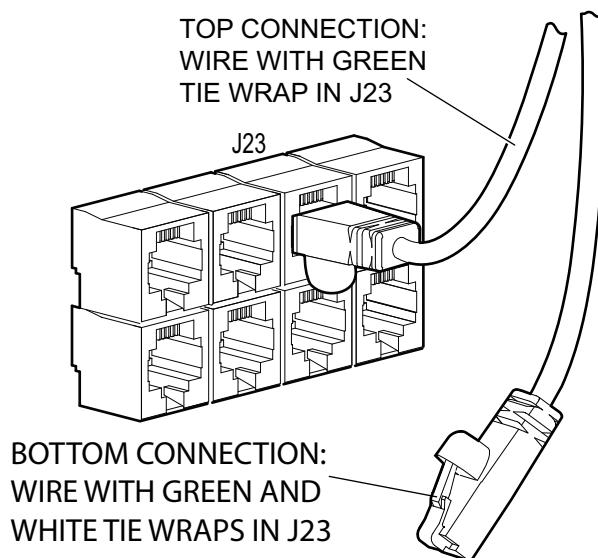
The sensors should be located on racks that are adjacent to the cooling unit. The optimum position of the rack temperature sensors will vary from installation to installation but should be located in close proximity to fan-cooled IT equipment to ensure accurate readings. Servers most likely to have insufficient or inadequately cooled cooling air due to the recirculation of hot air from the hot aisle include:

- Servers positioned at the top of a rack
- Servers positioned at any height in the last rack at an open end of a row
- Servers positioned behind flow-impairing obstacles such as building elements
- Servers positioned in a bank of high-density racks
- Servers positioned next to racks with Air Removal Units (ARU)
- Servers positioned very far from the equipment
- Servers positioned very close to the equipment

Water Outlet Temperature Sensors

There are two water outlet temperature sensors, one for top connection and one for bottom connection. These sensors are wired to the main board on the electrical panel.

The unit is delivered with top connection as the default configuration, i.e., the wire with a green tie wrap is positioned in connector J23 (marked with green) on the main board. If the configuration is changed from top to bottom, switch the wire already positioned in the connector J23 with the wire labeled with a green and a white tie wrap. This wire is part of the wire harness inside the electrical panel.



Communication Connections

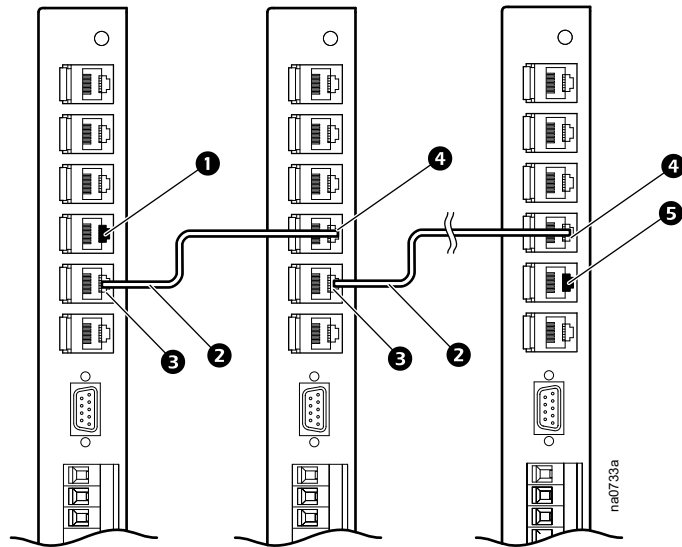
A-Link Connections

The A-Link bus connection allows multiple InRow cooling units (up to twelve) to communicate with one another. Only one InRow cooling unit must be defined through the display interface; other InRow cooling units are numbered automatically.

To enable the InRow units to work as a group, link them using the supplied cables, or CAT-5 cables with RJ-45 connectors. A terminator (150 Ohm, 1/4 W) is installed in the A-Link port, and must remain inserted into the A-Link ports of the first and final InRow units only.

