

Installation Manual

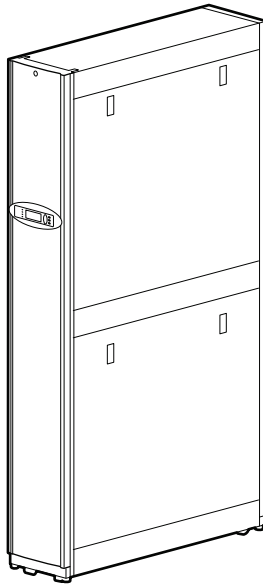
InRow[®] Fluid-Cooled Air Conditioner

InRow[®] DX

ACRD200, ACRD201

990-3213D-001

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Safety

Important Safety Information

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service, or maintain it. The following special 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 label 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 you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTICE

NOTICE addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Safety Considerations While Installing This Equipment

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E or CSA Z462.
- This equipment must be installed and serviced by qualified personnel only.
- Turn off all power supplying this equipment before working on or inside the equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- 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

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.

⚠ WARNING

HAZARD TO EQUIPMENT OR PERSONNEL

All work must be performed by Schneider Electric qualified personnel.

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

⚠ 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.

General Information

Overview

Save these instructions

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

Manual updates

Check for updates to this manual on the Schneider Electric Web site, www.schneider-electric.com/support. Select the **Download Documents and Software** link under the **Support** tab and enter the manual part number or SKU for your equipment in the search field. See the back cover of this manual for the part number.

Cross-reference symbol used in this manual



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

Environmental considerations

Wind: The equipment is not intended for installation in areas of high wind. Consult your sales representative for information on any applicable options for installation in areas of high wind.

Earthquakes: The equipment is not intended for installation in areas at risk of seismic activity. Consult your sales representative for information on any applicable options for installation in areas at risk of seismic activity.

ATEX: The equipment is not intended for use in potentially explosive atmospheres and does not comply with Directive 2014/34 / EU (ATEX).

Corrosion: The equipment is not intended for use in a potentially corrosive environment.

Inspecting the Equipment

Your Schneider Electric InRow[®] RD 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 for information about filing 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.

Storing the Equipment Before Installation

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

NOTICE
HAZARD TO EQUIPMENT
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.

Moving the Equipment

Moving the equipment to its final location

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

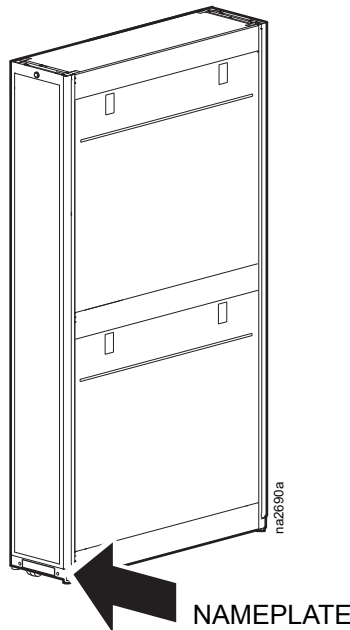
Pallet Jack Forklift



Model Identification

The model number can be found on the outside of the shipping crate and on the nameplate located on the rear of the equipment as shown. Use the table below to verify that the equipment is the correct type and voltage.

Model	Configuration	Voltage	Air Pattern
ACRD200	Fluid-cooled	208-240/1~/60 Hz	Back to front
ACRD201	Fluid-cooled	220-240/1~/50 Hz	Back to front

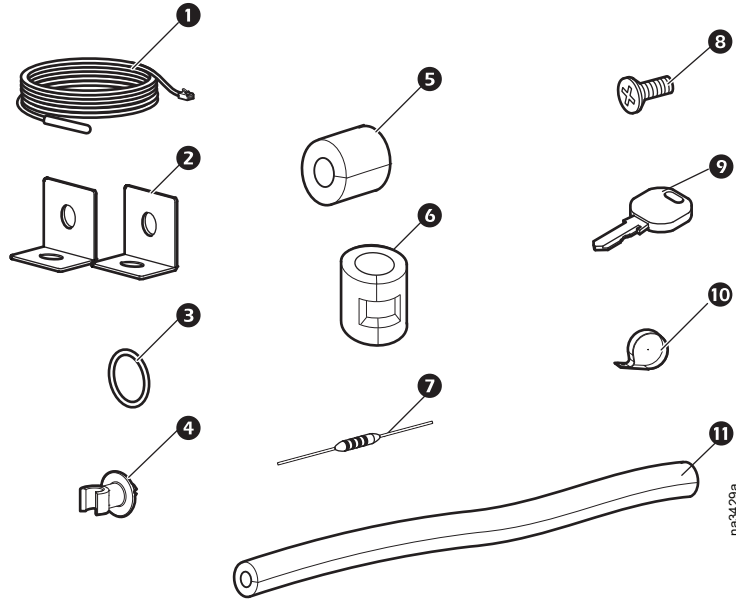


Component Identification

Install Kit

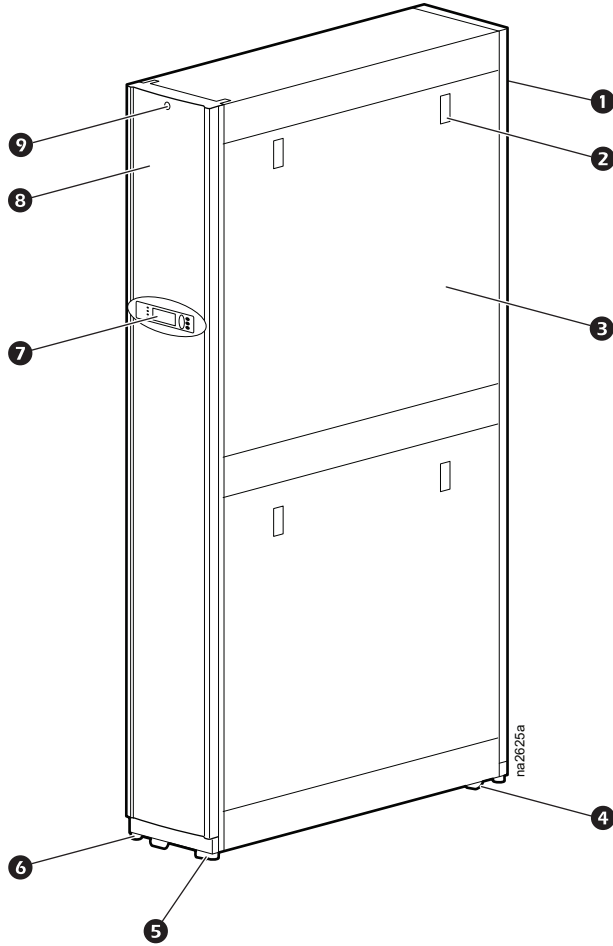
NOTE: Do not discard the install kit.

The install kit contains items that may be necessary to complete the installation of your equipment. Some items are the literature, floor brackets, and hardware to facilitate joining the equipment to enclosures.



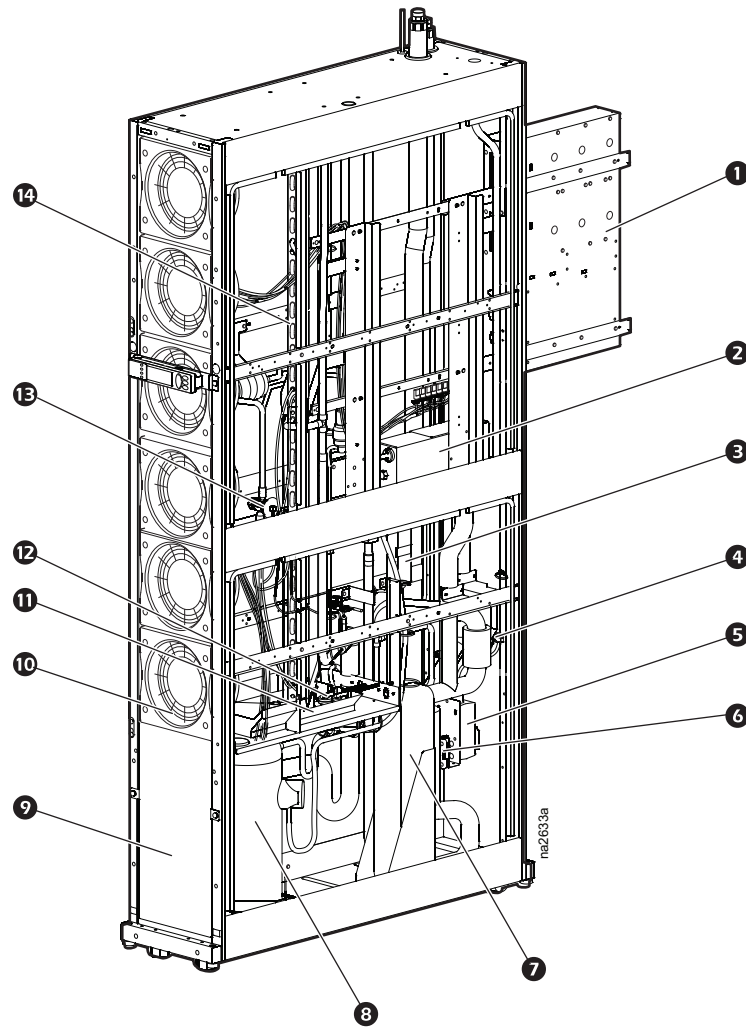
Item	Description	Quantity	Item	Description	Quantity
1	Cable assembly, thermistor/probe - 13 ft	1	7	Resistor, 150 ohm, 1/4 watt	1
2	Netshelter SX bolt-down kit	1	8	Screw, flat head Philips M5 x 12	4
3	Gasket, union - 3/4in	4	9	Key	2
4	Wire clip, thermistor probe	3	10	Nylon push mount, 1-1/4-in. diameter	8
5	Insulation tube - 0.88-in. I.D. x 0.38-in. union cover	4	11	Insulation tube 0.75 I.D. x 0.38 union to clamp (for piping kit liquid lines)	2
6	Pipe clamp boot insulation	2			

