InRow® Direct Expansion Air Conditioners

ACRD300 and ACCU30000 Series

Technical Specifications

Up to 30 kW

990-91209A-001

Release Date: 05/2019

Legal Information

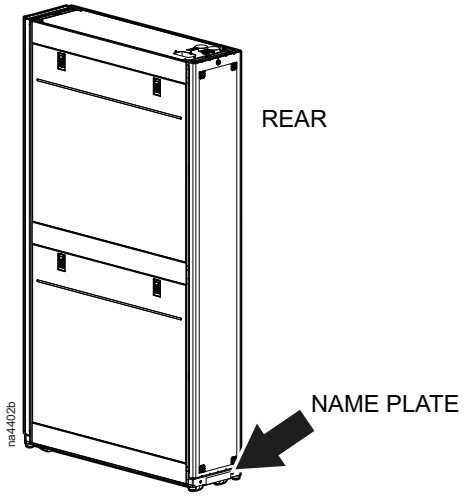
Table of Contents

Technical Data

Model Identification

Indoor Unit

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.



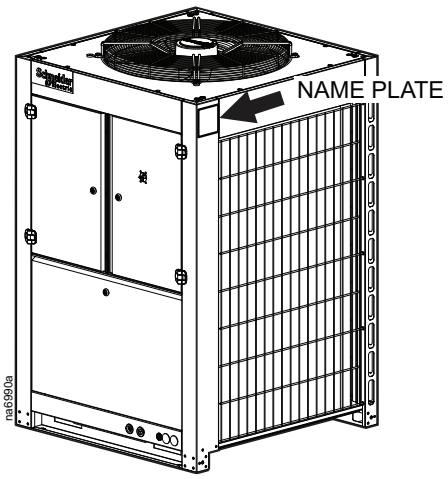
NOTE: The unit is not to be accessed by the general public.

SKU	Voltage	Frequency	65 kAIC	Power Feed	Number of Fan Power Supplies	Drainage System	Airflow Pattern
ACRD300	220 V~	50 Hz	No	Dual feed	1	Condensate pump	Rear to front
ACRD300D	220 V~	50 Hz	No	Dual feed	2	Condensate pump	Rear to front
ACRD300G	220 V~	50 Hz	No	Dual feed	1	Gravity drain	Rear to front
ACRD300GD	220 V~	50 Hz	No	Dual feed	2	Gravity drain	Rear to front
ACRD300-LT	220 V~	50 Hz	No	Dual feed	1	Condensate pump	Rear to front
ACRD300D-LT	220 V~	50 Hz	No	Dual feed	2	Condensate pump	Rear to front
ACRD300G-LT	220 V~	50 Hz	No	Dual feed	1	Gravity drain	Rear to front
ACRD300GD-LT	220 V~	50 Hz	No	Dual feed	2	Gravity drain	Rear to front
ACRD301	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Condensate pump	Rear to front
ACRD301G	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Gravity drain	Rear to front
ACRD306	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Condensate pump	Rear to front
ACRD306G	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Gravity drain	Rear to front
ACRD307	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Condensate pump	Rear to front
ACRD307G	100–120 V~* / 200–240 V~	50/60 Hz	Yes	Dual feed	1	Gravity drain	Rear to front

*Configure proper voltage before applying power to the cooling unit.

Outdoor Unit

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.



NOTE: The unit is not to be accessed by the general public.

SKU	Voltage	Frequency	65 kAIC	Power Feed	Accumulator	Outdoor Temperature Minimum Operation Temperature
ACCU30301	380 V 3~	50 Hz	No	Single feed	Yes	–25°C (–13°F)
ACCU30302	380 V 3~	50 Hz	No	Dual feed	Yes	–25°C (–13°F)
ACCU30001	200–240 V 3~	50/60 Hz	Yes	Single feed	Yes (UL)	–25°C (–13°F)
ACCU30002	200–240 V 3~	50/60 Hz	Yes	Dual feed	Yes (UL)	–25°C (–13°F)
ACCU30201	380–415 V 3~	50/60 Hz	Yes	Single feed	Yes (PED)	–25°C (–13°F)
ACCU30202	380–415 V 3~	50/60 Hz	Yes	Dual feed	Yes (PED)	–25°C (–13°F)
ACCU30101	460–480 V 3~	50/60 Hz	Yes	Single feed	Yes (UL)	–25°C (–13°F)
ACCU30102	460–480 V 3~	50/60 Hz	Yes	Dual feed	Yes (UL)	–25°C (–13°F)

Overview

The ACRD300 series of indoor units can provide a cooling capacity up to 30 kW based on a half-rack platform (300 mm (12 in.)) with an ACCU30000 series outdoor condensing unit. A variable-speed compressor works with EC fans and a fin-tube exchanger to reach the best cooling efficiency. This modular, row-based computer room cooling system offers efficient, predictable, and economical cooling for a variety of spaces.

Critical environmental requirements now reach far beyond the confines of the traditional data center or computer room to encompass a larger suite of applications, referred to as technology rooms. Critical environment applications include the following:

- Computer rooms
- Telecommunication facilities
- Clean rooms
- Power equipment
- Medical equipment rooms
- LAN/WAN environments

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Capacities

InRow® Direct Expansion (DX) units in the ACRD300 series are available as a 300-mm unit with nominal capacities up to 30 kW.

Room Air Distribution

Row-based systems are placed in line with rack enclosures. At least one system is used per hot aisle. Air is drawn in through the rear of the system, cooled, and discharged into the cold aisle, thereby neutralizing the sensible heating effects of the data processing equipment. InRow DX products deliver high volumes of airflow to eliminate hot spots in densely populated environments.

Configuration:

- Air-cooled

Compliance Approval

Indoor Unit

Agency	ACRD300	ACRD300D	ACRD300G	ACRD300GD	ACRD301	ACRD301G
UL and cUL					X	X
RCM						
CE					X	X
EAC						
CCC	X	X	X	X		
CMIM					X	X

Agency	ACRD300-LT	ACRD300D-LT	ACRD300G-LT	ACRD300GD-LT
UL and cUL				
RCM				
CE				
EAC				
CCC	X	X	X	X
CMIM				

Agency	ACRD306	ACRD306G	ACRD307	ACRD307G
UL and cUL			X	X
RCM				
CE	X	X		
EAC				
CCC				
CMIM				

Outdoor Unit

Agency	ACCU30301	ACCU30302	ACCU30001	ACCU30002
UL and cUL			X	X
RCM				
CE				
EAC				
CCC	X	X		
CMIM				

Agency	ACCU30201	ACCU30202	ACCU30101	ACCU30102
UL and cUL			X	X
RCM				
CE	X	X		
EAC				
CCC				
CMIM	X	X		

Working Conditions and Environmental Limits

InRow DX units have a minimum heat load to ensure proper operation. Failure to operate the unit with at least the minimum load will result in one or more of the following conditions:

- Unstable unit operation
- Decreased operating efficiency
- Equipment on/off cycling
- Inadequate dehumidification
- Increased wear and tear caused by frequent on/off cycles
- Decreased group control effectiveness
- Potential increase in cost of ownership

Limit Working Conditions—Indoor Units (ACRD300, ACRD300D, ACRD300G, ACRD300GD, ACRD301, ACRD301G)	
Refrigerant type	R410A
Voltage input tolerance	±10%
Minimum recommended load	9.5 kW (32,400 BTU/hr)
Outdoor ambient temperature	Down to –15°C (+5°F) Up to 48°C (118°F)
Ambient %RH	5 to 80%RH
Altitude	3000 m (9843 ft)
Storage Conditions	
Temperature	–25°C to +65°C (–13°F to +149°F)
Humidity	5 to 95%RH
Limit Working Conditions—Indoor Units (ACRD300-LT, ACRD300D-LT, ACRD300G-LT, ACRD300GD-LT, ACRD306, ACRD306G, ACRD307, ACRD307G)	
Refrigerant type	R410A
Voltage input tolerance	±10%
Minimum recommended load	9.5 kW (32,400 BTU/hr)
Outdoor ambient temperature	Down to –25°C (–13°F) Up to 48°C (118°F)
Ambient %RH	5 to 80%RH
Altitude	3000 m (9843 ft)
Storage Conditions	
Temperature	–25°C to +65°C (–13°F to +149°F)
Humidity	5 to 95%RH

NOTE: ACRD301, ACRD301G, ACRD306, ACRD306G, ACRD307, and ACRD307G are in accordance with the Electromagnetic Compatibility Standard (EMC): EN 55032, EN55024, EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-1, EN61000-3-11, EN 61000-3-12.
ACRD301, ACRD301G, ACRD306, ACRD306G, ACRD307, and ACRD307G are in accordance with FCC: ANSI C63.4.

NOTE: The SKUs comply with EN61000-3-12 provided that the short-circuit power SSC is greater than or equal to 350 at the interface point between the user supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power SSC greater than or equal to 350.

Limit Working Conditions—Outdoor Units	
Refrigerant type	R410A
Compressor oil type	PVE (Daphne Hermetic Oil FVC32D)
Operating outdoor temperature	–25°C to +48°C (-13°F to +118°F)
Altitude	3000 m (9843 ft)
Storage Conditions	
Temperature	–25°C to +65°C (–13°F to +149°F)
Humidity	5 to 95%RH

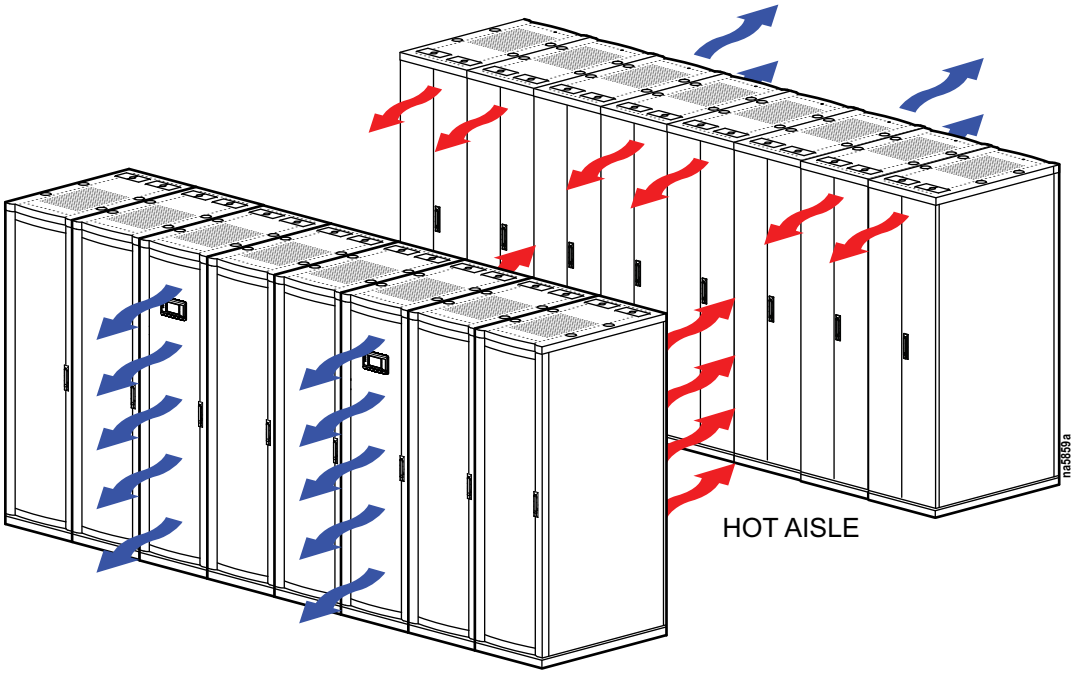
NOTE: ACCU30201 and ACCU30202 are in accordance with the Electromagnetic Compatibility Standard (EMC): EN 55032, EN55024, EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-1, EN61000-3-11, EN 61000-3-12.
ACCU30001, ACCU30002, ACCU30101, and ACCU30102 are in accordance with FCC: ANSI C63.4.

NOTE: The SKUs comply with EN61000-3-12 provided that the short-circuit power SSC is greater than or equal to 350 at the interface point between the user supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power SSC greater than or equal to 350.

Scalable Solution for Critical Environments

InRow Advantages

The row-based solution improves energy efficiency and cooling ability in a number of ways. First, the InRow DX unit draws air directly from the hot aisle, allowing the InRow DX unit to take advantage of higher heat transfer efficiency due to higher temperature differences. It can then discharge room-temperature air directly in front of the servers it is cooling. Placing the unit in the row enables the unit to operate at higher return and supply air temperatures, yielding 100% sensible capacity. This significantly reduces the need for humidification.



Scalable for High Density

The predictable performance of the row-based architecture makes it well-suited for high density applications. The focus on heat removal instead of cold-air delivery is the key to making this approach scalable. The modular design of the InRow DX unit allows it to be easily added in the row as the demand for cooling increases.

The additional benefit of the row-based architecture is the ability to add hot-aisle containment. Containing the hot aisle further reduces any chance of hot and cold air streams mixing. This provides ultimate predictability and allows the cooling capacity to be matched to the IT heat load.

Standard Features and Options

Standard Features

EcoStruxure™ Ready

The ACRD300 Series is ready to connect to the world-leading DCIM platform.

Cabinet

The frame of the ACRD300 series units is constructed of 16-gauge formed steel for maximum strength. The cabinet is serviceable from the front and rear. All exterior panels and corner posts on the frame are powder coated for durability and an attractive finish. The front and rear exterior panels are constructed of 18 gauge perforated steel with 80% open free area. All panels, which include a key latch for safety and security, allow easy access and removal. The footprint of 300 mm takes up less space in the data center.

Air Flow

ACRD300 Series units can provide 5440 m^3/h (3200 CFM) of rated air flow.

Condensate Pump

- **ACRD301, ACRD300, ACRD300D, ACRD301-LT, ACRD300D-LT, ACRD306, and ACRD307:** A condensate pump is factory wired and piped internally to the condensate drain pan. Within the condensate pump, there is a dual position float. The first position is used for condensate pump control and the other float generates a condensate pump failure alarm to prevent condensate pan overflow.

Counterflow Cooling Coil/Condensate Pan

Designed for high-sensible heat ratios, the coil is constructed with copper tubes, raised-lance-type aluminum fins, and 18-gauge galvanized steel end plates. Coil headers are equipped with anti-drip shields in the event of condensation. The condensate pan is thermal formed non-ferrous material, and is sloped for positive drainage to provide higher indoor air quality.

Filters

Filtration of conditioned air is extremely vital to maintaining the clean, particle-free environment required by electrical equipment. Filters are easily replaceable from the rear of the unit. ACRD300 series units use greater-than 20% efficiency ASHRAE 52.1, 12.7 mm (1/2 in.) washable filters that meet HF-1 standards for electronics (MERV 1 per ASHRAE 52.2)

Network Management Card

The Network Management Card (NMC) allows communication with the local area network (LAN). In addition, the NMC permits multi-level access to monitoring, control, and event notification features over the building network.