The maximum wire length for the entire group may not exceed 1000 m (3280 ft).

INROW UNIT 1 INROW UNIT 2 INROW UNIT 3

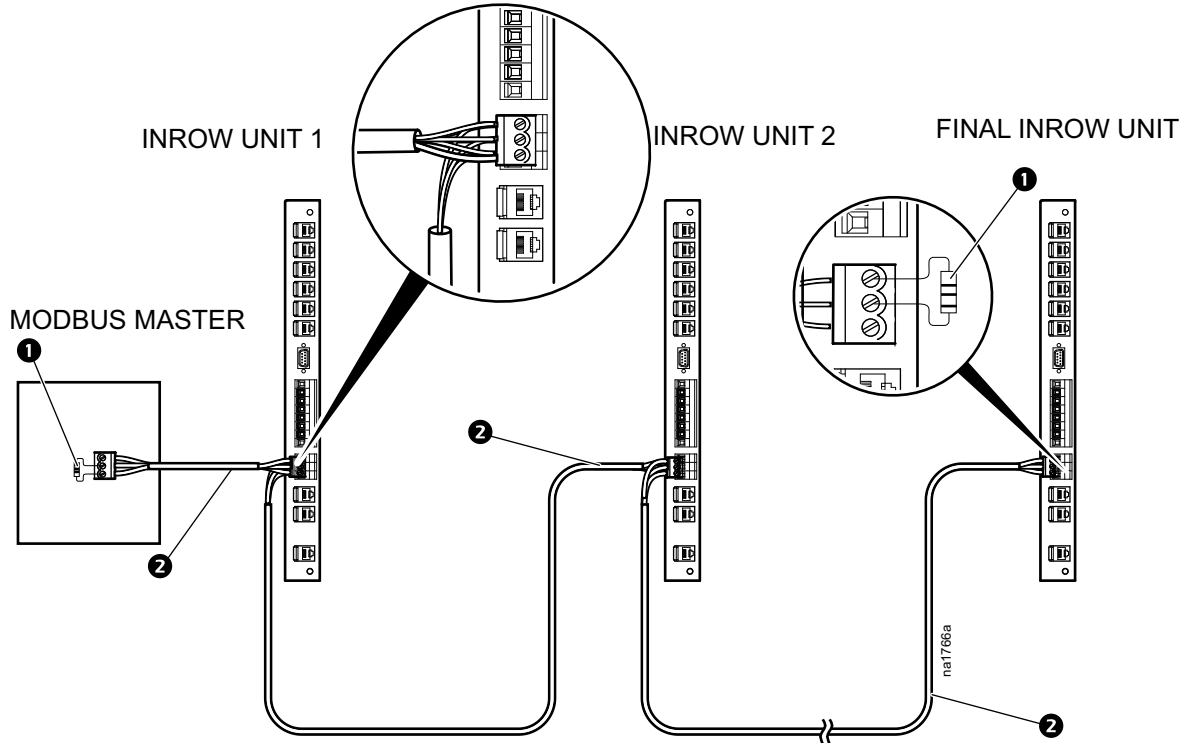


| Item | Description |
|------|--|
| 1 | A-Link IN port (with provided RJ-45 terminator) |
| 2 | A-Link cable (CAT-5 Ethernet cable) |
| 3 | A-Link out port |
| 4 | A-Link in port |
| 5 | A-Link OUT port (with provided RJ-45 terminator) |

Building Management System (BMS)

The Modbus interface allows each InRow cooling unit to communicate with the BMS. Use a three-wire cable to connect each cooling unit in turn. Wire a 150 Ohm, 1/4-W terminator resistor (included) into the MODBUS master and the final cooling unit between Modbus D0 and Modbus D1.