Exterior Components (Front)



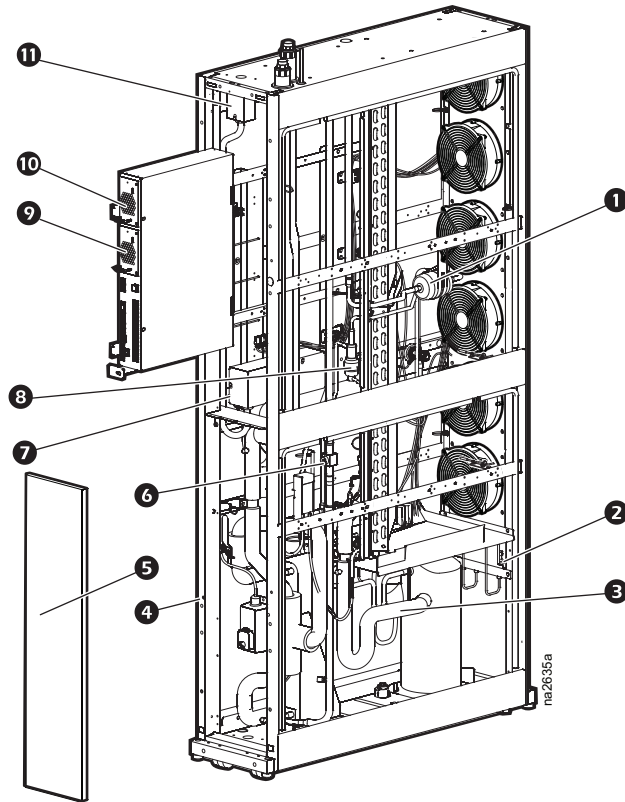
Item	Description
1	Removable rear door
2	Side panel latch
3	Removable side panel
4	Rear casters (non-swiveling)
5	Front casters (swiveling)
6	Adjustable leveling foot
7	Display interface
8	Removable front door
9	Door lock

Interior Components (Front)



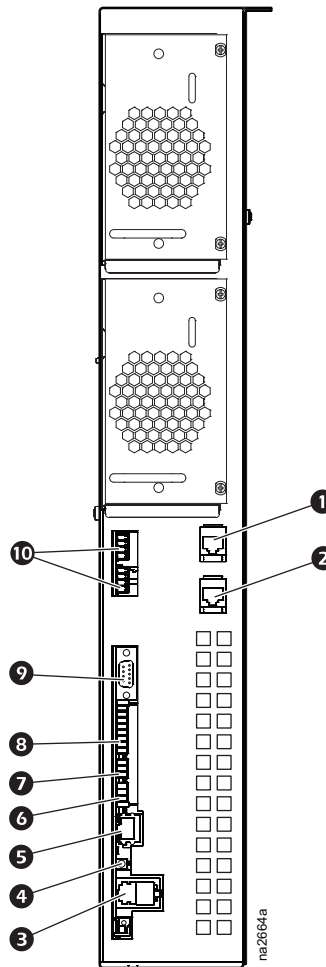
Item	Description	Quantity	Item	Description	Quantity
1	Electrical control box (retractable)	1	8	Compressor	1
2	Electrical control box	2	9	Front air block panel	1
3	Condensate pumps	2	10	Evaporator fans	6
4	Bypass shutoff valve (2-way)	1	11	Condensate pan	1
5	Water control actuator	1	12	Condensate pan floats	2
6	Water regulating valve (3-way)	1	13	Expansion valve	1
7	Brazed plate heat exchanger	1	14	Evaporator coil	1

Interior Components (Rear)



Item	Description	Quantity	Item	Description	Quantity
1	Filter/dryer	1	7	Electrical control box	2
2	Pressure transducer (located behind airblock)	2	8	Hot gas bypass valve	1
3	Suction line	1	9	Power supply unit #2	1
4	Filter differential pressure port	1	10	Power supply unit #1	1
5	Air filter	2	11	Service junction box (top entry shown)	1
6	Sight glass	1			

Electrical Panel



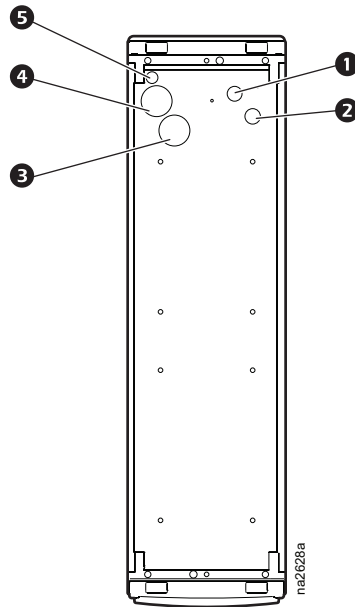
Item Description

- ❶ Leak detector port
- ❷ Remote temperature sensor port
- ❸ A-Link ports
- ❹ Reset button
- ❺ Network port

Item Description

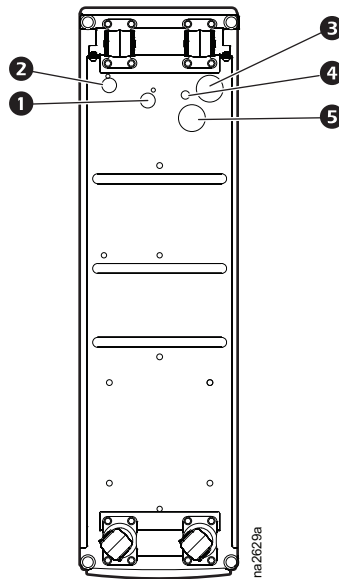
- ❻ Building management system (BMS) RS-485 port
- ❼ Unused
- ❽ Form C and shutdown input
- ❾ Configuration RS-232 port
- ❿ Outdoor heat exchanger (OHE) ports

Top Piping and Power Access Locations



Item	Description	Item	Description
1	Electrical power input	4	Liquid in
2	Low voltage wiring input	5	Condensate pump outlet
3	Liquid out		

Bottom Piping and Power Access Locations



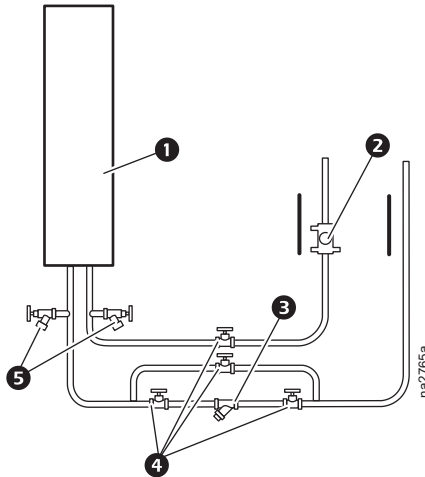
Item	Description	Item	Description
1	Electrical power input	4	Condensate pump outlet
2	Low voltage wiring input	5	Liquid out
3	Liquid in		

Piping Diagrams

NOTE: Top or bottom entry can be chosen individually for each type of connection, i.e. power, condensate drain, fluid supply and fluid return. The top piping configuration will have the same valves, fittings, and strainers as the bottom piping configuration.

Water cooled piping

NOTE: Bottom piping shown.