Remote Temperature Sensors

To control the cooling unit based on rack inlet temperature, remote temperature sensors are provided. The ACRD300 series units come equipped with one temperature sensor. These sensors measure temperature at a point 4 m (13 ft) from the connection inside the InRow DX unit. These sensors are used for remote placement in the field on an adjacent IT rack.

Shutdown Input/Alarm Output

The unit provides one field connection input for remote shutdown and one field connection alarm output.

Power

- 3.2 rated SCOP (EER)
  - Substantially lower power consumption
- Power by UPS
  - Due to low current draw, connect the indoor unit secondary power feed to the UPS for easy power backup.

Selectable Top or Bottom Piping Connections

The cooling unit includes both top and bottom piping connections. All ACRD300 series connections use threaded ring seals for ease of installation and service.

Variable-Speed Fans

Each unit is equipped with variable speed fans to allow for varying heat loads. In order to provide uniform airflow over the cooling coil, the fans provide a draw-through air pattern. ACRD300 series units are equipped with eight direct-drive fan modules. These fans are easily replaceable while the unit is in operation.

R410A Refrigerant

R410A refrigerant does not harm the ozone layer and has a very low contribution to the global warming impact.

Outdoor Condensing Unit

The outdoor condensing unit has a small footprint of 1 m^2 (10.8 ft^2). Moving the compressor to the outdoor condensing unit improves serviceability for the indoor unit and lowers the sound level in the IT space.

Electronic Expansion Valve

The EEV provides accurate control of the refrigerant superheat in order to ensure an increase in efficiency at low external temperatures because it enables the unit to operate at much lower condensing pressures than would be possible with a traditional mechanical valve.

Display Interface

The standard arrangement of the touch-screen display, RS 485 serial card, and USB connection allows direct connection to BMSs based on serial lines. The USB port allows quick downloads of the unit settings and parameters.

Microprocessor

The control system consists of two sections: the J5 controller containing the regulation software and is installed in the unit electrical panel, and the 4.3-inch, touch-screen display interface on the exterior of the unit.

The control system uses sophisticated algorithms to control the outlet water temperature within a minimal range and to monitor and protect the various unit components. The display interface provides clear information on the unit status and any current alarms.

Optional Features

Aisle Containment

This containment solution isolates pods (two rows of InRow cooling units sharing a common aisle) from the whole IT environment, increasing cooling efficiency at any density.

Cable Water Detector

A leak detection cable is placed on the floor or sub-floor around all possible leak sources. If water or other conductive liquids contact the cable anywhere along its length, the microprocessor controller announces the leak visually, audibly, and across the network. The 6.1-m (20-ft) cable may be cascaded to make custom lengths up to 24.4 m (80 ft).

Humidity Monitoring

An optional remote sensor is available to monitor the humidity level of the data center.

Dual Power Circuits

Optional integrated redundant power circuits provide full power redundancy.

Compressor Acoustic Hood

An optional compressor acoustic hood reduces the sound level.

Data Partition

Overhead cable distribution between adjacent NetShelter racks allows for removal of the InRow DX units without disrupting overhead cabling.

Filters

Electrical equipment requires clean, particle-free air, thus making air filtration extremely important. As an optional feature, higher efficiency filters can be purchased for the InRow DX units. The ACRD300 series units optionally use an 50.8 mm (2 in.) pleated, deep loading, 30% ASHRAE 52.1 filter (MERV 8 per ASHRAE 52.2).

Height Adapters

To match height of the InRow DX cooling units to various rack heights, height adapters are available for NetShelter 42-U VX and 48-U SX racks.

Network Cable

Various lengths of network cable are available to ship with your cooling system. The network cable is used to interconnect multiple units in a redundant group, as well as to connect the Network Management Card to your LAN.

Power Trough

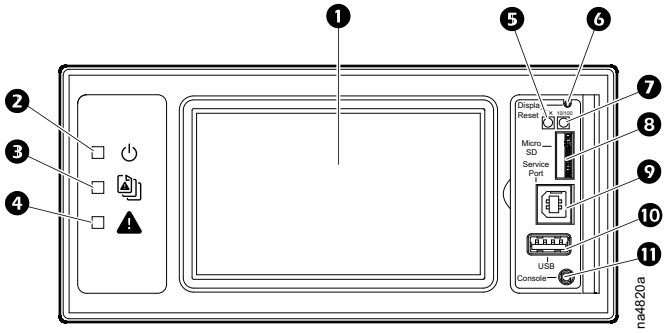
Overhead power distribution between adjacent NetShelter racks allows for removal of the InRow DX cooling units without disrupting overhead power cabling.

Rack Air Containment

This containment solution isolates the airflow of InRow cooling units from the whole IT environment, increasing efficiency while allowing for high density deployment.

Microprocessor Controller

Display Interface



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

Microprocessor Controller

The microprocessor controller is standard on each system. The easy-to-use touch-screen display allows the operator to select options from the menu-driven interface to control and monitor the connected air conditioning system.

Open Architecture

The InRow Direct Expansion protocol is open for integration with all building management systems. Communication interface on the system can be MODBUS RS485 or Ethernet.

Control Type

The controller uses proportional/integral/derivative (PID), a time-proven precision environmental control method. This allows for custom tuning of control variables to achieve desired system response.

Functions

- Supply and return air conditions
- Operational mode control
- Event logging
- Alarms
- Redundant group control
- Fan speed adjustment
- Input/Output module programming

Control

The touch-screen LCD display interface is protected by a configurable password and provides access to information and settings for the unit.

- Supply Temperature Setpoint: 15.0–30.2°C (59.0–86.4°F)
- Cool Setpoint: 18.0–32.2°C (64.4–90.0°F)
- Rack Inlet High Temperature Threshold: 10.0–65.6°C (50.0–150.1°F)
- Supply Air High Temperature Threshold: 10.0–65.6°C (50.0–150.1°F)
- Return Air High Temperature Threshold: 10.0–65.6°C (50.0–150.1°F)

Alarms

The microprocessor controller shall activate a visible and audible alarm in the following occurrences:

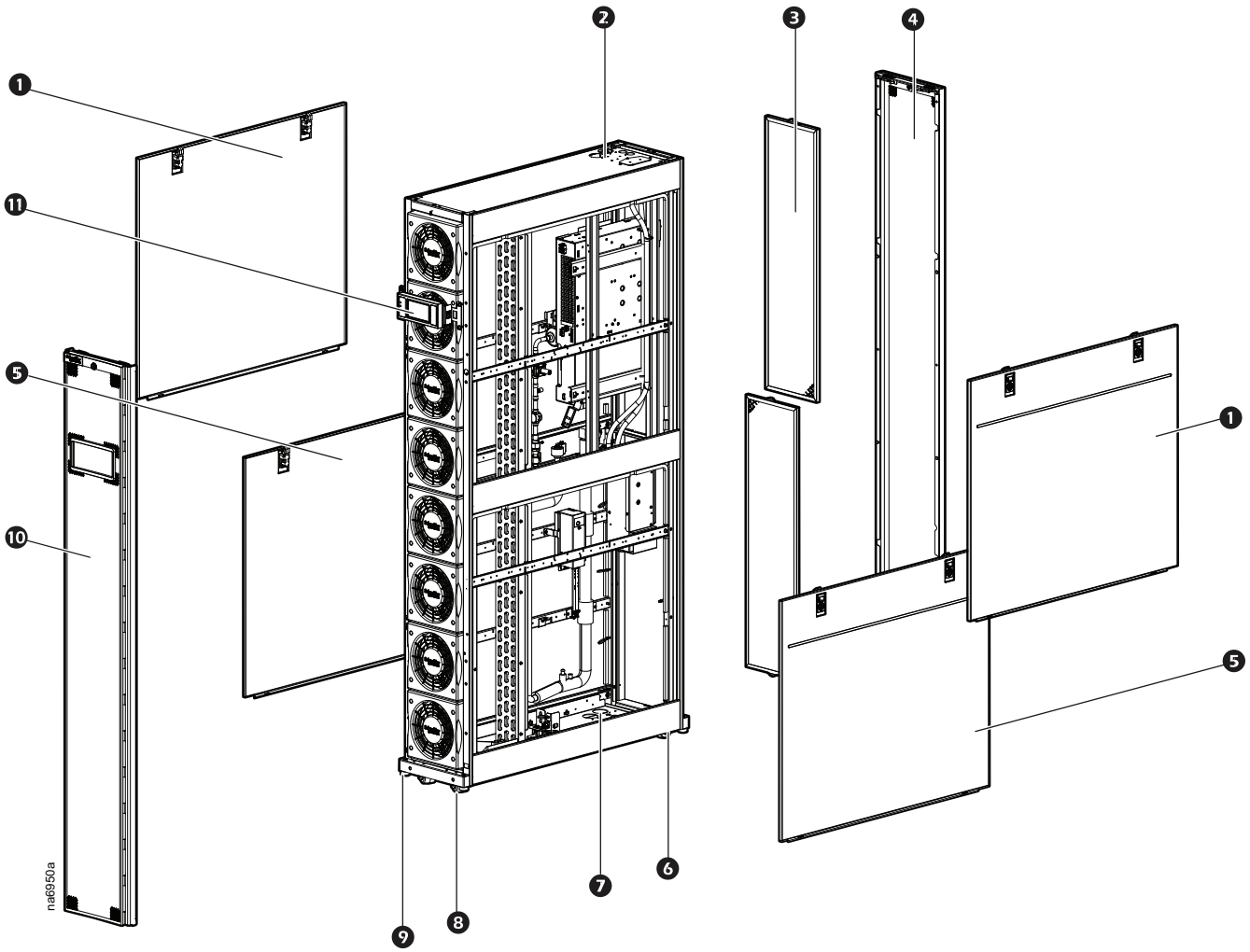
- Cool fail
- Air filter clogged
- Return air sensor fault
- Supply air sensor fault
- Rack temperature sensor fault
- High discharge pressure
- Low suction pressure
- Fan fault
- Water detected (if optional leak detector used)
- Check condensate management system
- Air filter run hours violation
- Group communication fault
- Supply air high temperature violation
- Return air high temperature violation
- Filter DP sensor failure
- Suction pressure sensor failure
- Discharge pressure sensor failure
- Persistent high discharge pressure fault
- Rack inlet temperature high violation
- External communication fault
- Internal communication fault
- On standby input contact fault
- A-link isolation relay fault
- Condensate pan full
- Upper fan power supply fault

- Lower fan power supply fault
- Suction temperature sensor failure
- Persistent low suction pressure fault
- Factory configuration not completed
- Liquid refrigerant sensor failure
- Compressor drive communication fault
- Compressor drive fault
- Compressor run hours violation
- Condensate pump run hours violation
- Fan run hours violation
- Idle mode active
- High pressure switch active
- Compressor high pressure
- Supply humidity sensor fault
- High suction pressure
- Excessive compressor cycling
- VFD inverter overheat
- Compressor drive locked

Component Identification

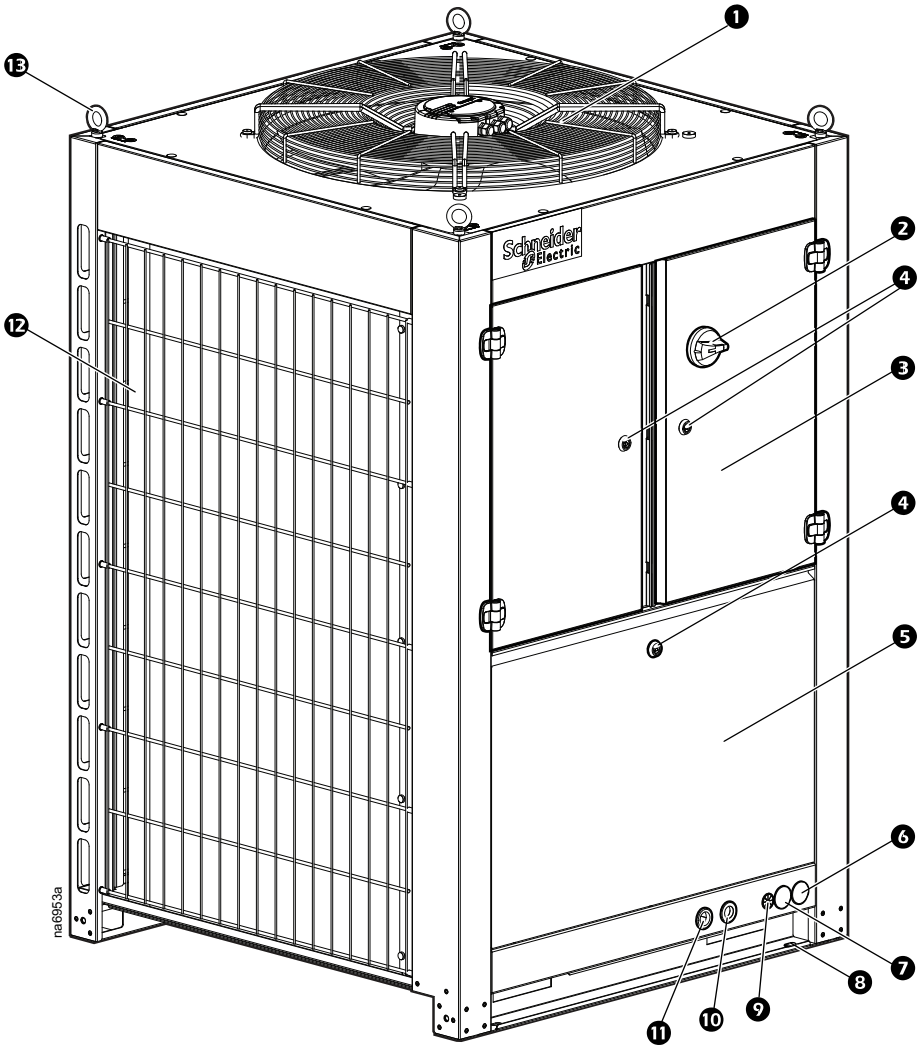
External Components

Indoor Unit—All ACRD30X Units



Item	Description
1	Upper side panel
2	Upper piping connection openings
3	Filters
4	Rear panel
5	Lower side panel
6	Rear casters (non-swiveling)
7	Lower piping connection openings
8	Front casters (swiveling)
9	Leveling feet
10	Front panel
11	Display interface

Outdoor Unit—All ACCU30XXX Units



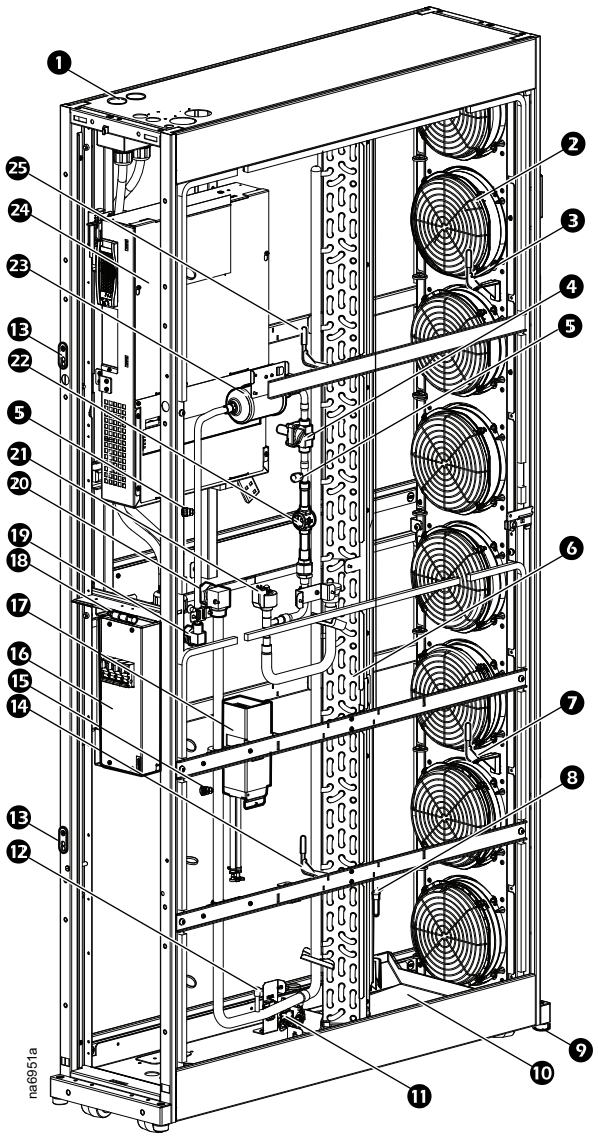
NOTE: Model ACCU30301 is shown.