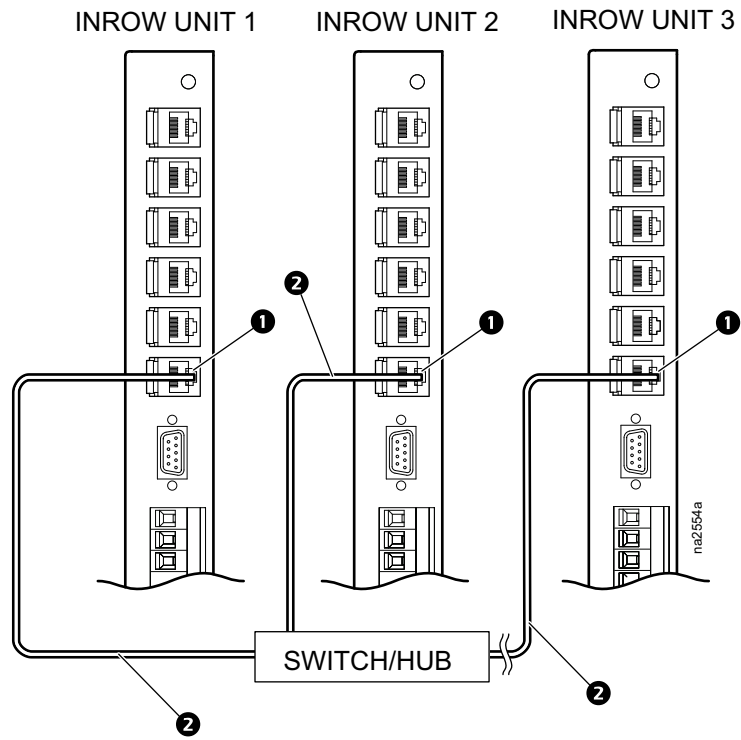
MODBUS master and the final cooling unit between Modbus D0 and Modbus D1. Each cooling unit has a three-wire Modbus terminal on the user interface. Use a connector with screw terminals to allow wiring to be attached.



| Item | Description |
|------|---------------------------------|
| 1 | Termination resistor (provided) |
| 2 | Modbus cable (RS-485) |

Network Port

The network port allows communication from the cooling unit to the network.



| Item | Description |
|------|---------------------------|
| 1 | Network port |
| 2 | LAN cable (10/100 Base-T) |

Power Connections

Wiring Configurations

⚡⚡ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- This equipment must be installed and serviced by qualified and trained personnel only.
- Turn off all power supplying this equipment before working on or inside the equipment.
- Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

⚡⚡ WARNING

ELECTRICAL HAZARD

- Electrical service must conform to local and national electrical codes and regulations.
- The equipment must be grounded.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚡ WARNING

HAZARD TO EQUIPMENT OR PERSONNEL

All work must be performed by Schneider Electric qualified and trained personnel.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTE: To ease installation and future removal of the equipment for repairs, use flexible conduit for the power wiring.

Route incoming power from the PDU or electrical service panel to the electrical panel located in the left side of the equipment. Route power either through the top or the bottom of the equipment.

For ACRC600 and ACRC602 units, incoming power may be supplied to the equipment using the supplied power cords through the top only.

Install Power Cords (ACRC600 and ACRC602 only)