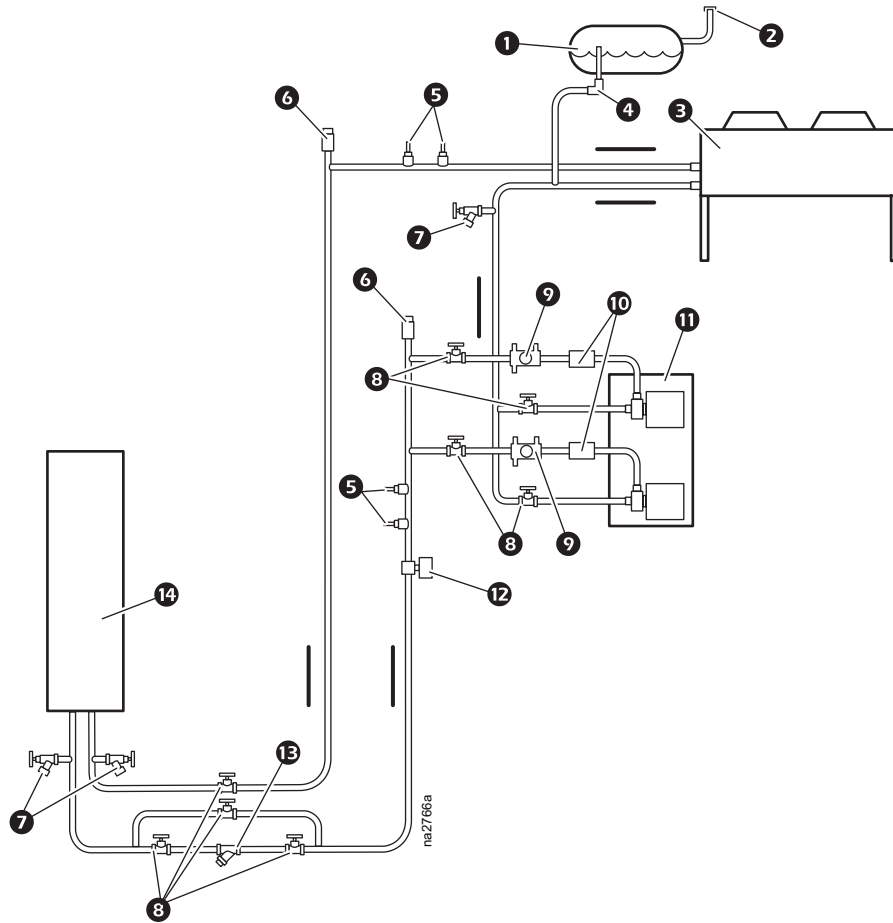


Item	Description	Item	Description
1	InRow DX	4	Gate valve*
2	Balancing valve	5	Hose bib*
3	Strainer*		

* Field supplied and installed

Glycol cooled piping

NOTE: Bottom piping shown.



Item	Description	Item	Description
1	Expansion tank*	8	Gate valves*
2	Tank fill*	9	Balancing valve *
3	Fluid-cooler	10	Check valve*
4	Airtrol fitting*	11	Pump package*
5	Temperature and pressure gauges*	12	Flow switch*
6	Air vent*	13	Strainer*
7	Hose bibs*	14	InRow DX

* Field supplied and installed

Connections Overview

All connections to and from the equipment can be made through either the top or the bottom of the equipment. Once the connectors are sweated or soldered into place, the equipment can be connected and disconnected without soldering, welding, or gluing. See the following tables for information about the sizes and types of connectors.

IMPORTANT: Make electrical connections in accordance with all local and national codes.

NOTE: FOR INSTALLATION IN CHINA ONLY - 电源外接导线长度不超过 2m 时其横截面积不得小于 2.5mm²，超过 2m 按国家和地方规定加大导线规格，其规格应不轻于 IEC227 的 53 号线。

Power connections

Model	Voltage	Frequency (Hz)	MCA	MOP	FLA	LRA (Compressor)
ACRD200	208-240	60	25	40	N/A	87.5
ACRD201	220-240	50	N/A	N/A	28	N/A

Above data is based on maximum operating conditions.

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

Piping connections

Connection	Type	ACRD200/201
Fluid input	Brazed*	7/8-in. OD (nominal) copper
Fluid return	Brazed*	7/8-in. OD (nominal) copper
Condensate drain		3/16-in. ID 5/16-in. OD

* Use the provided gaskets to prevent leakage.

Insulation

Apply provided insulation to water lines to protect personnel and to minimize condensation.

NOTE: Using either tape or glue, completely seal the insulation boots covering the unused supply and return connections.

Room Preparation

Air distribution

The equipment distributes air in a back-to-front discharge pattern, removing hot air from a hot aisle and discharging cooled air into a cold aisle.

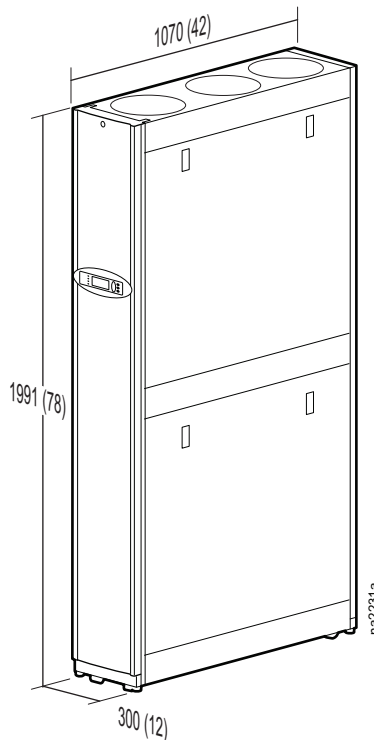
NOTE: The equipment is designed for free air discharge or for use with the Rack Air Containment System or Hot Aisle Containment System. The equipment is not intended to be connected to a duct system.

Incoming power supply requirement

⚠ ⚠ WARNING
ELECTRICAL HAZARD
<ul style="list-style-type: none">• 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.

Weights and Dimensions

Model	Packed Weight	Unpacked Weight
ACRD200, ACRD201	241 kg (532 lb)	199 kg (438.5 lb)



Dimensions are shown in mm (in.).

Installation

Removing Doors and Panels

Door removal

⚠ 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.

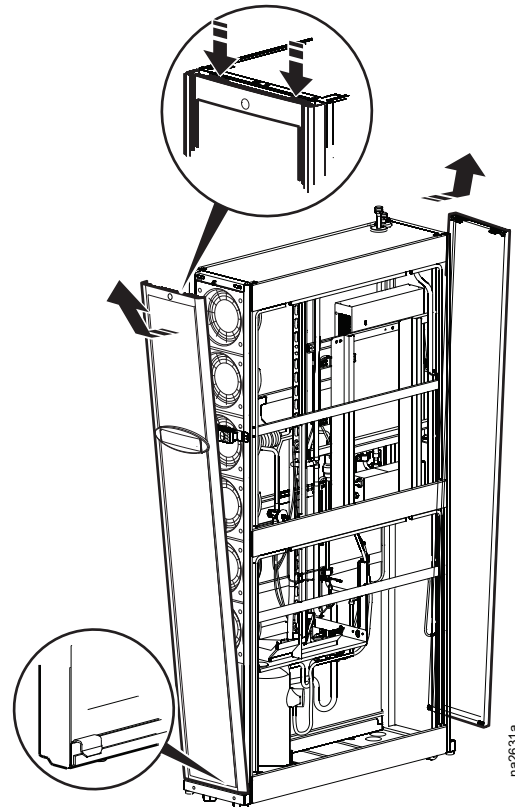
⚠ CAUTION

HAZARD TO EQUIPMENT OR PERSONNEL

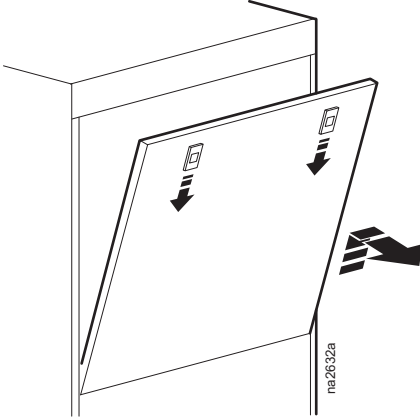
- Use caution when removing the front and rear doors while the equipment is operating.
- Unplug display interface cable.

Failure to follow these instructions can result in equipment damage.