Item	Description	Item	Description
❶	Fan	❽	Mounting holes
❷	Main disconnect switch handle (field installed)	❾	Signal cable inlet
❸	Electrical panel access doors	❿	Liquid line inlet
❹	Quarter-turn latches	⓫	Suction line inlet
❺	Service panel	⓬	Coil grilles
❻	Power feed A inlet	⓭	Lifting eyebolts (field supplied)
❼	Power feed B inlet		

Internal Components

Indoor Unit

ACRD300, ACRD300D, ACRD300G, ACRD300GD, ACRD301, ACRD301G

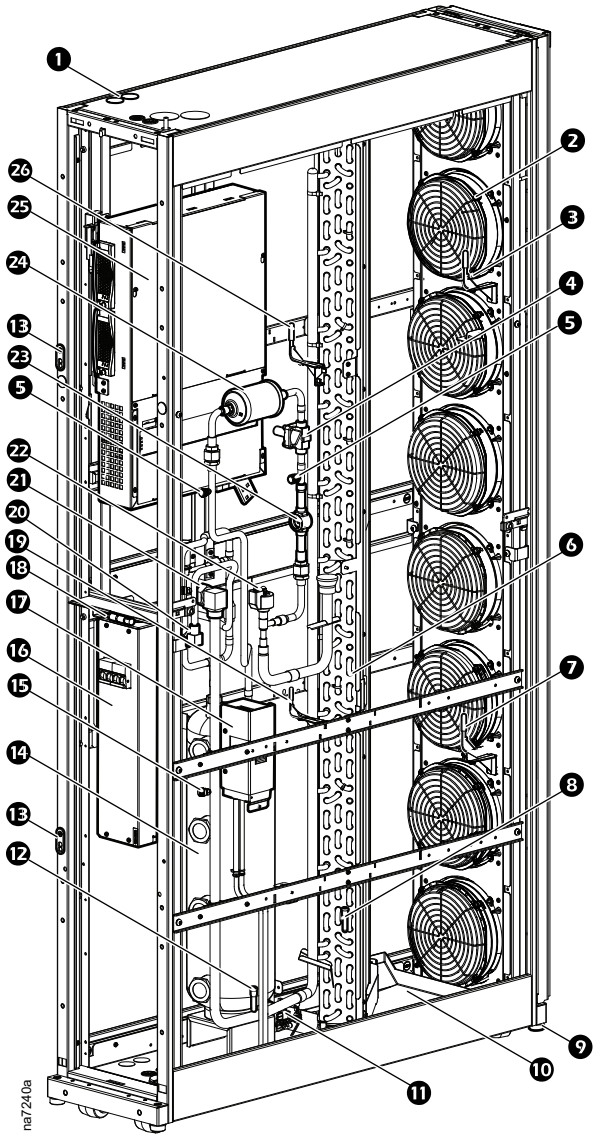


NOTE: Some components not shown for easier viewing.

Item	Description
1	Power supply connections (top)
2	Fans
3	Upper supply air temperature sensor
4	Solenoid valve
5	Liquid line service port
6	Cooling coil
7	Lower supply air temperature
8	Refrigerant temperature sensor
9	Leveling feet
10	Condensate drain pan
11	Drain pan float switch
12	Temperature sensor (suction)
13	Joining bracket

Item	Description
14	Lower return air temperature sensor
15	Gas line service port
16	Automatic transfer switch (ATS)
17	Condensate drain pump (ACRD300, ACRD300D, and ACRD301 only)
18	Temperature and humidity sensor (optional)
19	Inlet connection
20	Outlet connection
21	Electronic expansion valve (EEV)
22	Sight glass
23	Filter drier
24	Electrical box
25	Upper return air temperature sensor

ACRD300-LT, ACRD300D-LT, ACRD300G-LT, ACRD300GD-LT, ACRD306, ACRD306G, ACRD307, ACRD307G



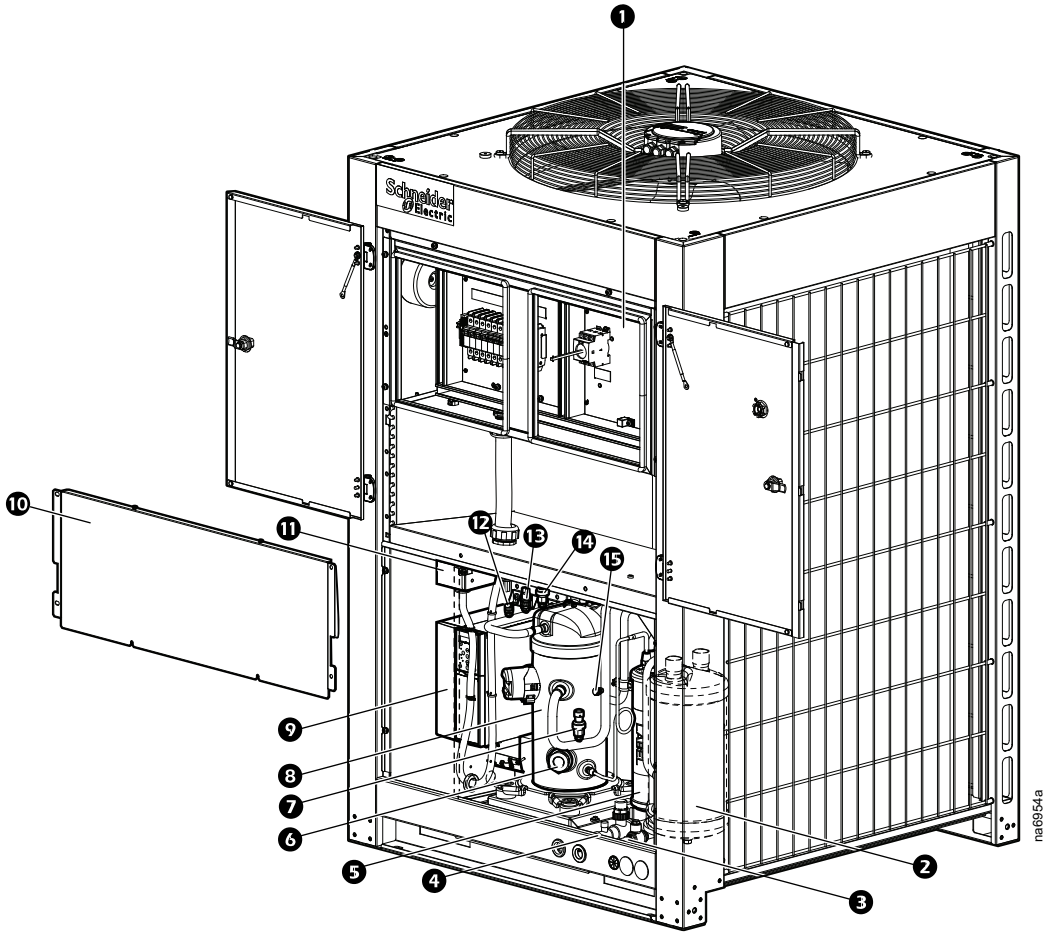
NOTE: Some components not shown for easier viewing.

Item	Description	Item	Description
1	Power supply connections (top)	14	Liquid receiver*
2	Fans	15	Gas line service port
3	Upper supply air temperature sensor	16	Automatic transfer switch (ATS)
4	Solenoid valve	17	Condensate drain pump (ACRD300-LT, ACRD300D-LT, ACRD306, and ACRD307 only)
5	Liquid line service port	18	Temperature and humidity sensor (optional)
6	Cooling coil	19	Lower return air temperature sensor
7	Lower supply air temperature	20	Inlet connection
8	Refrigerant temperature sensor	21	Outlet connection
9	Leveling feet	22	Electronic expansion valve (EEV)
10	Condensate drain pan	23	Sight glass
11	Drain pan float switch	24	Filter drier
12	Temperature sensor (suction)	25	Electrical box
13	Joining bracket	26	Upper return air temperature sensor

*The liquid receiver in ACRD306 and ACRD306G units is equipped with a safety valve; the liquid receiver in all other units is equipped with a fusible plug.

Outdoor Unit

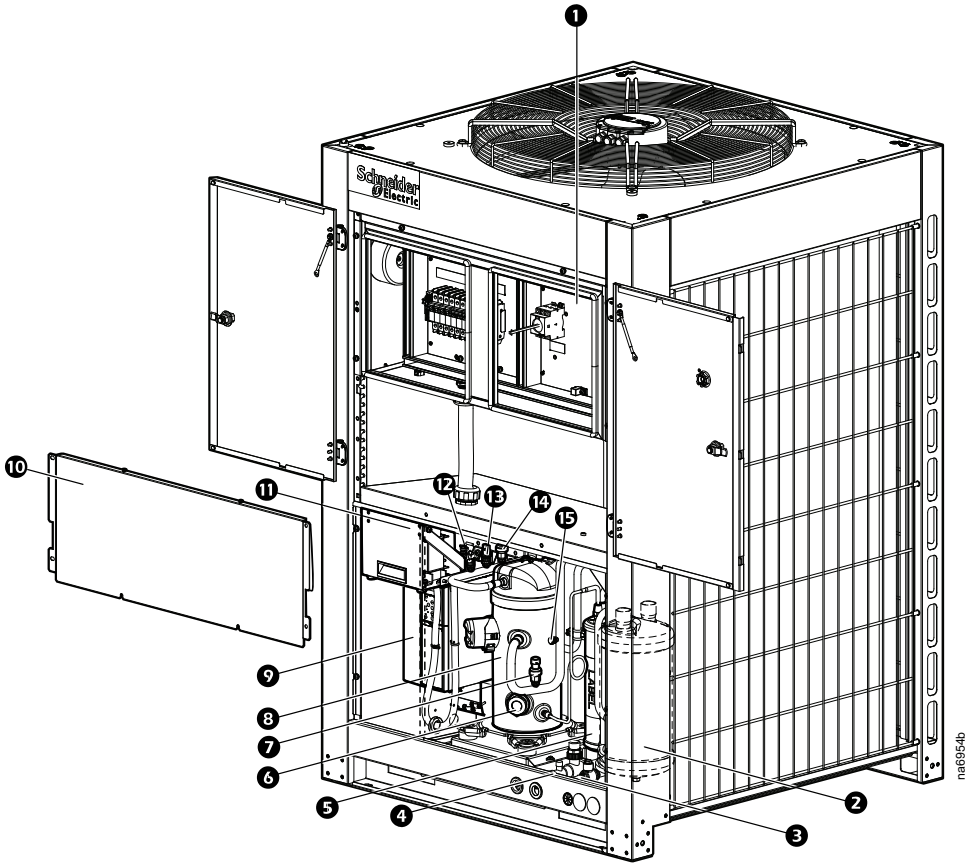
ACCU30301, ACCU30302, ACCU30001, ACCU30002, ACCU30101, ACCU30102



Item	Description
❶	Electrical panel
❷	Accumulator
❸	Liquid line connection
❹	Suction line connection
❺	Oil separator
❻	Compressor sight glass
❼	Low (suction) pressure sensor
❽	Variable-speed compressor

Item	Description
❾	Variable frequency drive (VFD)
❿	Interior protection panel
⓫	EMI filter
⓬	Service port
⓭	High pressure switch
⓮	High (discharge) pressure sensor
⓯	Service port

ACCU30201, ACCU30202



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❶	Electrical panel
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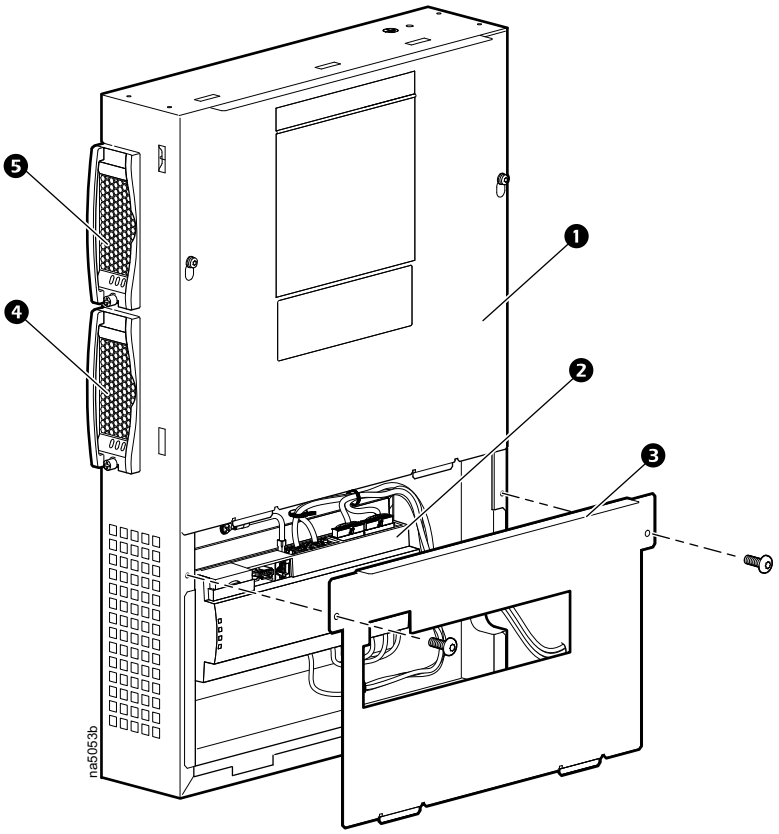
❽	Variable-speed compressor