⚡⚡ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

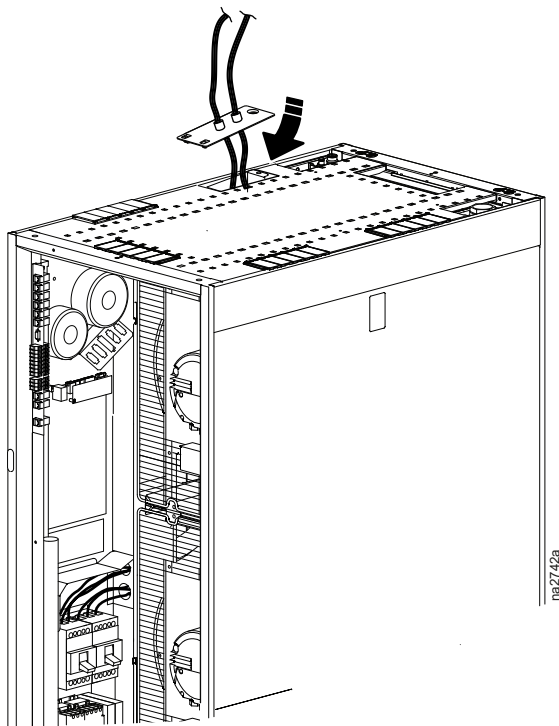
Turn off all power supplying this equipment before working on the equipment. All electrical work must be performed by qualified personnel. Apply Lockout/Tagout procedures. Do not wear jewelry when working with electrical equipment.

Failure to follow these instructions will result in death or serious injury.

⚠ ⚠ WARNING**ELECTRICAL HAZARD**

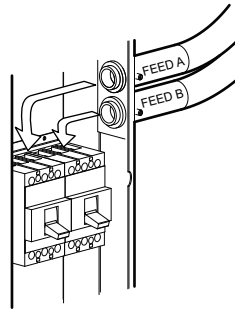
- Electrical service must conform to local and national electrical codes and regulations.
- The equipment must be grounded.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



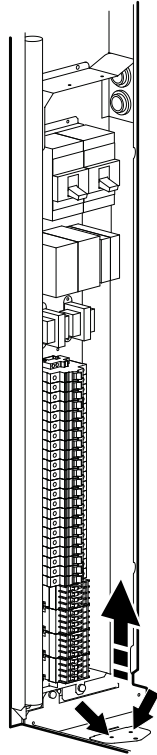
1. Remove the factory-installed knockout plate from the top of the equipment. See *Top Piping and Power Access Locations (Top View)*, page 23. Save the screw for later use.
2. Remove the electrical panel cover. See *Electrical Panel Access*, page 34.
3. Observe the markings on the two power cords. Insert feed A in the conduit closest to the front of the equipment, and feed B in the conduit closest to the rear of the equipment.
4. Connect the L1, L2, and L3 leads of feed A and feed B to the two circuit breakers per the label above the breakers. Torque the screws per the torque values marked on the breakers. Connect the grounds to the terminal above the circuit breakers.
5. Secure the connection plate to the top panel of the equipment using the screw you removed earlier.
6. Reinstall the electrical panel cover

Top Routing



1. Remove the electrical panel cover. See [Electrical Panel Access](#), page 34.
2. Remove the factory-installed knockout plate from the top of the equipment. See [Top Piping and Power Access Locations \(Top View\)](#), page 23. Save the screw for later use.
3. Enlarge the two pilot holes in the knockout plate as needed to accept conduit connectors.
4. Attach the conduit connectors to the knockout plate.
5. Secure the knockout plate to the top of the equipment.
6. Route power cabling to the main breakers as shown.
7. Connect feed A and B power wiring to the tops of the two main circuit breakers using the torque specified on the breakers. Connect the phases of the two power feeds as marked next to the terminals.
8. Connect the ground wires to the ground terminal block located above the main circuit breakers.
9. Reinstall the connection plate and the electrical panel cover.