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



Side panel removal



Positioning the Equipment

Remove the compressor shipping bracket

NOTICE

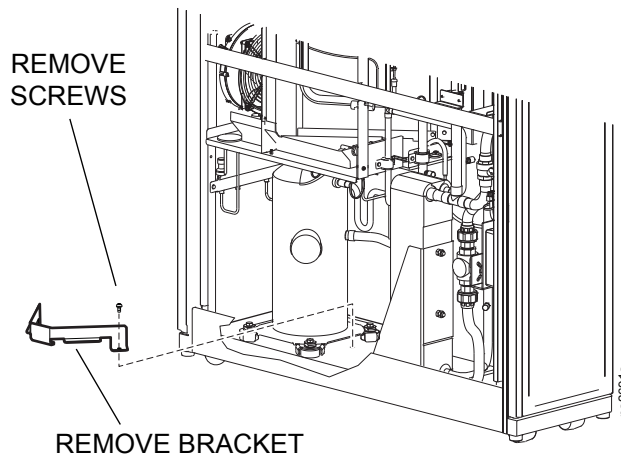
HAZARD OF EQUIPMENT DAMAGE

Failure to complete the following steps may result in equipment damage and will void your warranty.

Failure to follow these instructions can result in equipment damage.

The compressor is secured by a bracket to prevent damage during shipping. This bracket must be removed before you apply power to the equipment.

1. Remove two T30 TORX® screws from the bracket as shown. Save the screws for possible future use.
2. Remove the bracket and save for possible future use.

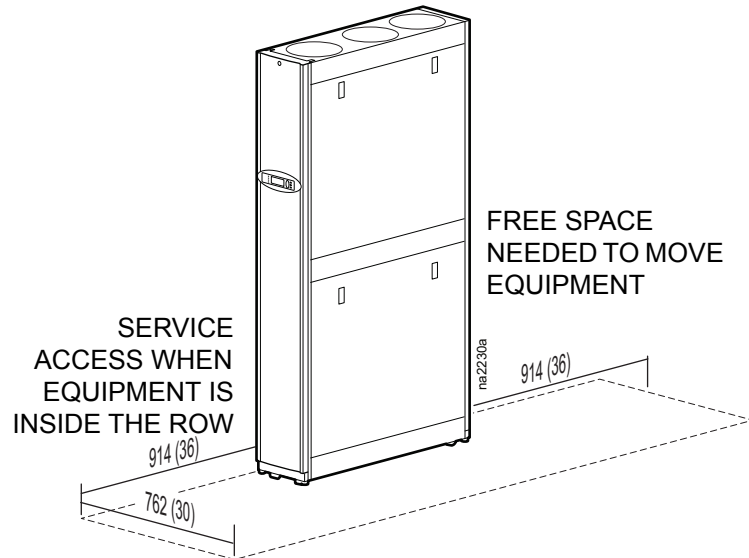


Service access

A minimum of 900 mm (36 in.) of clear floor space in front of and behind the equipment is recommended for service. All required periodic maintenance can be performed from the front or rear of the equipment.

Most of the cooling components in the equipment (e.g. dry filter, sight glass, solenoid, and expansion valves) must be brazed for repair or replacement. Do not service these components while the equipment is located inside the data center. Use the casters on the equipment to move it outside the data center for service. A minimum of 914 mm (36 in.) of clear floor space in front of or behind the equipment is recommended to roll out the equipment.

NOTE: Check local and national codes and regulations for additional service access requirements.



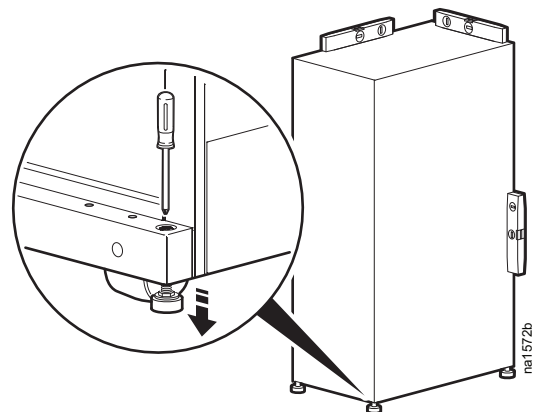
Dimensions are shown in mm (in.).

Leveling the Equipment

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. See “Door removal” on page 21.
2. For each leveling foot, insert a Phillips PH2 or slotted screwdriver into the screw above the leveling foot. Turn the screw clockwise to extend the leveling foot until it makes firm contact with the floor.
3. Re-install the front and rear doors.

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



Stabilizing the Equipment

Floor brackets

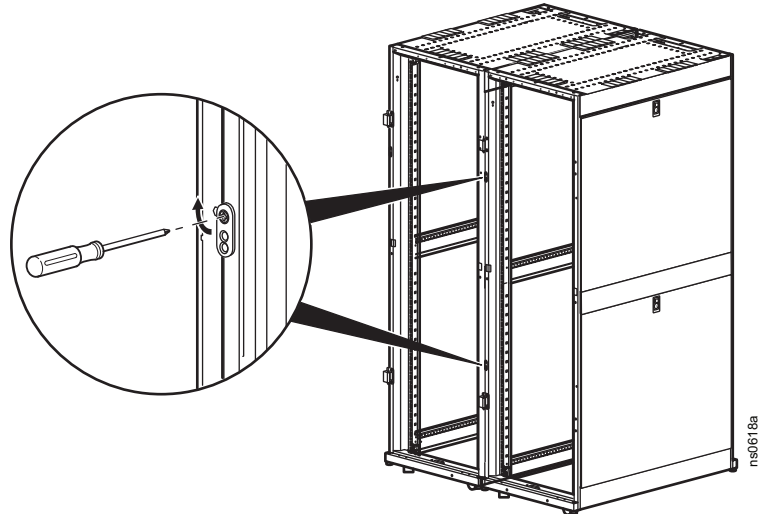
To prevent the equipment from moving from its final location (if it is not joined with an enclosure), use the included bolt-down kit (AR7701). Follow the installation instructions included with the kit.

Joining the Equipment to Enclosures

Joining to NetShelter™ SX enclosures

The equipment comes with four joining brackets (two for the front and two for the rear).

1. Remove the front and rear doors.
See “Removing the front and rear doors”.
2. Locate the four joining brackets.
Rotate each bracket ninety degrees toward the adjoining enclosure so the bracket is parallel to the floor and install using the screws provided with the enclosure.



For more information, see the *Unpacking, Installation, and Customization* manual for the NetShelter SX Enclosure.

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*.

Mechanical Connections

Liquid piping

NOTE: Install all piping in accordance with applicable industry guidelines as well as local and national codes and regulations.

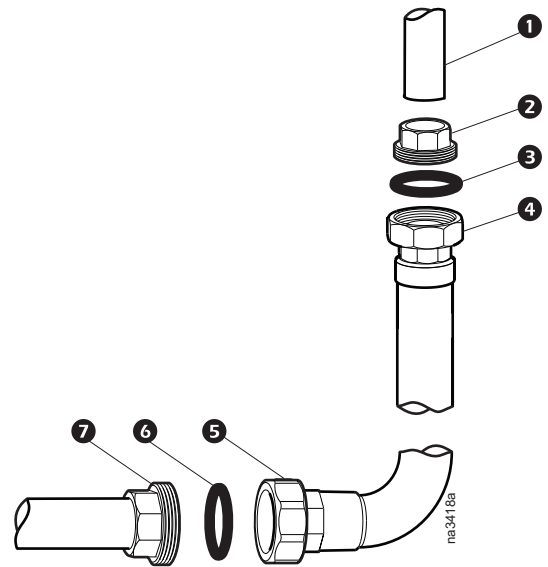
The piping kit for the liquid lines is located in the cabinet. Route the two pipes through either the top or bottom of the cabinet.

For each liquid line: Remove the fitting **2** from the end of the pipe **4**. Braze the fitting **2** to the inlet or outlet line **1**.

Use the provided gaskets (**3** and **6** in the illustration) for each connection. The other end of the pipe **5** is installed to the InRow RD piping **7**. Unions are tightened to 2.26 N-m (20 in-lb).

Insulate the liquid lines with the provided insulation.

See "Install Kit" on page 11 for more information.