Item	Description
❾	Variable frequency drive (VFD)
❿	Interior protection panel
⓫	Line reactor and EMI filter
⓬	Service port
⓭	High pressure switch
⓮	High (discharge) pressure sensor
⓯	Service port

Electrical Panels

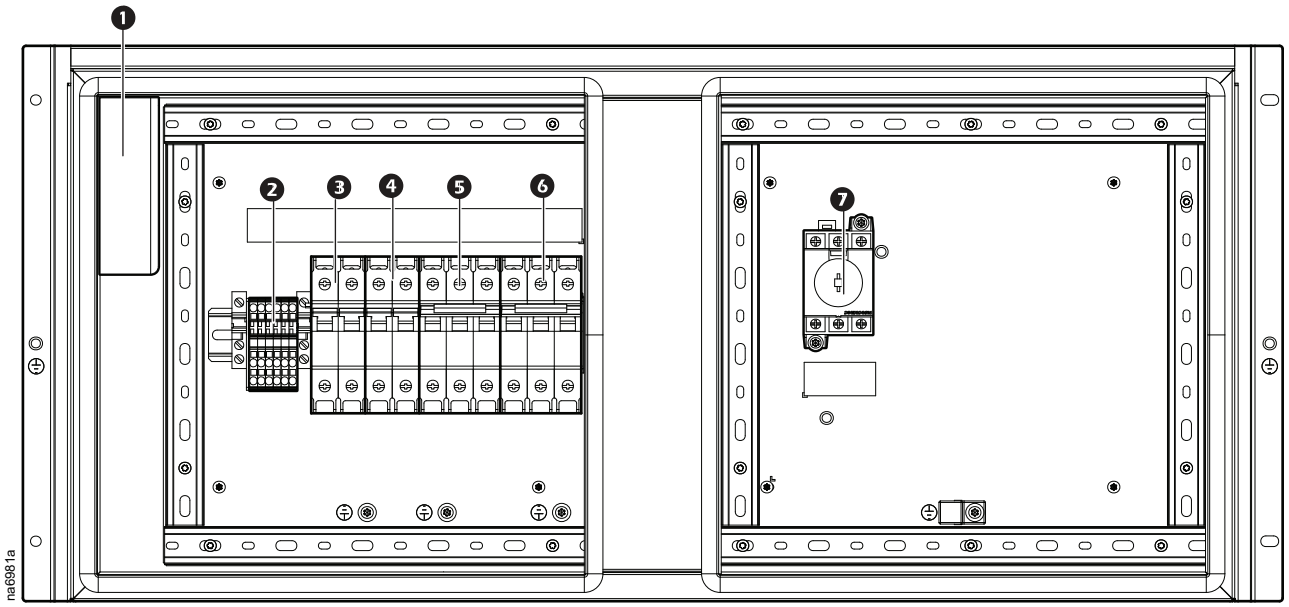
Indoor Unit



Item	Description
❶	Upper electrical box cover
❷	J5 controller
❸	Controller cover
❹	Power supply 2 (ACRD300D, ACRD300GD, ACRD300D-LT, and ACRD300GD-LT)
❺	Power supply 1

Outdoor Unit

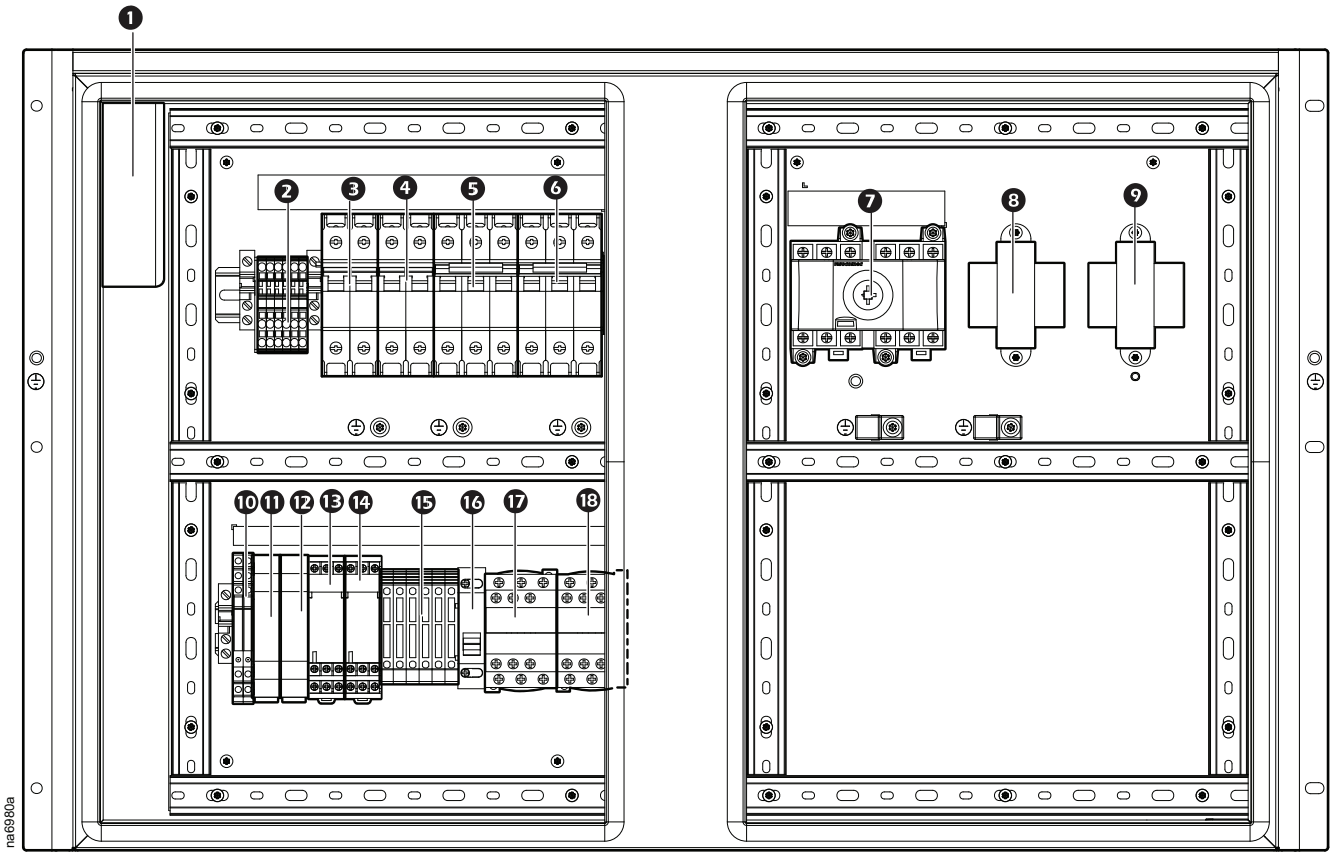
ACCU30301



Item	Description
❶	Crank case heater power transformer
❷	Terminal block
❸	Crank case heater switch
❹	Crank case heater power transformer switch

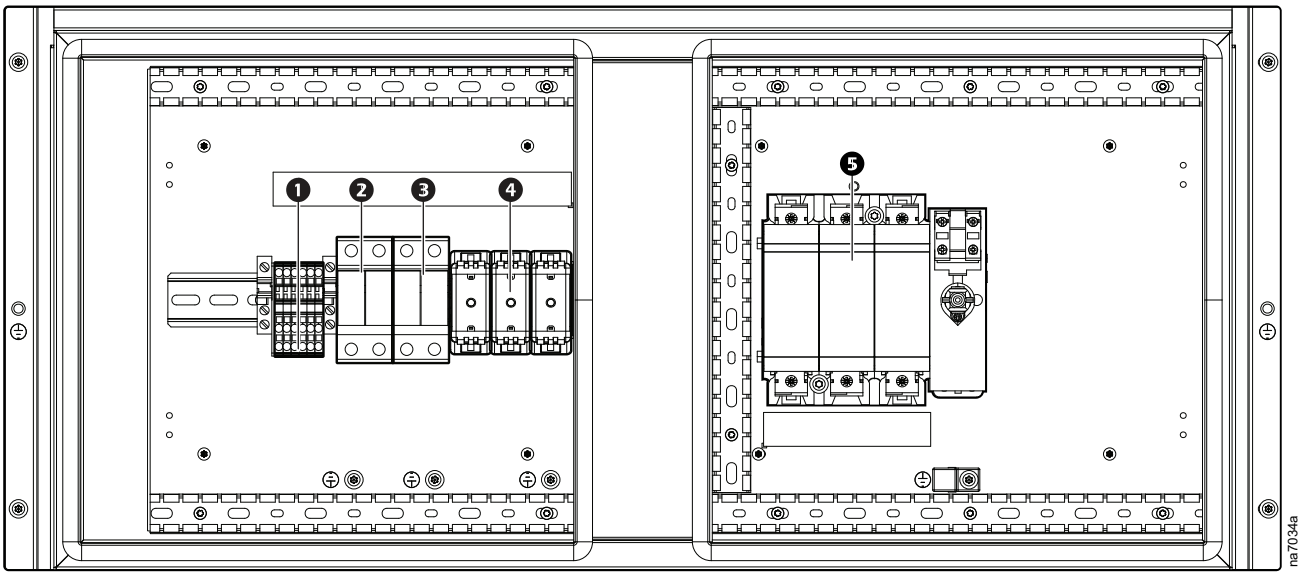
Item	Description
❺	Fan motor switch
❻	Compressor variable-speed drive switch
❼	Main switch

ACCU30302



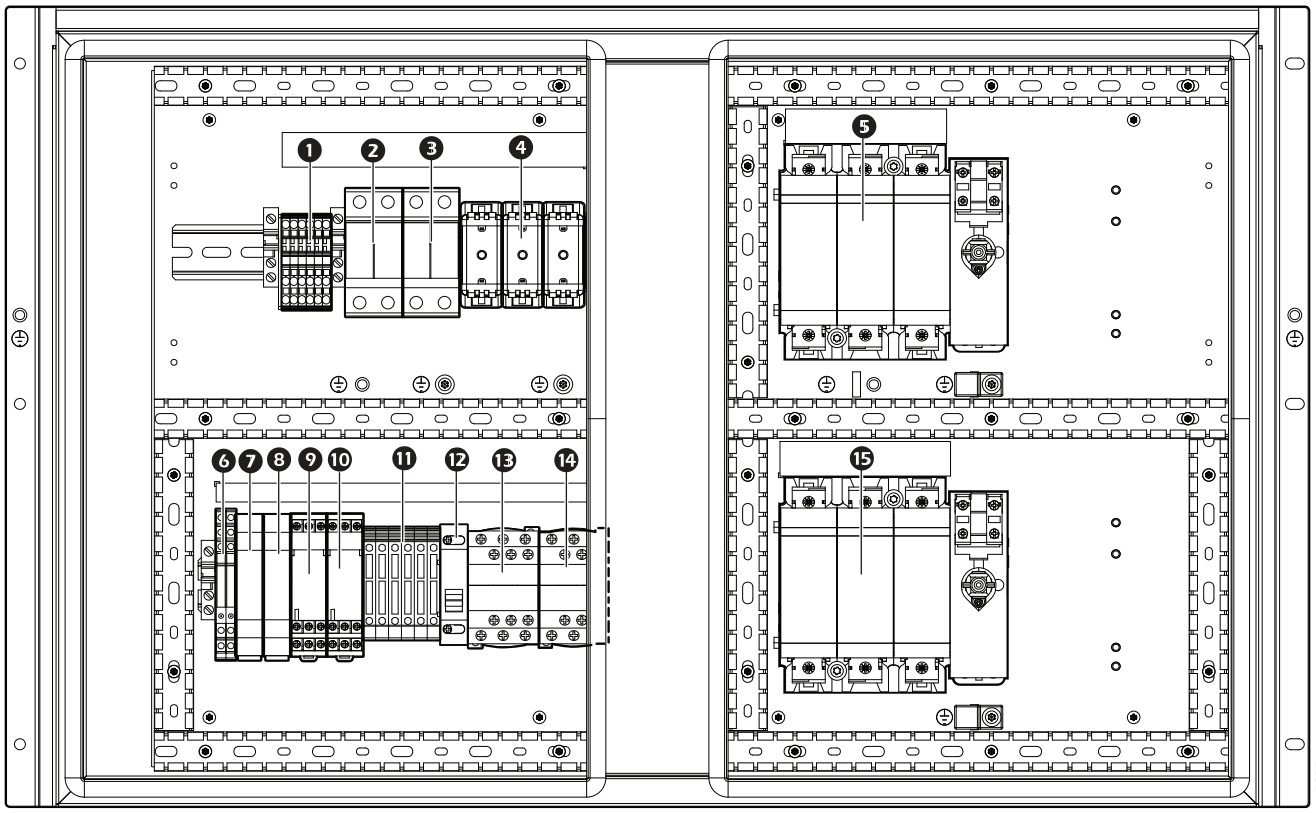
Item	Description	Item	Description
❶	Crank case heater power transformer	❿	Supply line selector relay
❷	Terminal block	⓫	Supply A line monitor
❸	Crank case heater switch	⓬	Supply B line monitor
❹	Crank case heater power transformer switch	⓭	Supply A contactor timer
❺	Fan motor switch	⓮	Supply B contactor timer
❻	Compressor variable-speed drive switch	⓯	ATS circuit fuse
❼	Main switch	⓰	Supply line selector A/B
❽	ATS supply A power transformer	⓱	Supply A contactor
❾	ATS supply B power transformer	⓲	Supply B contactor

ACCU30001



Item	Description	Item	Description
❶	Terminal block	❹	Compressor variable-speed drive switch
❷	Crank case heater switch	❺	Main switch
❸	Fan motor switch		