Bottom Routing

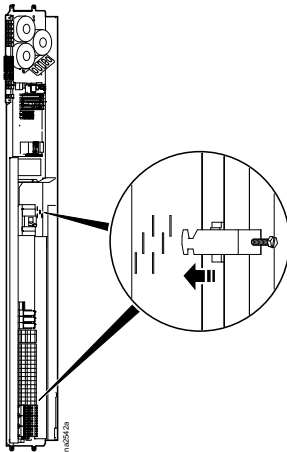


1. Locate the supplied knockout plate.
2. Install the knockout plate on the top of the equipment where you removed the power connection plate and power cords.
3. Locate the power connection plate in the bottom of the unit. See *Bottom Piping and Power Access Locations (Bottom View)*, page 24.
4. Loosen the screw securing the connection plate, and remove the plate.
5. Enlarge the two pilot holes in the connection plate as needed to accept conduit connectors.
6. Attach the conduit connectors to the connection plate. Secure the connection plate to the bottom of the equipment.
7. Route the cabling to the main breakers as shown.
8. Fasten the cabling inside the unit with the provided tie wraps.
9. Connect feed A and feed B power wiring to the tops of the two main circuit breakers using the torque specified on the breakers. Connect the phases of the two power feeds as marked next to the terminals.
10. Connect the ground wires to the ground terminal block located just above the main circuit breakers.
11. Reinstall the connection plate and the electrical panel cover.

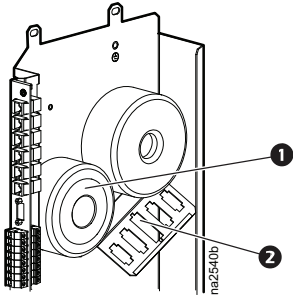
Strain Relief (ACRCD602/ and ACRC602P Only)

Adjustable metal strain relief brackets are provided.

1. Hook one strain relief into a pair of slots in each of the two locations shown.
2. Route the electrical cable up from the bottom of the equipment, passing through the strain reliefs.
3. Tighten the screws on the strain reliefs to capture the electrical cable, taking the weight off of the inner conductors.
4. Continue connecting electrical wiring to the circuit breaker.



Voltage Selections—ACRC60x Units

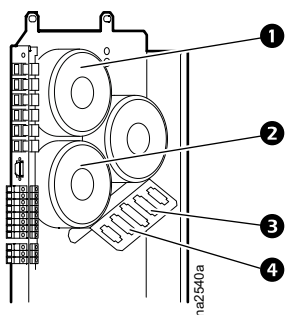


Your equipment can operate at various supply voltages, provided the proper voltage jumpers are connected to the input transformers. Read the part number on the jumpers connected at the factory and compare that number to the table below. If the correct jumpers for your input voltage are not connected, remove them and connect the proper jumper.

| Jumper Connections | |
|--|--|
| Transformer A (1) connected to J50 (2) | |
| | |

| Model | Input Voltage | Use Jumper Part Number |
|--------------|----------------------|-------------------------------|
| ACRC600 | 208 (50/60 Hz) | 0W2540 (default) |
| | 230 (50/60 Hz) | 0W2541 |
| ACRC601 | 460 (60 Hz) | 0W2545 |
| | 480 (60 Hz) | 0W2546 (default) |
| ACRC602 | 380 (50/60 Hz) | 0W2542 |
| | 400 (50/60 Hz) | 0W2543 (default) |
| | 415 (50/60 Hz) | 0W2544 |

Voltage Selections—ACRC60xP Units



Your equipment can operate at various supply voltages, provided the proper voltage jumpers are connected to the input transformers. Read the part number on the jumpers connected at the factory and compare that number to the table below. If the correct jumpers for your input voltage are not connected, remove them and connect the proper jumper.

| Jumper Connections | |
|--------------------|----------------------|
| Transformer A (1) | connected to J51 (3) |
| Transformer A (2) | connected to J50 (4) |
| | |

| Model | Input Voltage | Use Jumper Part Number |
|----------|----------------|------------------------|
| ACRC600P | 208 (50/60 Hz) | 0W2540 (default) |
| | 230 (50/60 Hz) | 0W2541 |
| ACRC601P | 460 (60 Hz) | 0W2545 |
| | 480 (60 Hz) | 0W2546 (default) |
| ACRC602P | 380 (50/60 Hz) | 0W2542 |
| | 400 (50/60 Hz) | 0W2543 (default) |
| | 415 (50/60 Hz) | 0W2544 |

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