Condensate pump

NOTICE

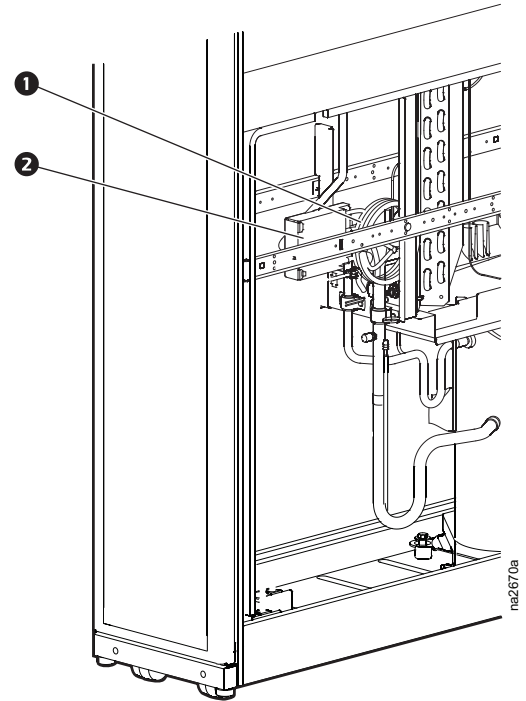
DAMAGE TO EQUIPMENT

- To prevent equipment damage from condensate, do not leave the condensate drain line coiled inside the unit. Route the condensate line out the top or bottom of the unit as shown on the next page.
- Do not exceed the lift or the run length of the drain system.

Failure to follow these instructions can result in equipment damage.

The condensate pumps ② (air cooled equipment shown) are factory-wired and piped internally to the condensate pan. The pumps are capable of moving liquid a maximum of 15.2 m (50.0 ft), which may include a maximum lift of 4.9 m (16.0 ft) as measured from floor level. For example, if your lift is 3 m (10 ft), you only have 12.2 m (40.0 ft) of usable run remaining. The pumps also use an on-board condensate high level float switch, which is wired into the alarm input for local and remote alarm capabilities.

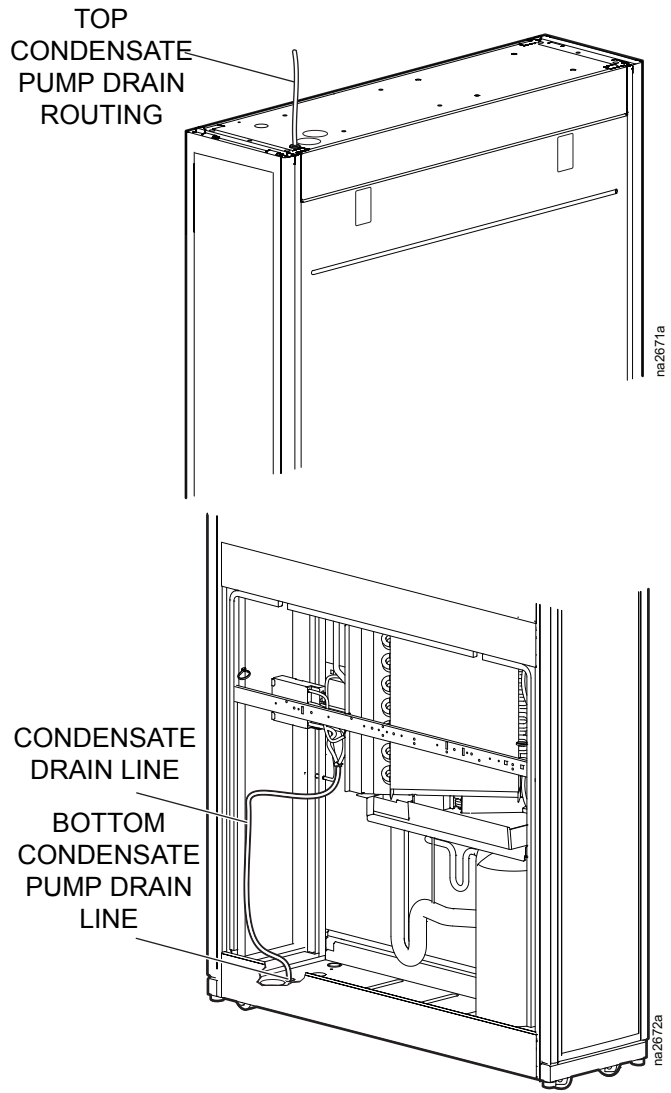
Condensate pump drain connection: Sufficient PVC drain line ① is supplied to route the drain to the outside of the equipment. Provide additional drain line at installation to allow routing to a remote drain.



Routing the condensate pump drain line: Route the condensate drain line through the top or the bottom of the equipment to an appropriate drain.

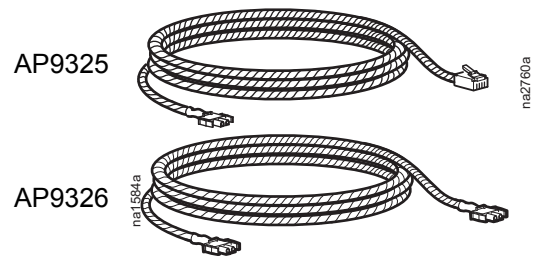
NOTICE
WATER DAMAGE
Failure to properly route condensate drain line before operation could result in water damage.
Failure to follow these instructions can result in equipment damage.

NOTE: Comply with all local codes when installing the condensate drain line to the drain system.

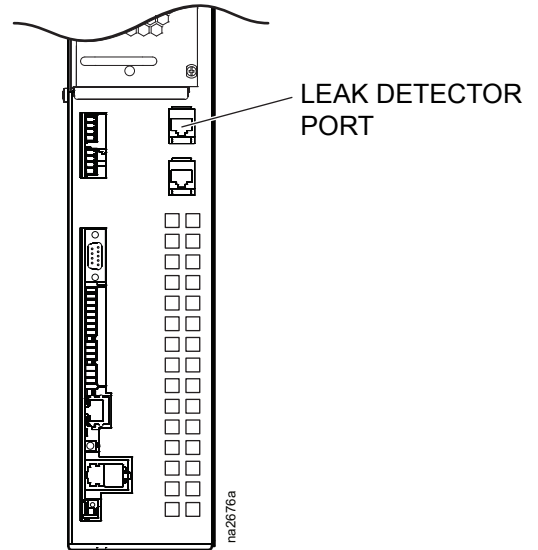


Leak sensor (optional)

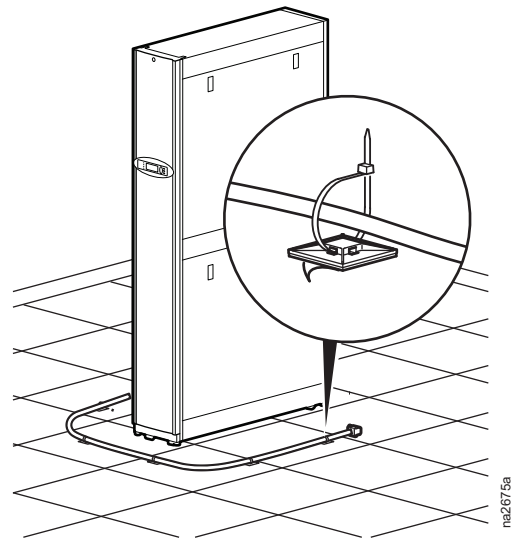
Install one leak sensor (AP9325). To extend the leak sensor length, add up to three additional leak sensors (AP9326).



1. Connect the leak sensor to the equipment using the leak detector port 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 through either the bottom plate or the door.
4. Secure the leak sensor wire to surfaces using tie wraps and tie wrap holders (provided with the leak detector).



Electrical Connections

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E or CSA Z462.
- This equipment must be installed and serviced by qualified personnel only.
- Turn off all power supplying this equipment before working on or inside the equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- 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

- Potentially dangerous and lethal voltages exist within this equipment. More than one disconnect switch may be required to energize or de-energize this equipment. Use a voltmeter to ensure that power is turned off before making any electrical connections.
- The equipment must be grounded. Check the equipment nameplate for correct ratings.
- Observe all cautions and warnings.
- Only qualified personnel may work on this equipment.

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

NOTE: FOR INSTALLATION IN CHINA ONLY - 至少需要一个不小于 3mm 触点开距的全极断开装置，以便对此设备进行通电和断电。

The following electrical connections required in the field:

- Controls (display interface, Network Management Card)
- Communication (A-Link, Building Management System)
- Power to InRow RD cooling unit (single phase plus ground)

All electrical connections must be in accordance with applicable industry guidelines as well as national and local codes and regulations.

See the equipment nameplate for voltage and current requirements.