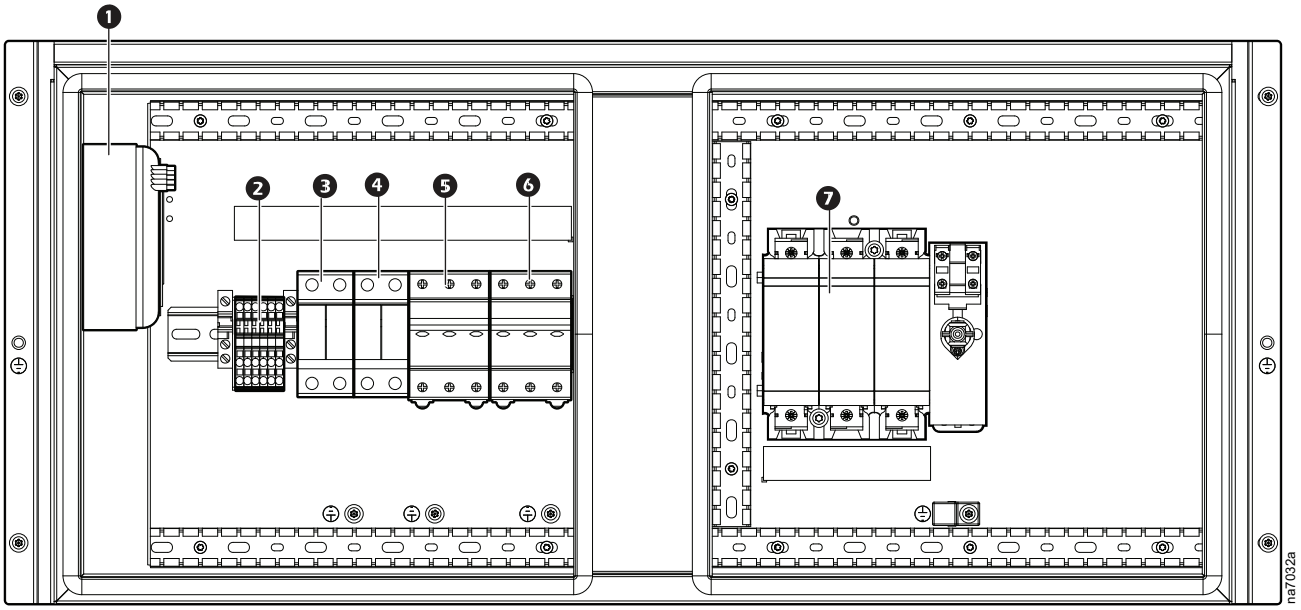
ACCU30002



Item	Description
1	Terminal block
2	Crank case heater switch
3	Fan motor switch
4	Compressor variable-speed drive switch
5	Power supply A main switch
6	Supply line selector relay
7	Supply A line monitor
8	Supply B line monitor

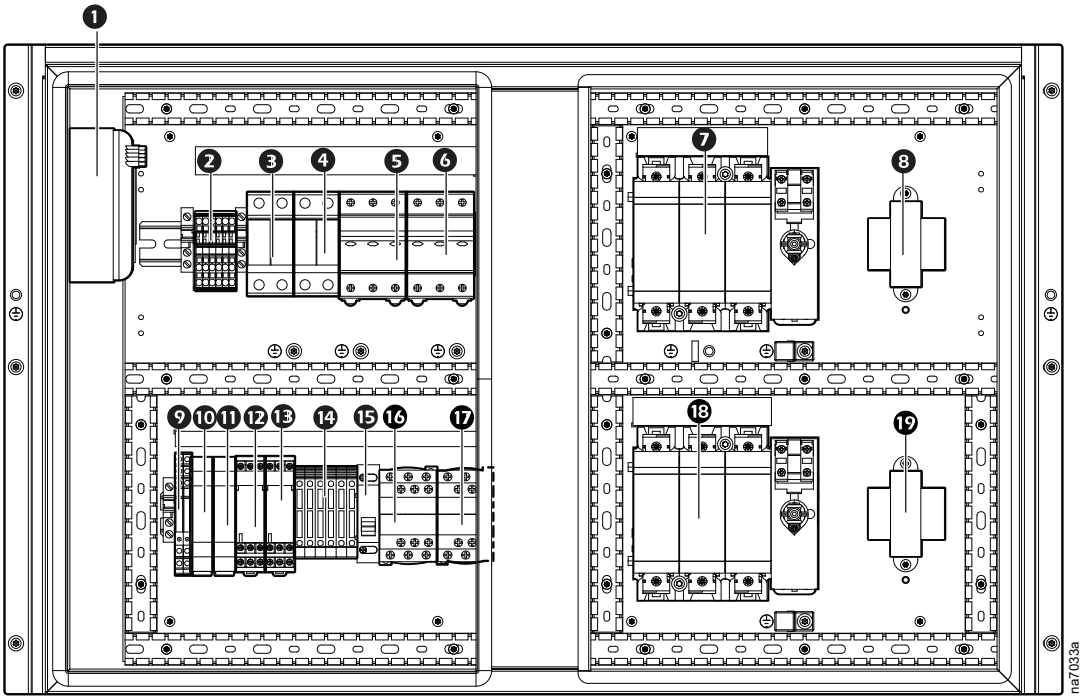
Item	Description
9	Supply A contactor timer
10	Supply B contactor timer
11	ATS circuit fuse
12	Supply line selector A/B
13	Supply A contactor
14	Supply B contactor
15	Power supply B main switch

ACCU30101 and ACCU30201



Item	Description	Item	Description
❶	Crank case heater power transformer	❺	Fan motor switch
❷	Terminal block	❻	Compressor variable-speed drive switch
❸	Crank case heater switch	❼	Main switch
❹	Crank case heater power transformer switch		

ACCU30102 and ACCU30202



Item	Description	Item	Description
❶	Crank case heater power transformer	⓫	Supply B line monitor
❷	Terminal block	⓬	Supply A contactor timer
❸	Crank case heater switch	⓭	Supply B contactor timer
❹	Crank case heater power transformer switch	⓮	ATS circuit fuse
❺	Fan motor switch	⓯	Supply line selector A/B
❻	Compressor variable-speed drive switch	⓰	Supply A contactor
❼	Power supply A main switch	⓱	Supply B contactor
❽	ATS supply A power transformer	⓲	Power supply B main switch
❾	Supply line selector relay	⓳	ATS supply B power transformer
❿	Supply A line monitor		

Performance Specifications

Cooling Capacity

Operating Conditions	Sensible Net Capacity – kW (BTU/h)	Energy Efficiency (W/W)
Minimum Load*	9.5 (32,400)	—
GB19413	16.3 (55,600)	4.0 AEER
ASHRAE 127 Class 3	25 (85,300)	3.2 SCOP
Maximum at 35°C (95°F) Return Air Temperature	27 (92,100)	—
Maximum at 40°C (104°F) Return Air Temperature	30 (102,400)	—

*If lower than the minimum load, the unit may cycle the compressor.

NOTE: Outdoor air temperature is 35°C (95°F) unless otherwise stated.

NOTE: Data is for evaporator fans, condenser fans, and compressors operating at maximum capacity.

General Data

Indoor Units

Air System—Fan	
Fan Type	EC
Size – mm (in.)	220 (8.7)
Number of Fans	8
Air Volume – CMH (SCFM)	5440 (3200)
Fan Power – W (total)	850
Emergency Air Volume* – CMH (SCFM)*	6300 (3700)
Cooling Coil	
Face Area – m^2 (ft^2)	0.51 (5.49)
Rows Deep	3
Filters—Washable (Standard)	
Quantity	2
Size – mm (in.)	238 x 933 (9.375 x 36.75)
Depth – mm (in.)	12.7 (0.5)
Efficiency	MERV 1
Filters—Pleated (Optional)	
Quantity	2
Size – mm (in.)	238 x 933 (9.375 x 36.75)
Depth – mm (in.)	51 (2)
Efficiency	MERV 8
Physical Data	
Height – mm (in.)	1991 (78.39)
Width – mm (in.)	300 (11.81)
Depth – mm (in.)	1095 (43.11)
Connection Sizes (Not Piping Sizes)	
Suction Piping	1 1/4 in. (12 UNF), 7/8 in. tube
Liquid Piping	1 in. (14 UNS), 1/2 in. tube
Condensate Drain	4.77 mm (3/16 in.) ID 6.35 mm (1/4 in.) OD
Refrigerant	
Type	R410A
Standard Charge for Standard Units – kg (lb)	15.0 (33.0)
Standard Charge for Low Temperature Units – kg (lb)	19.5 (43.0)

*Emergency air flow is available with dual fan power supplies and a humidity sensor.

Outdoor Units

Air System—Fan	
Fan Type	EC
Size – mm (in.)	710 (28.0)
Number of Fans	1
Cooling Coil	
Face Area – m^2 (ft^2)	3.024 (32.55)
Rows Deep	3
Physical Data	
Height – mm (in.)	1555 (61.2)
Width – mm (in.)	1000 (39.4)
Depth – mm (in.)	1000 (39.4)
Connection Sizes (Not Piping Sizes)	
Gas Piping	7/8 in. ODF
Liquid Piping	1/2 in. ODF
Refrigerant Piping*	
Maximum Equivalent Length – m (ft)	120 (393)
Maximum Elevation** – m (ft)	30 (98)

*See the Installation Manual for more information.
**Condensing units may be level with or higher than the indoor unit.

See the *Installation Manual* for more information on refrigerant piping.

Altitude Correction Factors

Room Conditions: 22°C (72°F) DB/50%RH				
Altitude – m (ft)	**Specific Volume – cm^3/kg (ft^3/lb)**	**Density –g/m^3 (lb/ft^3)**	**Density Ratio***	**Capacity Correction****
0 (0)	847.77 (13.58)	1185.37 (0.074)	1.000	1.000
305 (1000)	879.61 (14.09)	1137.31 (0.071)	0.964	0.981
610 (2000)	912.70 (14.62)	1089.26 (0.068)	0.929	0.962
915 (3000)	947.66 (15.18)	1057.22 (0.066)	0.895	0.933
1219 (4000)	983.86 (15.76)	1009.16 (0.063)	0.862	0.913
1524 (5000)	1021.32 (16.36)	977.13 (0.061)	0.830	0.884
1829 (6000)	1061.28 (17.00)	945.10 (0.059)	0.799	0.865
2134 (7000)	1103.10 (17.67)	913.05 (0.057)	0.769	0.846
2438 (8000)	1146.80 (18.37)	865.00 (0.054)	0.739	0.826
2743 (9000)	1193.00 (19.11)	832.97 (0.052)	0.711	0.807
3048 (10,000)	1241.69 (19.89)	80.92 (0.050)	0.683	0.787

*Density ratio is used for air flow correction factor.
**Capacity correction is used to de-rate performance.

Electrical Data

Indoor Units

Model	MCA	MOP	FLA
ACRD300	n/a	n/a	8.0–6.7
ACRD300D	n/a	n/a	8.0-6.7
ACRD300G	n/a	n/a	8.0–6.7
ACRD300GD	n/a	n/a	8.0–6.7
ACRD300-LT	n/a	n/a	8.0–6.7
ACRD300D-LT	n/a	n/a	8.0–6.7
ACRD300G-LT	n/a	n/a	8.0–6.7
ACRD300GD-LT	n/a	n/a	8.0–6.7
ACRD301	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**
ACRD301G	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**
ACRD306	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**
ACRD306G	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**
ACRD307	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**
ACRD307G	20.3* / 9.3**	25.0* / 15.0**	16.5–13.8* / 8.0–6.7**

*Data for units with 100–120-V~ power supplies.
**Data for units with 200–240-V~ power supplies.

Outdoor Units

Model	MCA	MOP	FLA
ACCU30301	n/a	n/a	15.8
ACCU30302	n/a	n/a	15.8
ACCU30001	50.05	80	n/a
ACCU30002	50.05	80	n/a
ACCU30101	23.1	40	n/a
ACCU30102	23.1	40	n/a
ACCU30201	n/a	n/a	15.8
ACCU30202	n/a	n/a	15.8

Sound Data

Indoor Units—All Units

Fan Speed %	Airflow – l/s (SCFM)	Weighted Sound Pressure dBA* at Frequency – Hz re: 20µPa							Lp Sound Pressure – dB re: 20µPa
		125	250	500	1000	2000	4000	8000	dBA*
30	430 (900)	36.5	36.1	44.7	46.3	40.3	35.8	22.9	49.8
40	610 (1300)	36.2	42.1	52.6	51.2	47.7	45.9	34.3	56.4
50	780 (1650)	30.2	48.8	54.7	61.5	53.1	52.0	42.8	63.4
60	940 (2000)	32.9	55.2	56.0	62.3	57.7	56.2	48.3	65.4
70	1110 (2350)	33.8	60.3	59.3	65.7	62.1	59.5	52.9	69.2
80	1240 (2700)	34.6	61.8	63.5	71.9	64.1	63.0	56.8	73.9
90	1390 (2950)	35.1	54.3	67.9	72.3	68.1	65.9	60.1	75.4
100	1510 (3200)	43.1	53.8	70.0	73.3	70.1	68.9	62.9	77.1
130	1750 (3700)	44.8	55.1	77.5	74.4	74.1	70.3	63.6	80.9

*Weighted Sound Pressure (dBA) data is measured in a semi-anechoic room in accordance with ISO 3745, at 1.8-m (6.0-ft) distance from the unit and 1-m (3.3-ft) height.

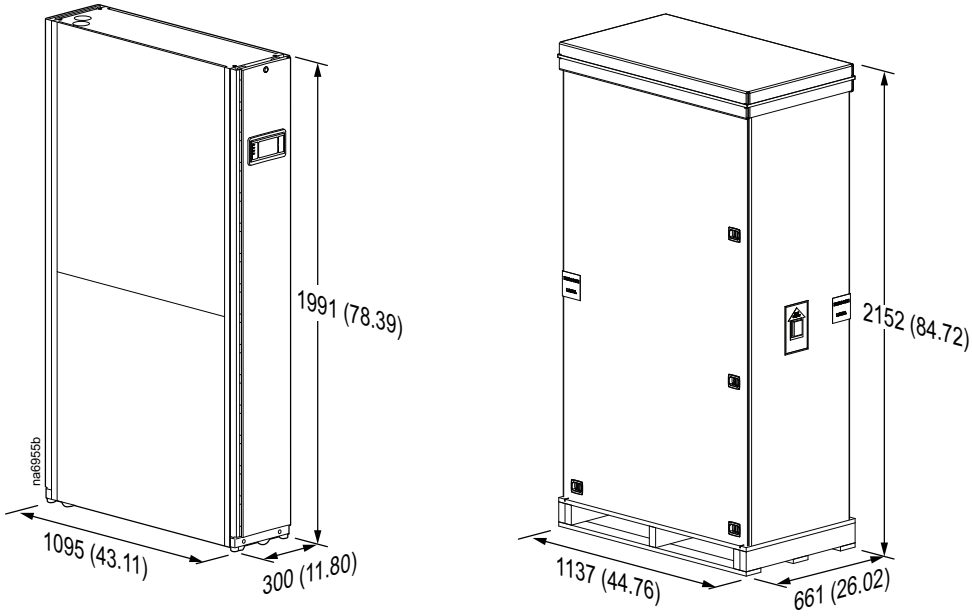
Outdoor Units—All Units

Fan Speed %	Compressor RPM	Acoustic Hood	Weighted Sound Pressure dBA* at Frequency – Hz re: 20µPa							Lp Sound Pressure – dB re: 20µPa
			125	250	500	1000	2000	4000	8000	dBA*
70	5400	Without	39.6	56.3	54.8	56.6	55.8	55.5	47.2	63.0
100	6000	Without	41.7	54.8	55.4	56.5	56.6	57.9	48.4	63.6
70	5400	With	38.3	52.7	52.3	54.3	51.2	50.1	41.1	59.5
100	6000	With	41.4	53.6	54.5	55.8	53.2	53.6	43.3	61.4

*Weighted Sound Pressure (dBA) data is measured in a semi-anechoic room in accordance with ISO 3745, at 2.0-m (6.6-ft) distance from the unit and 1-m (3.3-ft) height.