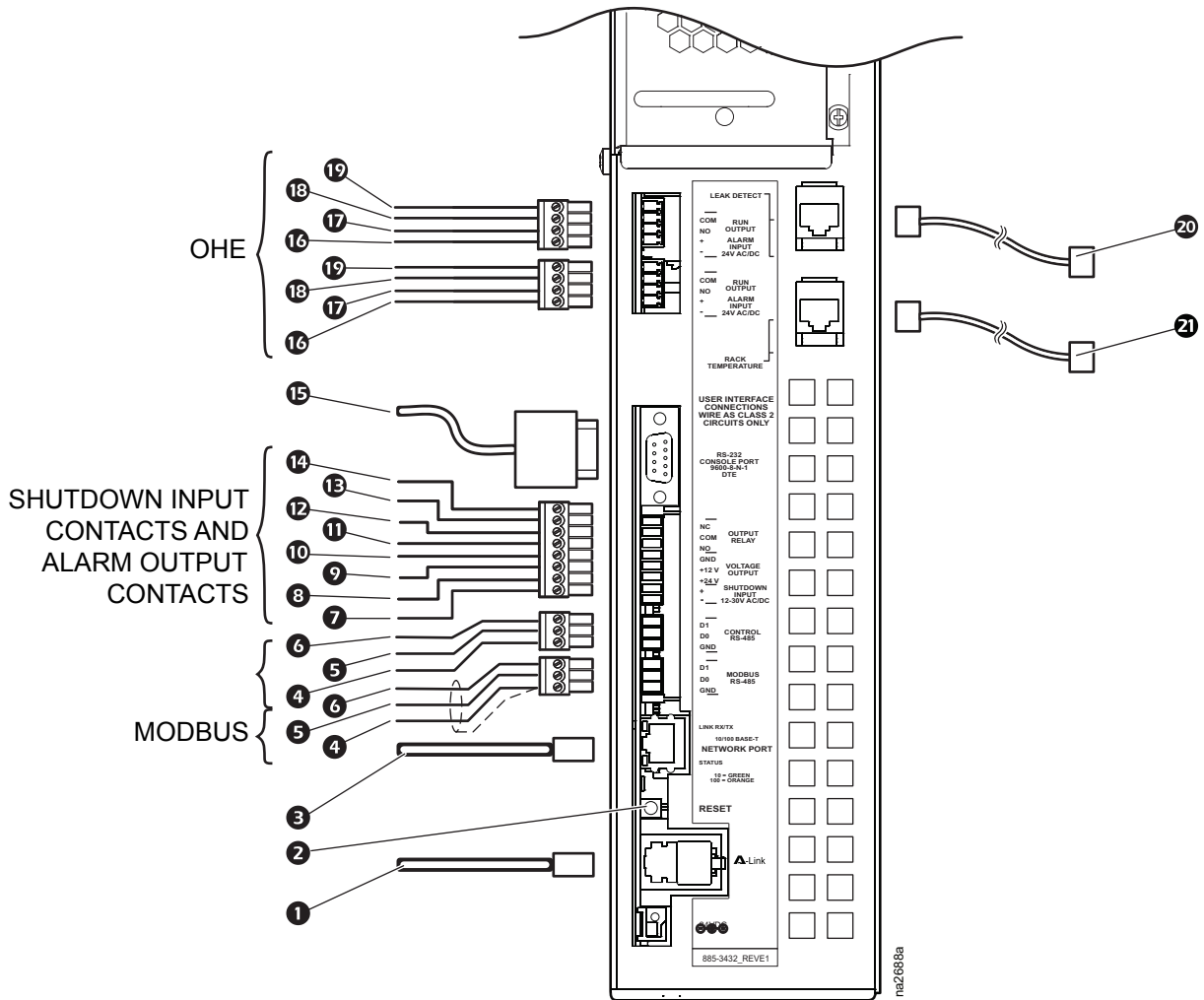
Make all low-voltage connections, including data and control connections, with properly insulated wires. Insulation of low-voltage wiring must be rated for at least the voltage of any adjacent wiring.

Control connections

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

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

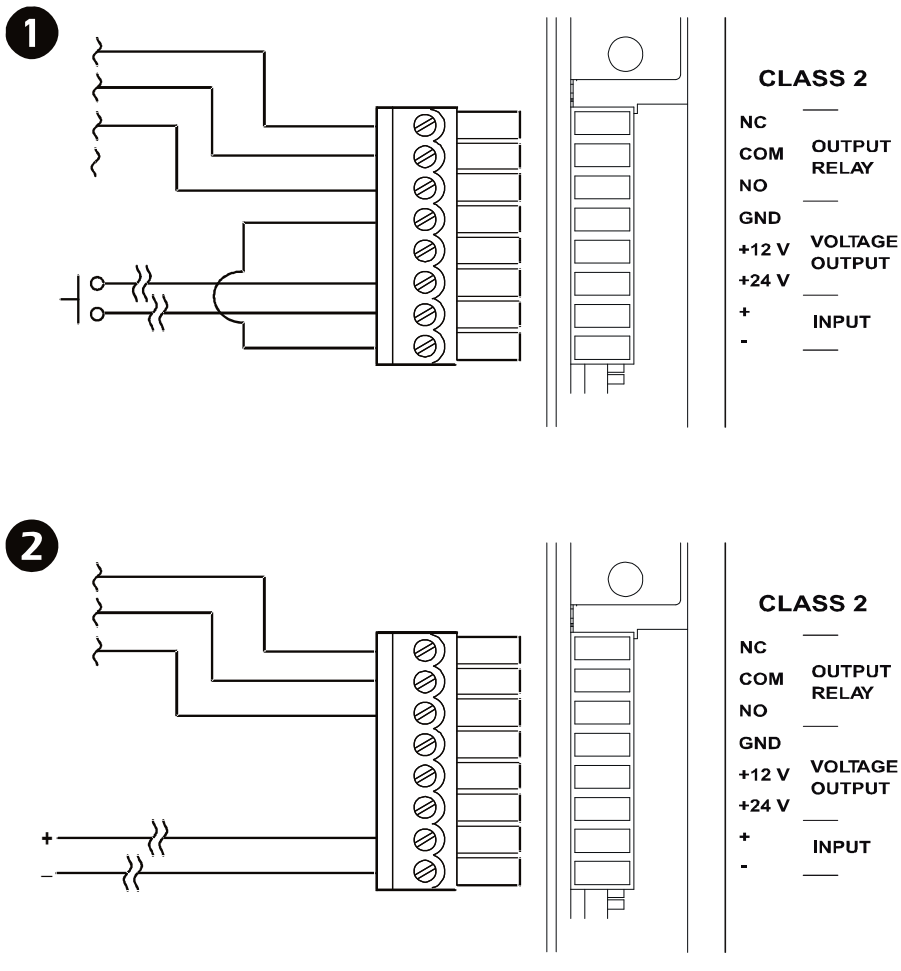
User interface connections



Item	Description
1	A-Link ports: Pin 1-High; Pin 2-Low; Pins 3, 6-Perf Power; Pins 4, 5-Ground
2	Reset button
3	Network port
4	Shield/ground
5	A- = True
6	B+ = True
7	Shutdown -
8	Shutdown +
9	24 Vdc (bias)
10	12 Vdc (bias)
11	Return (bias)

Item	Description
12	Alarm NO (normally open contact)
13	Alarm COM (common contact)
14	Alarm NC (normally closed contact)
15	RS-232 console port
16	Outdoor heat exchanger (OHE) alarm input -
17	OHE alarm input +
18	OHE COM
19	OHE NO
20	Remote temperature sensor
21	Leak detector port (AP9325)

Form C alarm contacts and shutdown input



See items 6 through 13 in “User interface connections” on page 24. A relay internal to the user interface is controlled by a user-defined alarm (for example, malfunctioning fans). Before an alarm condition, the signal on the COM (common) terminal is routed to the NC (normally closed) terminal. When the alarm is activated, the relay is energized, causing the signal on the COM terminal to be routed to the NO (normally open) terminal. The NO and NC terminals could be connected to remote indicator lights, a warning buzzer, or another device to alert an operator to the presence of an alarm condition.

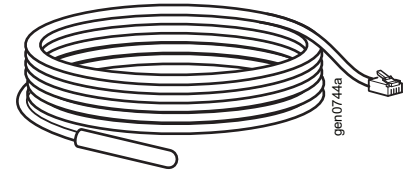
A remote disconnect switch can be connected to the shutdown inputs as shown.

NOTE: Either +12 Vdc or +24 Vdc can be used to provide power to the remote disconnect switch.

Rack temperature sensor

The rack temperature sensor monitors and controls the equipment airflow and ensures an adequate supply of cooling air to the server racks in the data center.

The equipment is supplied with an external rack temperature sensor. See “Install kit” on page 5. This sensor, along with wire clamps and wire clips, are included in the installation kit shipped with the equipment.

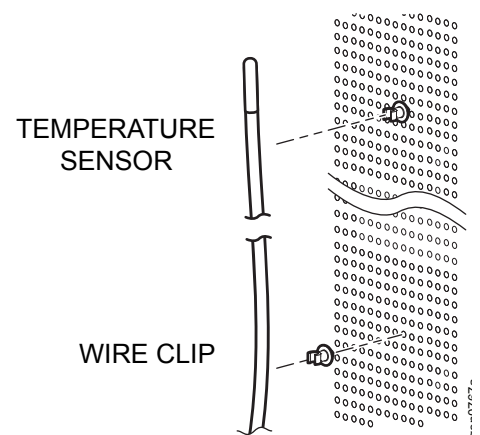


Installing the rack temperature sensor:

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. For more information about those systems, see www.schneider-electric.com. The InRow configuration requires temperature sensor installation.

1. Insert the rack temperature sensor connector in the temperature sensor port at the user interface. See “User interface connections” on page 24.
 - a. For a top installation, push the rack temperature sensor through the access hole located at the top of the equipment.
 - b. For a bottom installation, route the sensor through the access hole in the bottom of the equipment.
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. See “Install kit” on page 5.

Install the sensor where lack of sufficient cooling air is most likely. The optimum position of the rack temperature sensor will vary from installation to installation, but must be located in the airflow to allow proper readings.



Servers most likely to have insufficient or inadequately cooled air due to the recirculation of hot air from the hot aisle include:

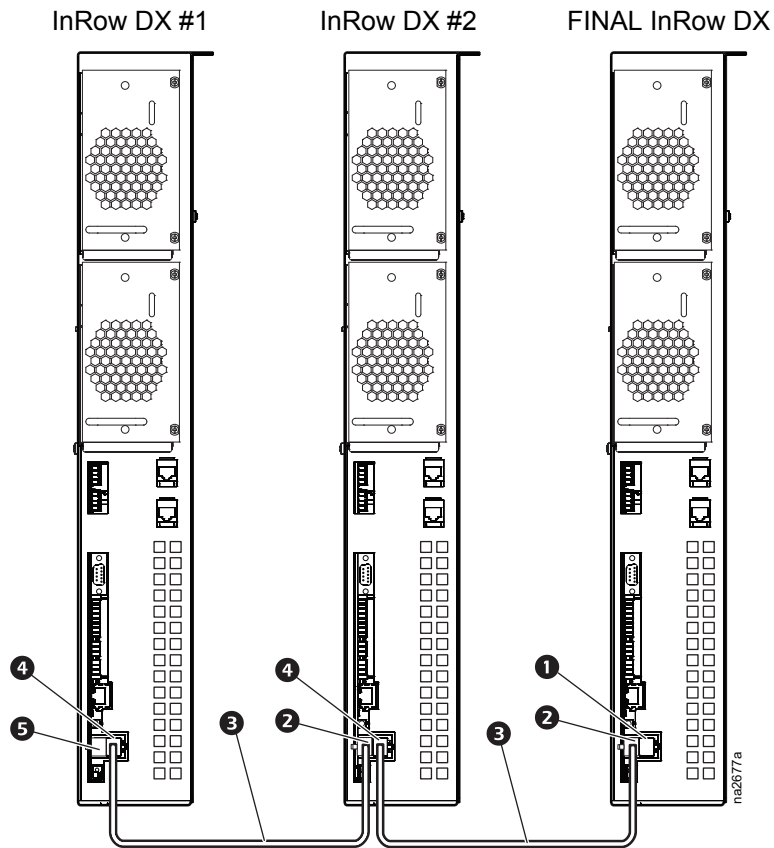
- a. Servers positioned at the top of a rack.
- b. Servers positioned at any height in the last rack at an open end of a row.
- c. Servers positioned behind flow-impairing obstacles such as building elements.
- d. Servers positioned in a bank of high-density racks.
- e. Servers positioned next to racks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

A-Link connections

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

To enable the InRow DX cooling 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 DX cooling units only.

The maximum wire length for the entire group may not exceed 1,000 m (3,280 ft).



Item	Description
1	A-Link out port (with provided RJ-45 terminator*)
2	A-Link in port
3	A-Link cable (CAT-5 ethernet cable)

Item	Description
4	A-Link out port
5	A-Link in port (with provided RJ-45 terminator*)

* RJ-45 terminators for A-Link in and out ports are identical.

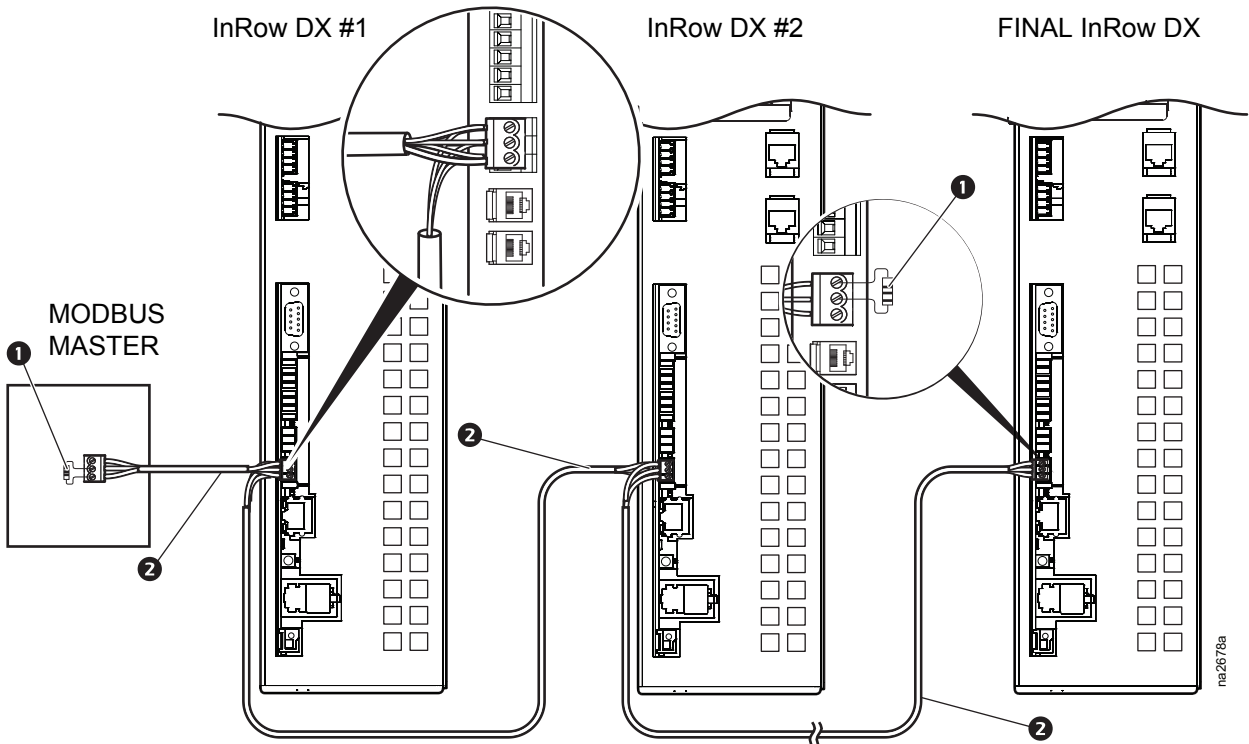
Building Management System (BMS)

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

Each InRow DX cooling unit has a three-wire Modbus terminal on the user interface. Use a connector with screw terminals to attach wiring. See “User interface connections” on page 24 for a diagram of the user interface.



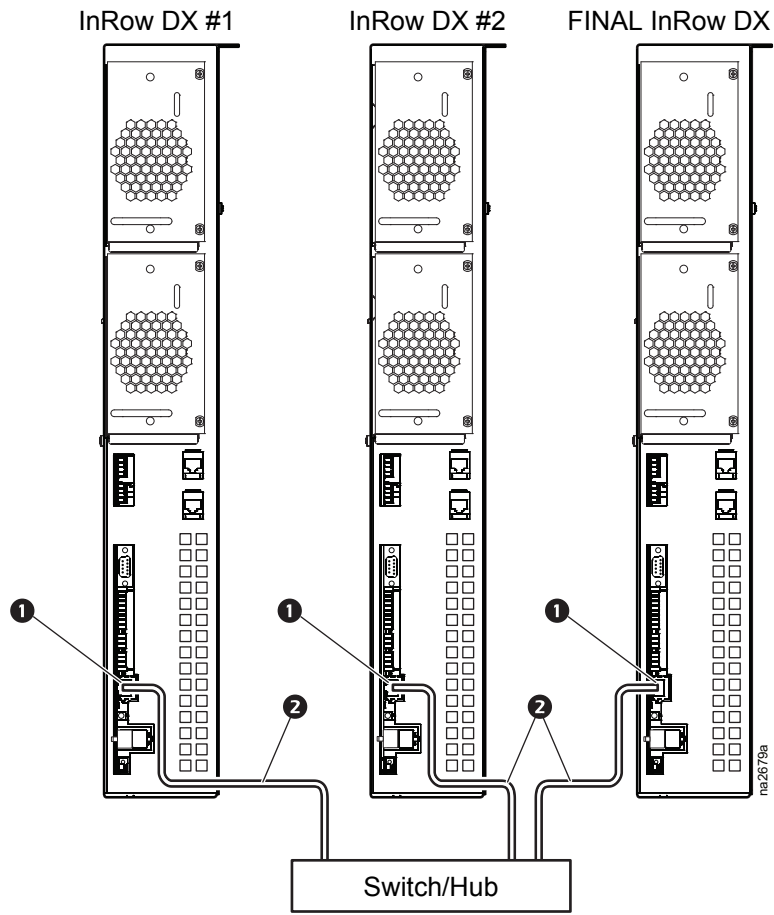
For information on setup of Modbus parameters, see the InRow DX cooling unit *Operation and Maintenance Manual*.