Dimensions and Weights

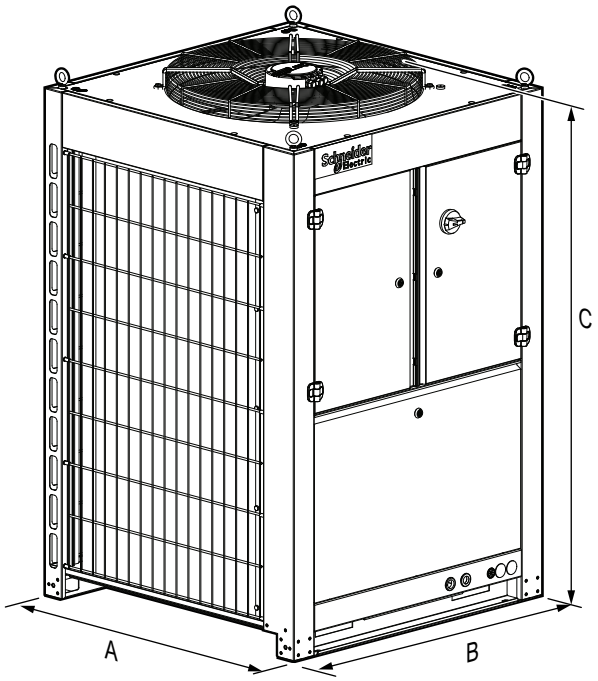
Indoor Unit

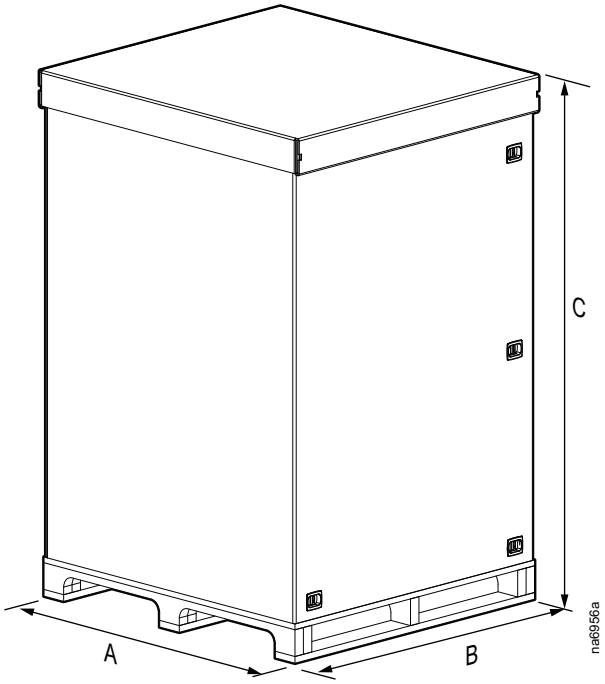


NOTE: Image is an example only to show dimensions of unit: your unit may differ.

SKU	Net Weight – kg (lb)	Shipping Weight – kg (lb)
ACRD300, ACRD300D, ACRD300G, ACRD300GD, ACRD301, ACRD301G	160 (352.7)	200 (440.9)
ACRD300-LT, ACRD300D-LT, ACRD300G-LT, ACRD300GD-LT, ACRD306, ACRD306G	175 (385.8)	215 (474.0)
ACRD307, ACRD307G	180 (396.8)	220 (485.0)

Outdoor Unit





SKU	Unit Dimensions – mm (in.)			Shipping Dimensions – mm (in.)			Net Weight – kg (lb)	Shipping Weight – kg (lb)
	A	B	C	A	B	C		
ACCU30301	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	267 (588.6)	297 (654.8)
ACCU30302	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	272 (600.0)	305 (672.4)
ACCU30001	1000 (39.4)	1000 (39.4)	1600 (63.0)	1136 (44.7)	1085 (42.7)	1745 (68.7)	267 (588.6)	297 (654.8)
ACCU30002	1000 (39.4)	1000 (39.4)	1600 (63.0)	1136 (44.7)	1085 (42.7)	1745 (68.7)	272 (600.0)	305 (672.4)
ACCU30201	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	273 (601.9)	303 (668.0)
ACCU30202	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	278 (612.9)	308 (679.0)
ACCU30101	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	267 (588.6)	297 (654.8)
ACCU30102	1000 (39.4)	1000 (39.4)	1555 (61.2)	1136 (44.7)	1085 (42.7)	1745 (68.7)	272 (600.0)	305 (672.4)

Service Access

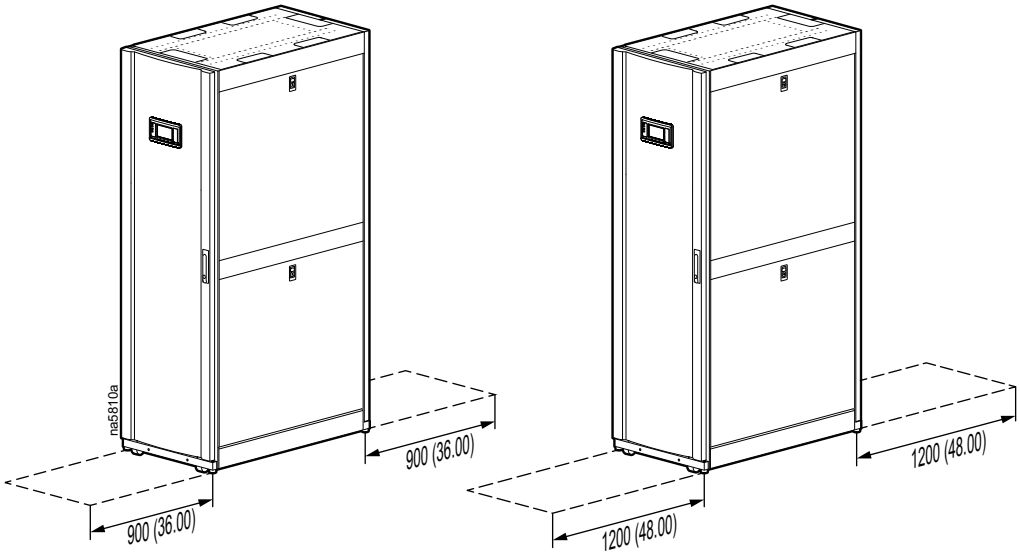
Indoor Unit

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

Most of the cooling components in the equipment can be replaced while the unit is installed in row and without the use of heavy lift equipment or a welding torch. However, if it is necessary to remove the unit for repair, use the casters on the equipment to remove it from the row. An area of minimum 1200 mm (48 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 further service access requirements.

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



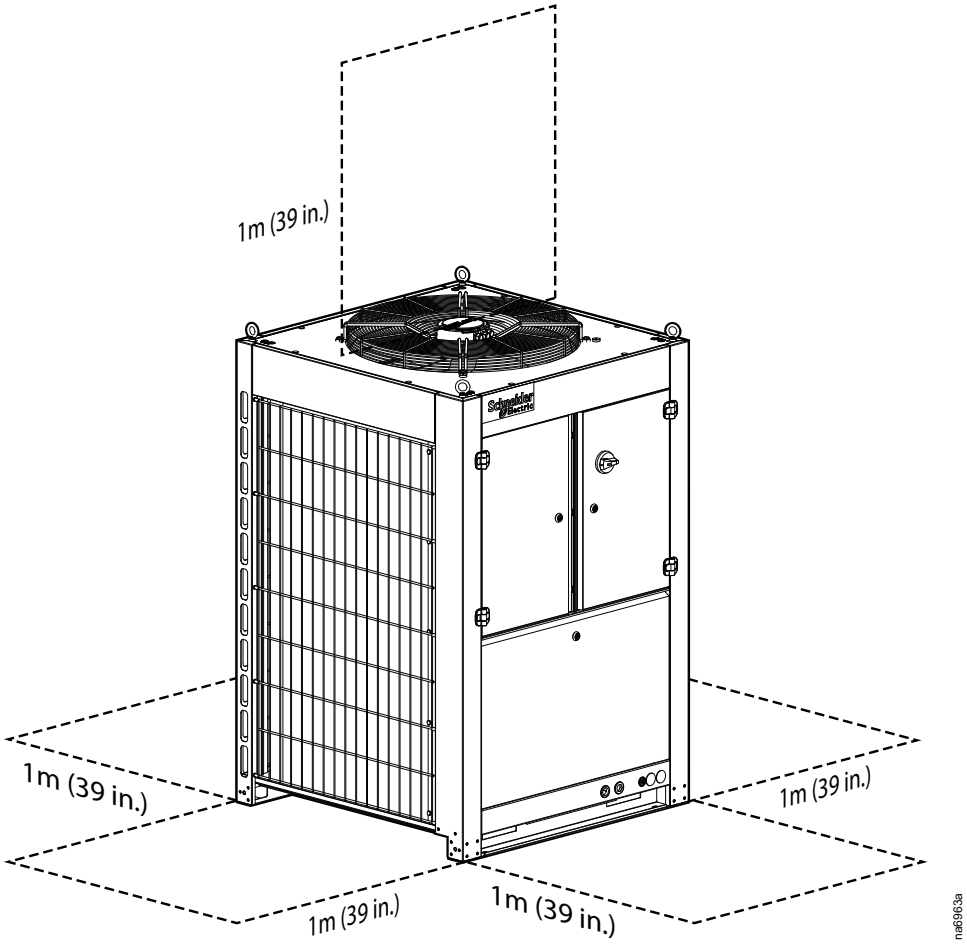
SERVICE ACCESS REQUIRED WHEN EQUIPMENT IS INSIDE THE ROW

FREE SPACE NEEDED TO MOVE EQUIPMENT OUTSIDE THE ROW

NOTE: Dimensions are shown in mm (in.).

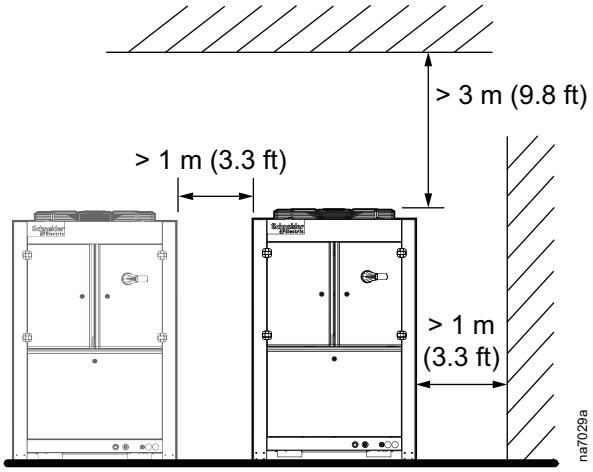
Outdoor Unit

A minimum of 1 m (39 in.) of clear space on all sides of the equipment is recommended for service access.



Airflow Clearance

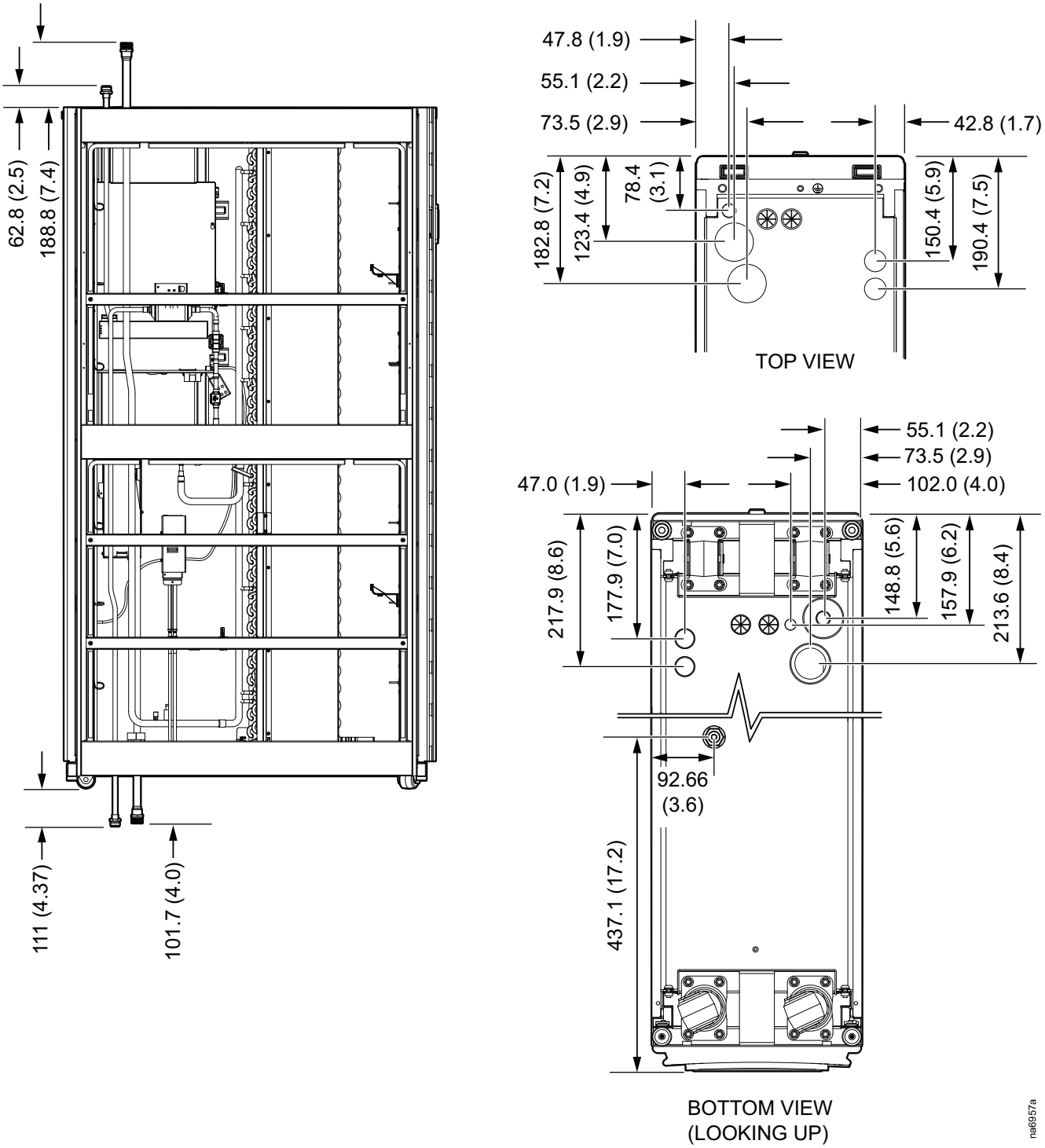
The following clearances are required for proper airflow around the outdoor unit.



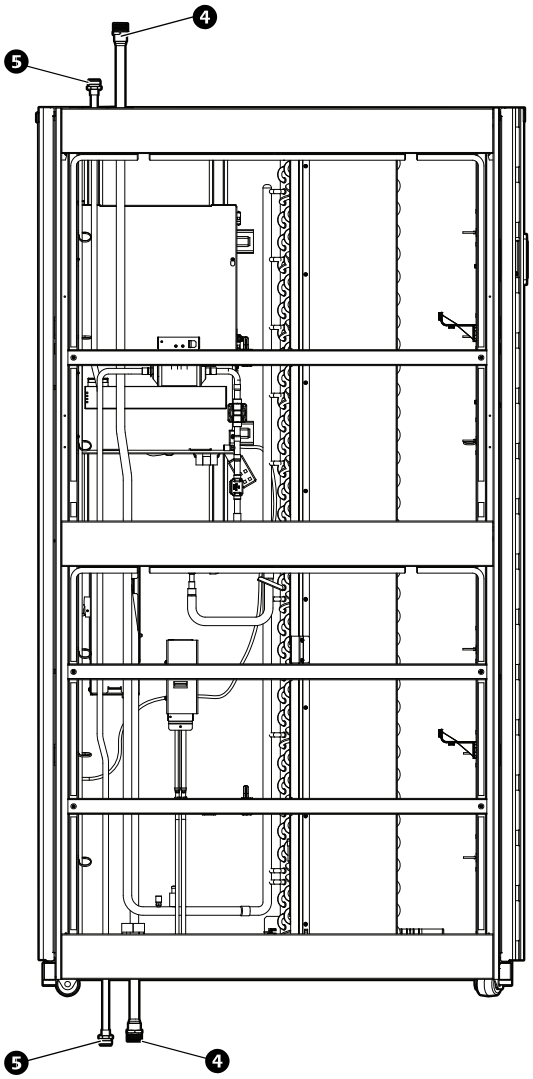
Piping and Electrical Access Locations

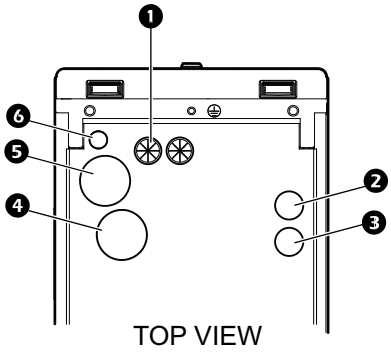
Indoor Unit

ACRD300, ACRD300G, ACRD300D, ACRD300GD, ACRD300-LT, ACRD300G-LT, ACRD300D-LT, ACRD300GD-LT

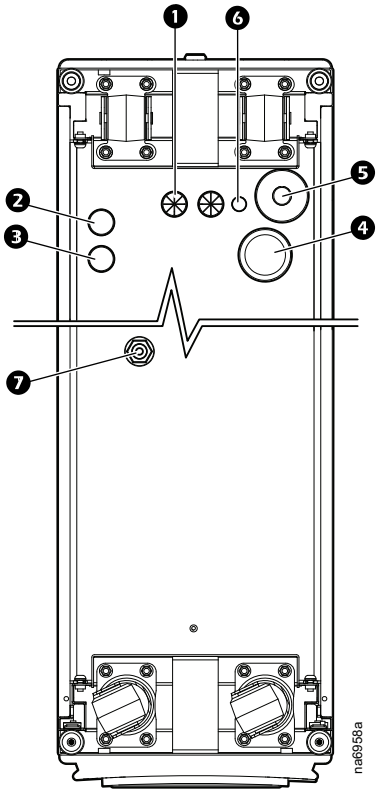


NOTE: Dimensions are shown in mm (in.).





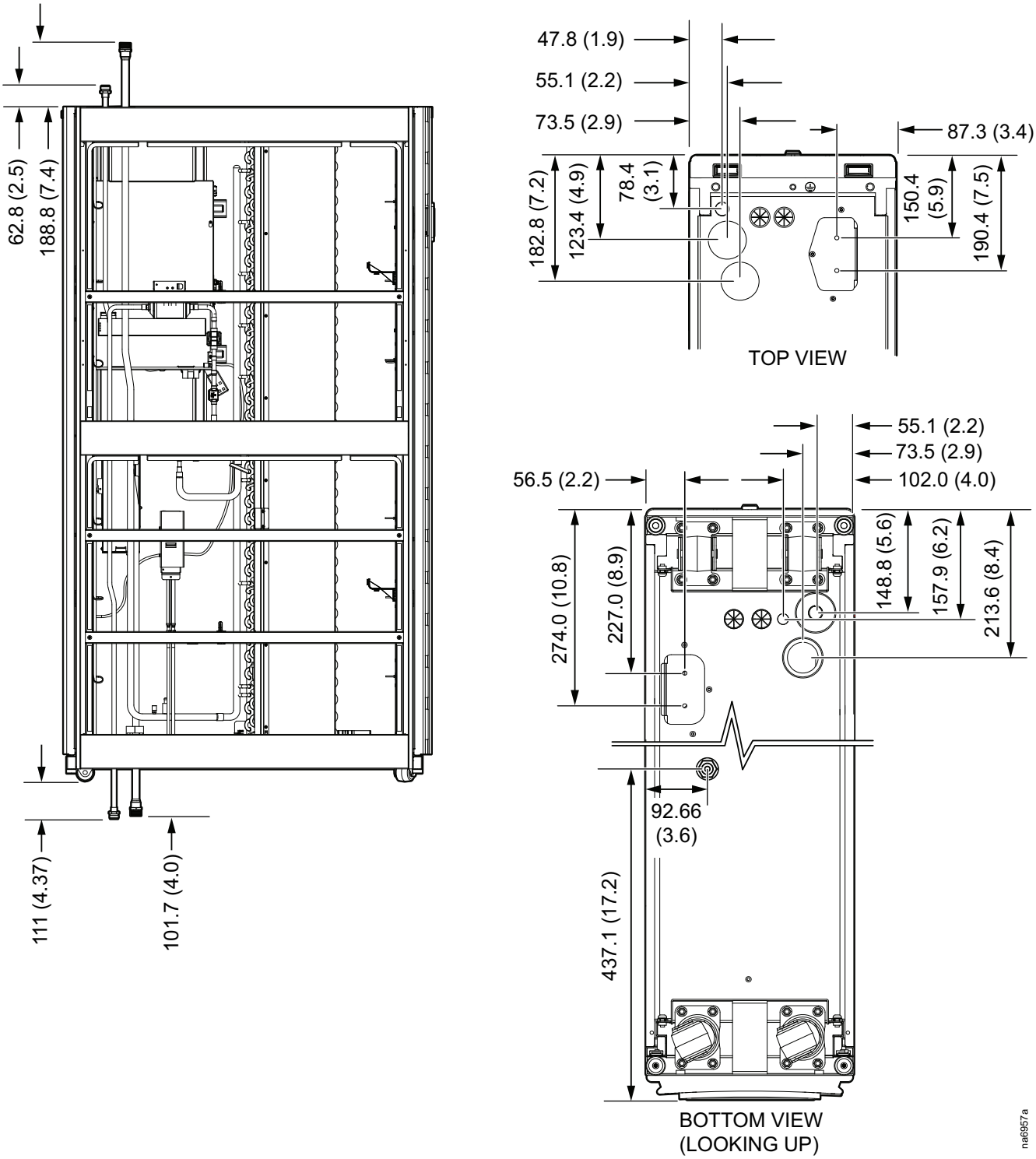
TOP VIEW

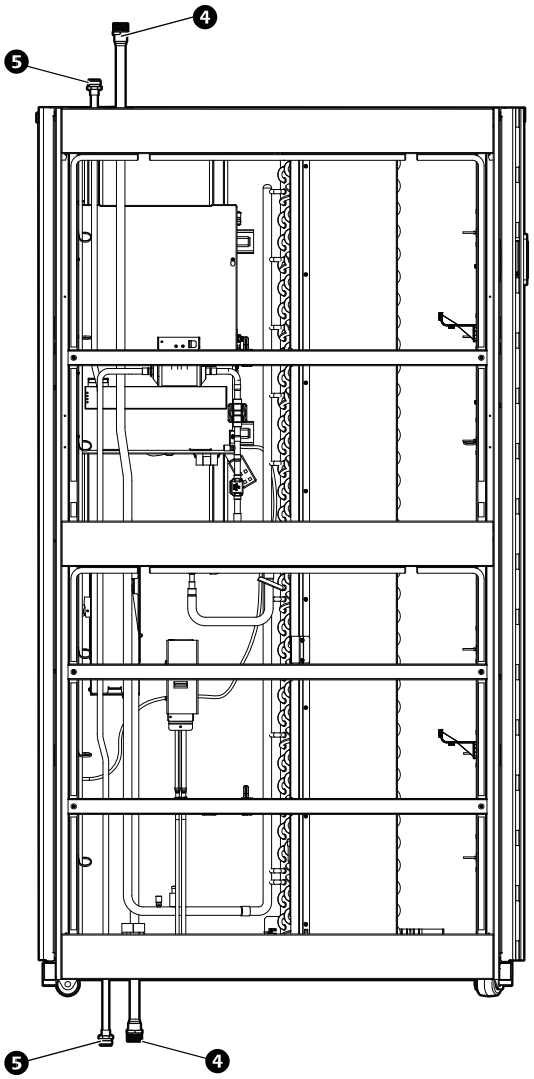


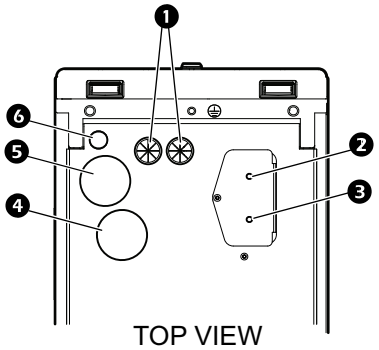
BOTTOM VIEW
(LOOKING UP)

Item	Description
❶	Low voltage input wiring inlets
❷	Power supply 1 inlet
❸	Power supply 2 inlet
❹	Suction line connection—1 1/4 in. (12 UNF)
❺	Liquid line connection—1 in. (14 UNS)
❻	Condensate drain line outlet
❼	Gravity drain connection

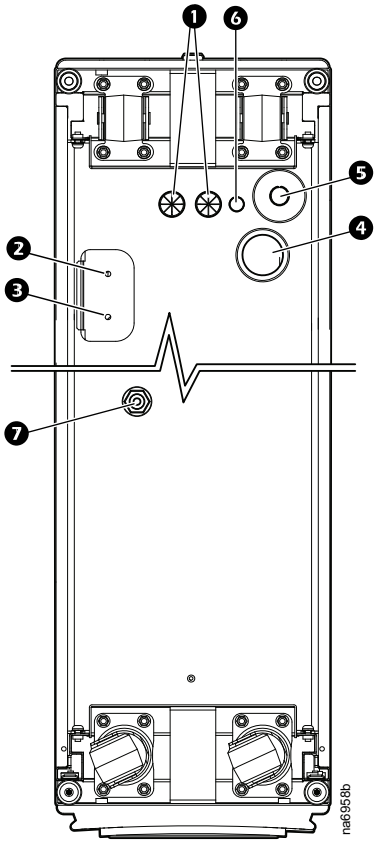
ACRD301, ACRD301G, ACRD306, ACRD306G, ACRD307, ACRD307G







TOP VIEW



BOTTOM VIEW
(LOOKING UP)

Item	Description
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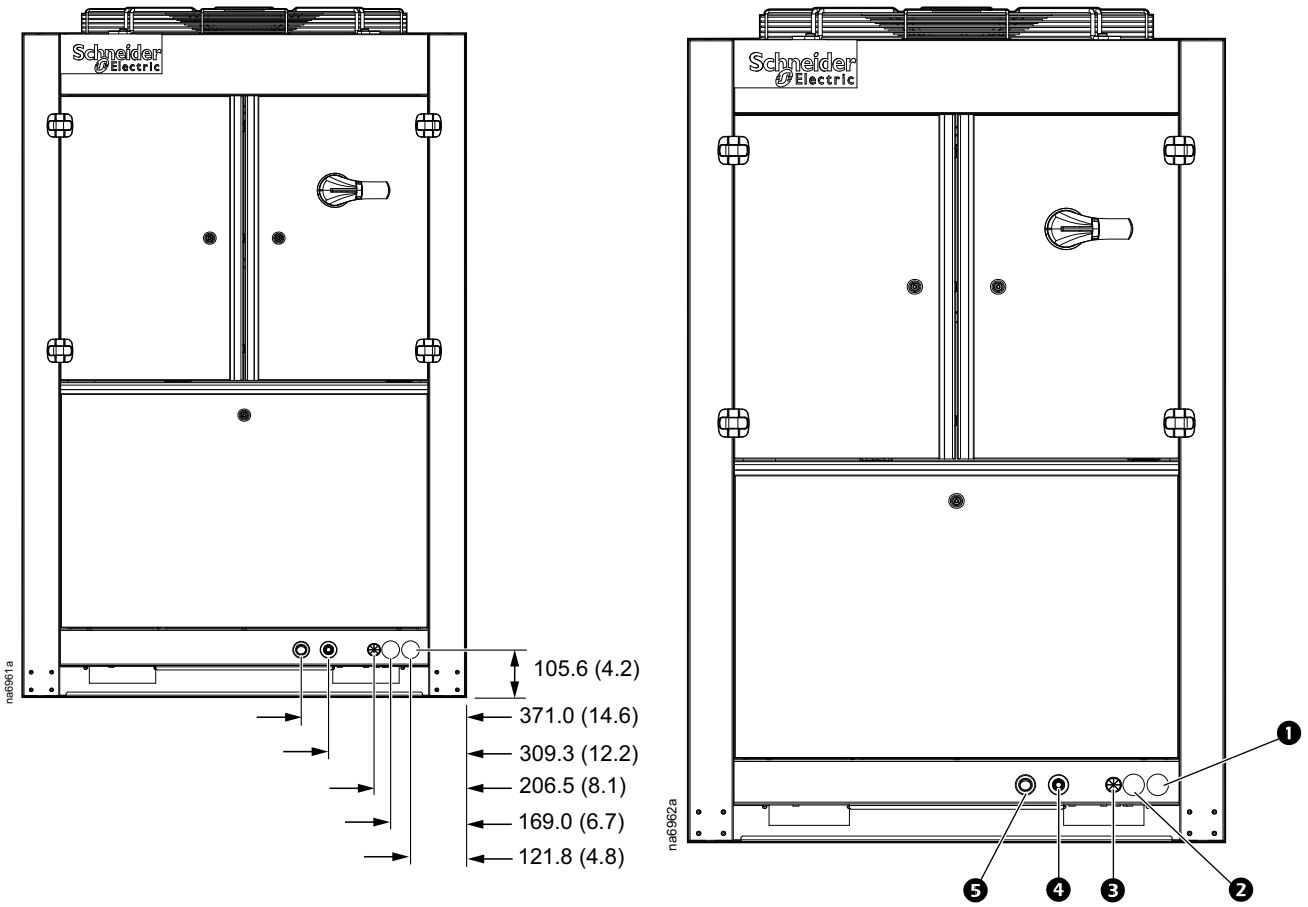
❻	Condensate drain line outlet
❼	Gravity drain connection