Item	Description
❶	Termination resistor (provided)
❷	Modbus cable (RS-485)

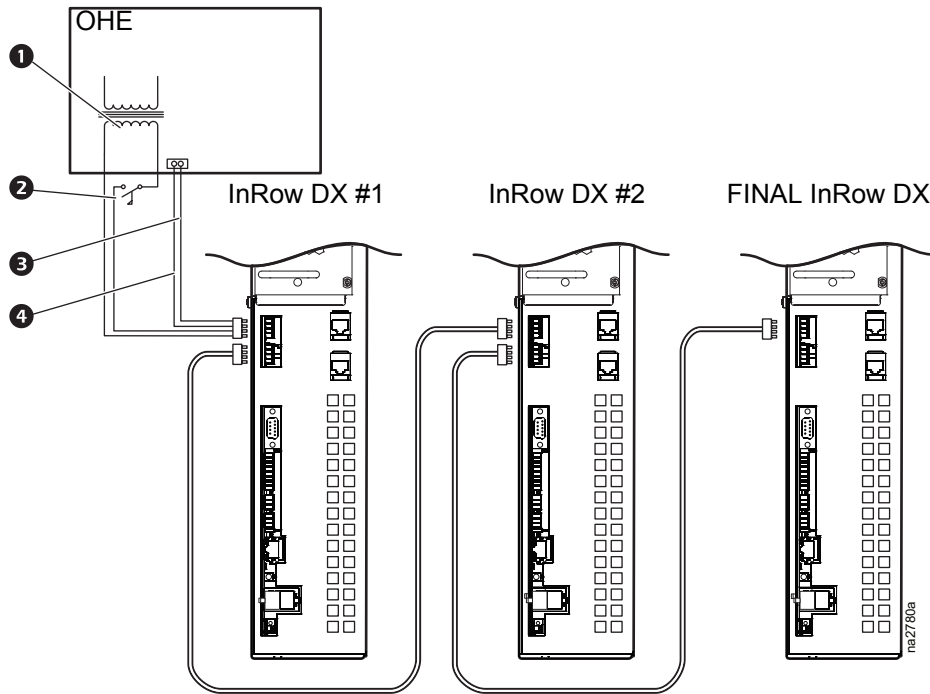
na2678a

Network port



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

OHE connections



Item	Description
①	Class 2 transformer - line voltage to 24 vac
②	Fluid flow switch
③	OHE COM
④	OHE NO

Wiring configurations

⚠ ⚠ WARNING

ELECTRICAL HAZARD

- Only qualified personnel may connect the equipment to utility power.
- Lockout/Tagout all power sources before working with electrical wiring.
- Do not wear jewelry when working near energized components.
- Observe all local and national electrical codes.

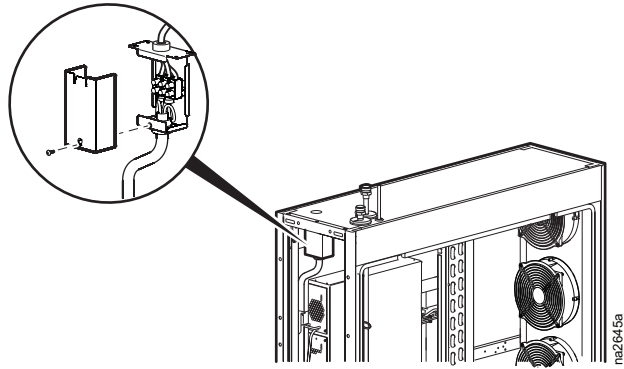
Failure to follow these instructions can result in death, serious injury, or equipment damage.

Route incoming power to the electrical junction box located at the top or bottom of the equipment.

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

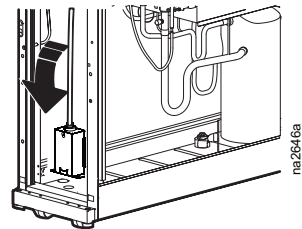
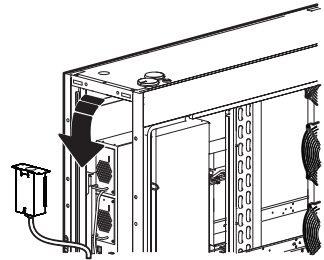
Top routing

1. Remove the electrical junction box cover.
2. Route electrical cabling into the electrical junction box as shown.
3. Secure the incoming cable with a standard 20 mm (3/4-in.) nominal conduit strain relief (not provided).
4. Connect the power wiring to the terminals as shown and torque the screws to the value shown on the label.
5. Reinstall the electrical junction box cover.



Bottom routing

1. Carefully clip all the cable clamps that secure the electrical cable to the cabinet frame. Remove the cable clamps from the cabinet and discard.
2. Remove two screws securing the electrical junction box to the underside of the cabinet top.
3. Remove the plug from the cabinet floor and insert it in the cabinet top.
4. Turn the electrical junction box over and secure it to the bottom of the cabinet using the screws removed in step 1. See “Top Piping and Power Access Locations Bottom Piping and Power Access Locations” on page 16.
5. Secure the electrical cable to the cabinet frame using new cable clamps (supplied).
6. To connect electrical power, follow the steps for top routing.



Specifications

Input voltage	ACRD200 - 208-240/1~/60 H ACRD201 - 208-240/1~/50 H
Condensate pump	5 l/h (1.3 GPH), 4.9-m (16-ft) vertical rise, 15-m (50-ft) horizontal run
Physical dimensions W x D x H - mm (in.)	300 x 1070 x 1991 (11.80 x 42.13 x 78.39)
Net weight (InRow DX only) - kg (lb)	199.09 (438.5)
Shipping weight - kg (lb)	241 (532)
Cooling capacity at 29.4°C (85°F) - kW (BTU/hour)	ACRD200: 10.90 (37,225) total ACRD201: 10.98 (37,499) total
Sound pressure - dBA - at 80% fan speed	76.6 dBA at 0.85 m ³ /s (1800 SCFM), 1.0 m in front of the unit (ref 20 µPa)
Nominal fluid flow rate entering the unit - l/s (GPM)	Water: 0.64 (10.0) Glycol: 0.64 (10.0)
Entering fluid temperature range for 0.64 l/s (10 GPM) flow rate into the unit. - °C (°F)	Water: 12.8 - 43.3 (55.0 - 110.0) Glycol: 12.8 - 43.3 (55.0 - 110.0)
Maximum heat rejection - kW(BTU/hour)	Water: 15.2 (52,000) Glycol: 15.2 (52,000)
Maximum glycol percentage - %	Water: 0 Glycol: 40
Pressure drop at 0.64 l/s (10 GPM) - kPa (psi)	Water: 33.1 (4.8) Glycol: 43.4 (6.3)

NOTE: For additional capacity and performance data, consult the InRow RD *Technical Specifications* available online at www.schneider-electric.com.

Worldwide Customer Support

Customer support for this or any other product is available at no charge in any of the following ways:

- Visit the Schneider Electric Web site to access documents in the Schneider Electric Knowledge Base and to submit customer support requests.
 - **www.schneider-electric.com** (Corporate Headquarters)
Connect to localized Schneider Electric Web sites for specific countries, each of which provides customer support information.
 - **www.schneider-electric.com/support/**
Global support searching Schneider Electric Knowledge Base and using e-support.
- Contact the Schneider Electric Customer Support Center by telephone or e-mail.
 - Local, country-specific centers: go to **www.schneider-electric.com > Support > Operations around the world** for contact information.

For information on how to obtain local customer support, contact the representative or other distributors from whom you purchased your product.

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