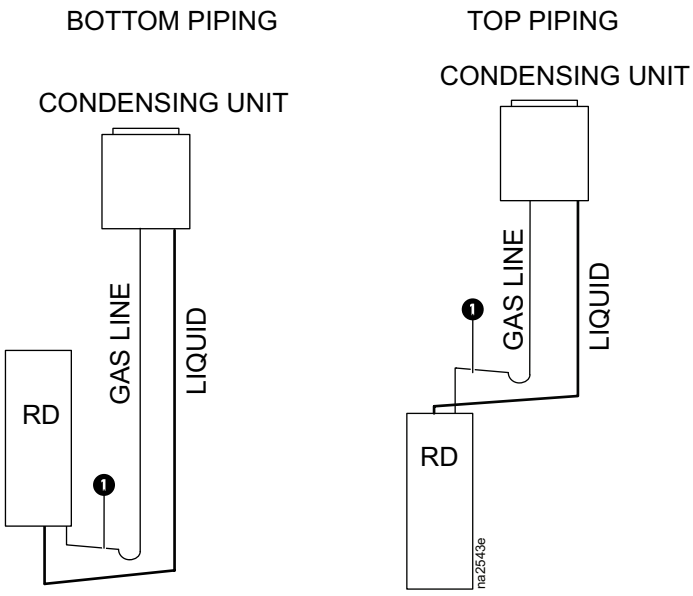
Outdoor Unit



NOTE: Dimensions are shown in mm (in.).

Item	Description
❶	Power supply 1 inlet
❷	Power supply 2 inlet
❸	Communication cable inlet
❹	Liquid line connection inlet
❺	Suction line connection inlet

Refrigeration Piping Diagram



Item	Description
❶	Pitch in direction of refrigerant flow

Item	Description
	P-trap

Facility Planning

Indoor Units—Standard

Model	ACRD300	ACRD300D	ACRD300G	ACRD300GD
Input Voltage	200–240 V	200–240 V	200–240 V	200–240 V
Phases	1	1	1	1
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)
Cabinet Height – mm (in.)	1991 (78.39)	1991 (78.39)	1991 (78.39)	1991 (78.39)
Cabinet Depth – mm (in.)	1087 (42.80)	1087 (42.80)	1087 (42.80)	1087 (42.80)
Net Weight – kg (lb)	160 (352.7)	160 (352.7)	160 (352.7)	160 (352.7)
Power Connection Type	Hardwired	Hardwired	Hardwired	Hardwired
Full Load Amps (FLA)*	8.0–6.7	8.0–6.7	8.0–6.7	8.0–6.7
Minimum Circuit Ampacity (MCA)*	N/A	N/A	N/A	N/A
Maximum Overcurrent Protection (MOP)*	N/A	N/A	N/A	N/A
Features/Options				
Fan Type	Electronically commutated	Electronically commutated	Electronically commutated	Electronically commutated
Maximum Airflow – l/s (CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)
Fan Control	Variable speed	Variable speed	Variable speed	Variable speed
Number of Fans	8	8	8	8
Hot Swappable Fans	Yes	Yes	Yes	Yes
Hot Aisle Containment Compatible	Yes	Yes	Yes	Yes
Rack Aisle Containment Compatible	Yes	Yes	Yes	Yes
Refrigerant Type	R410A	R410A	R410A	R410A
Network Management Card	Included	Included	Included	Included
Standard Filter Type	0.5–in. washable	0.5–in. washable	0.5–in. washable	0.5–in. washable
Standard Filter Efficiency	MERV 1	MERV 1	MERV 1	MERV 1
Optional Filter Type	2–in. pleated	2–in. pleated	2–in. pleated	2–in. pleated
Optional Filter Efficiency	MERV 8	MERV 8	MERV 8	MERV 8
Drainage System	Condensate pump	Condensate pump	Gravity drain	Gravity drain
Number of Rack Inlet Temperature Sensors	1	1	1	1
Piping Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Electrical Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Cable Type Water Detector	Optional	Optional	Optional	Optional

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Model	ACRD301	ACRD301G
Input Voltage	100–120 V / 200–240 V	100–120 V / 200–240 V
Phases	1	1
Frequency	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	300 (11.81)	300 (11.81)
Cabinet Height – mm (in.)	1991 (78.39)	1991 (78.39)
Cabinet Depth – mm (in.)	1087 (42.80)	1087 (42.80)
Net Weight – kg (lb)	160 (352.7)	160 (352.7)
Power Connection Type	Hardwired	Hardwired
Full Load Amps (FLA)*	16.5–13.8 / 8.0–6.7	16.5–13.8 / 8.0–6.7
Minimum Circuit Ampacity (MCA)*	20.3 / 9.3	20.3 / 9.3
Maximum Overcurrent Protection (MOP)*	25.0 / 15.0	25.0 / 15.0
Features/Options		
Fan Type	Electronically commutated	Electronically commutated
Maximum Airflow – l/s (CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)
Fan Control	Variable speed	Variable speed
Number of Fans	8	8
Hot Swappable Fans	Yes	Yes
Hot Aisle Containment Compatible	Yes	Yes
Rack Aisle Containment Compatible	Yes	Yes
Refrigerant Type	R410A	R410A
Network Management Card	Included	Included
Standard Filter Type	0.5–in. washable	0.5–in. washable
Standard Filter Efficiency	MERV 1	MERV 1
Optional Filter Type	2–in. pleated	2–in. pleated
Optional Filter Efficiency	MERV 8	MERV 8
Drainage System	Condensate pump	Gravity drain
Number of Rack Inlet Temperature Sensors	1	1
Piping Connections	Top or bottom	Top or bottom
Electrical Connections	Top or bottom	Top or bottom
Cable Type Water Detector	Optional	Optional

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Indoor Units—Low Temperature

Model	ACRD300-LT	ACRD300D-LT	ACRD300G-LT	ACRD300GD-LT
Input Voltage	200–240 V	200–240 V	200–240 V	200–240 V
Phases	1	1	1	1
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)
Cabinet Height – mm (in.)	1991 (78.39)	1991 (78.39)	1991 (78.39)	1991 (78.39)
Cabinet Depth – mm (in.)	1087 (42.80)	1087 (42.80)	1087 (42.80)	1087 (42.80)
Net Weight – kg (lb)	160 (352.7)	160 (352.7)	160 (352.7)	160 (352.7)
Power Connection Type	Hardwired	Hardwired	Hardwired	Hardwired
Full Load Amps (FLA)*	8.0–6.7	8.0–6.7	8.0–6.7	8.0–6.7
Minimum Circuit Ampacity (MCA)*	N/A	N/A	N/A	N/A
Maximum Overcurrent Protection (MOP)*	N/A	N/A	N/A	N/A
Features/Options				
Fan Type	Electronically commutated	Electronically commutated	Electronically commutated	Electronically commutated
Maximum Airflow – l/s (CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)
Fan Control	Variable speed	Variable speed	Variable speed	Variable speed
Number of Fans	8	8	8	8
Hot Swappable Fans	Yes	Yes	Yes	Yes
Hot Aisle Containment Compatible	Yes	Yes	Yes	Yes
Rack Aisle Containment Compatible	Yes	Yes	Yes	Yes
Refrigerant Type	R410A	R410A	R410A	R410A
Network Management Card	Included	Included	Included	Included
Standard Filter Type	0.5–in. washable	0.5–in. washable	0.5–in. washable	0.5–in. washable
Standard Filter Efficiency	MERV 1	MERV 1	MERV 1	MERV 1
Optional Filter Type	2–in. pleated	2–in. pleated	2–in. pleated	2–in. pleated
Optional Filter Efficiency	MERV 8	MERV 8	MERV 8	MERV 8
Drainage System	Condensate pump	Condensate pump	Gravity drain	Gravity drain
Number of Rack Inlet Temperature Sensors	1	1	1	1
Piping Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Electrical Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Cable Type Water Detector	Optional	Optional	Optional	Optional

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Model	ACRD306	ACRD306G	ACRD307	ACRD3067G
Input Voltage	100–120 V / 200–240 V	100–120 V / 200–240 V	100–120 V / 200–240 V	100–120 V / 200–240 V
Phases	1	1	1	1
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)
Cabinet Height – mm (in.)	1991 (78.39)	1991 (78.39)	1991 (78.39)	1991 (78.39)
Cabinet Depth – mm (in.)	1087 (42.80)	1087 (42.80)	1087 (42.80)	1087 (42.80)
Net Weight – kg (lb)	160 (352.7)	160 (352.7)	160 (352.7)	160 (352.7)
Power Connection Type	Hardwired	Hardwired	Hardwired	Hardwired
Full Load Amps (FLA)*	16.5–13.8 / 8.0–6.7	16.5–13.8 / 8.0–6.7	16.5–13.8 / 8.0–6.7	16.5–13.8 / 8.0–6.7
Minimum Circuit Ampacity (MCA)*	20.3 / 9.3	20.3 / 9.3	20.3 / 9.3	20.3 / 9.3
Maximum Overcurrent Protection (MOP)*	25.0 / 15.0	25.0 / 15.0	25.0 / 15.0	25.0 / 15.0
Features/Options				
Fan Type	Electronically commutated	Electronically commutated	Electronically commutated	Electronically commutated
Maximum Airflow – l/s (CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)	5437 m3/h (3200 CFM)
Fan Control	Variable speed	Variable speed	Variable speed	Variable speed
Number of Fans	8	8	8	8
Hot Swappable Fans	Yes	Yes	Yes	Yes
Hot Aisle Containment Compatible	Yes	Yes	Yes	Yes
Rack Aisle Containment Compatible	Yes	Yes	Yes	Yes
Refrigerant Type	R410A	R410A	R410A	R410A
Network Management Card	Included	Included	Included	Included
Standard Filter Type	0.5–in. washable	0.5–in. washable	0.5–in. washable	0.5–in. washable
Standard Filter Efficiency	MERV 1	MERV 1	MERV 1	MERV 1
Optional Filter Type	2–in. pleated	2–in. pleated	2–in. pleated	2–in. pleated
Optional Filter Efficiency	MERV 8	MERV 8	MERV 8	MERV 8
Drainage System	Condensate pump	Gravity drain	Condensate pump	Gravity drain
Number of Rack Inlet Temperature Sensors	1	1	1	1
Piping Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Electrical Connections	Top or bottom	Top or bottom	Top or bottom	Top or bottom
Cable Type Water Detector	Optional	Optional	Optional	Optional

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Outdoor Units

Model	ACCU30301	ACCU30302	ACCU30001	ACCU30002
Input Voltage	380–415 V	380–415 V	200–240 V	200–240 V
Phases	3	3	3	3
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Cabinet Height – mm (in.)	1555 (61.2)	1555 (61.2)	1600 (63.0)	1600 (63.0)
Cabinet Depth – mm (in.)	1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Net Weight – kg (lb)	267 (588.6)	272 (600.0)	267 (588.6)	272 (600.0)
Power Connection Type	Hardwired	Hardwired	Hardwired	Hardwired
Full Load Amps (FLA)*	15.8	15.8	N/A	N/A
Minimum Circuit Ampacity (MCA)*	N/A	N/A	50.05	50.05
Maximum Overcurrent Protection (MOP)*	N/A	N/A	80	80
Power Connection Quantity	1	2	1	2
Features/Options				
Fan Type	Electronically commutated	Electronically commutated	Electronically commutated	Electronically commutated
Fan Control	RS485 Modbus-RTU	RS485 Modbus-RTU	RS485 Modbus-RTU	RS485 Modbus-RTU
Number of Fans	1	1	1	1
Hot Swappable Fans	No	No	No	No
Refrigerant Type	R410A	R410A	R410A	R410A
Compressor Type	Variable speed	Variable speed	Variable speed	Variable speed

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Model	ACCU30201	ACCU30202	ACCU30101	ACCU30102
Input Voltage	380–415 V	380–415 V	460–480 V	460–480 V
Phases	3	3	3	3
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Cabinet Width – mm (in.)	1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Cabinet Height – mm (in.)	1555 (61.2)	1555 (61.2)	1555 (61.2)	1555 (61.2)
Cabinet Depth – mm (in.)	1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Net Weight – kg (lb)	273 (601.9)	278 (612.9)	267 (588.6)	272 (600.0)
Power Connection Type	Hardwired	Hardwired	Hardwired	Hardwired
Full Load Amps (FLA)*	N/A	N/A	15.8	15.8
Minimum Circuit Ampacity (MCA)*	23.1	23.1	N/A	N/A
Maximum Overcurrent Protection (MOP)*	40	40	N/A	N/A
Power Connection Quantity	1	2	1	2
Features/Options				
Fan Type	Electronically commutated	Electronically commutated	Electronically commutated	Electronically commutated
Fan Control	RS485 Modbus-RTU	RS485 Modbus-RTU	RS485 Modbus-RTU	RS485 Modbus-RTU
Number of Fans	1	1	1	1
Hot Swappable Fans	No	No	No	No
Refrigerant Type	R410A	R410A	R410A	R410A
Compressor Type	Variable speed	Variable speed	Variable speed	Variable speed

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990-91209A-001