


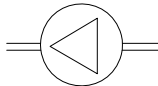
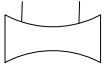


InRow RC,300mm,Chilled Water Air Conditioners Drawing Guide

Sheet No.	Component /Detail	Description
1	Draw ing Guide	InRow RC, 300mm, Chilled Water Air Conditioners, Draw ing Guide
2	Isometric View (External)	InRow RC, 300mm, Chilled Water, Isometric View (External)
3	General arrangement	InRow RC, 300mm, Chilled Water, Main Mechanical
4	Top and Bottom View s	InRow RC, 300mm, Chilled Water, Top and Bottom View s
5	Anchoring Details	InRow RC, 300mm, Chilled Water, Anchoring Details
6	Isometric View (Internal)	InRow RC, 300mm, Chilled Water, Isometric View (Internal)
7	Internal View s	InRow RC, 300mm, Chilled Water, Internal View s
8	Top & Bottom Piping Details	InRow RC, 300mm, Chilled Water, Internal Connections
9	Piping Connections	InRow RC, 300mm, Chilled Water, Piping Connections
10	Piping Diagram	InRow RC, 300mm, Chilled Water, Piping Diagram
11	Internal Piping	InRow RC, 300mm, Chilled Water, Internal Piping
12	Power Cord Connection	InRow RC, 300mm, Chilled Water, Electrical Data
13	Control Connections	InRow RC, 300mm, Chilled Water, Control User Interface
14	Interface Connections	InRow RC, 300mm, Chilled Water, Control User Interface

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SHUT OFF VALVE		FLOW METER
	Y-STRAINER		CONDENSATE PUMP
	CURRENT SETTER		

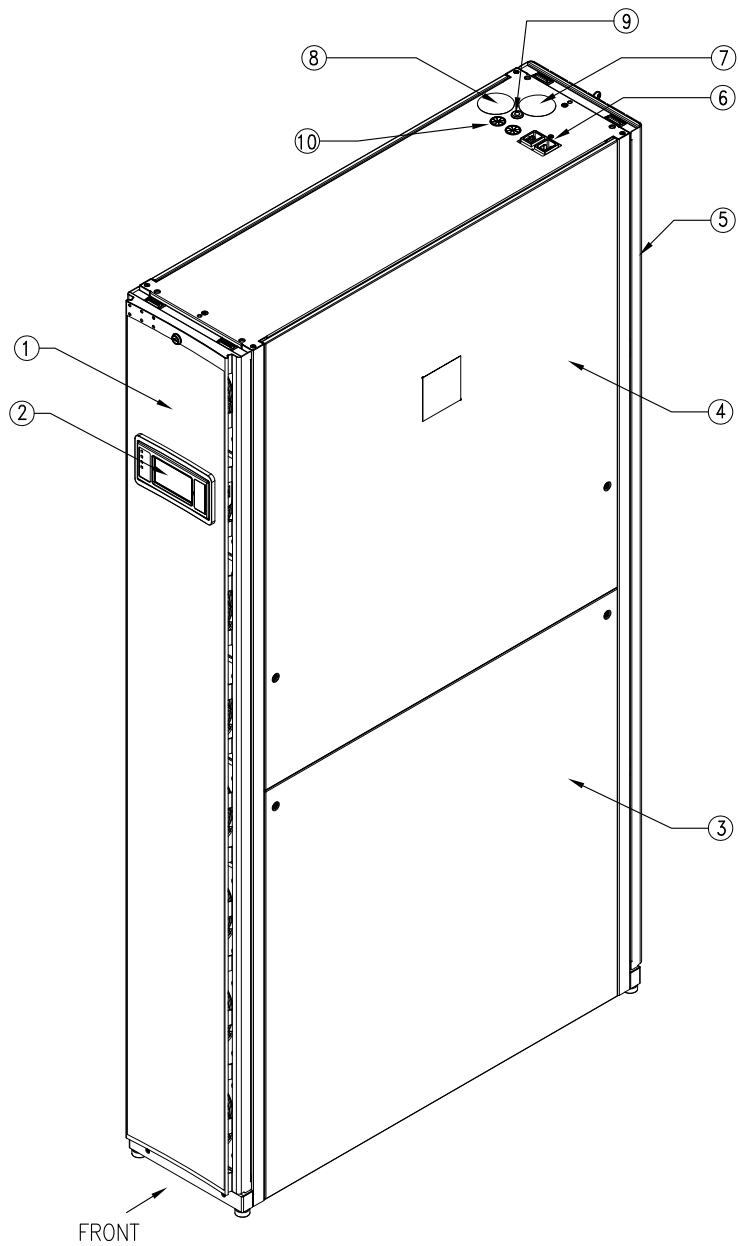
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TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
DRAWING GUIDE

PROJECT: DRAWINGS SHEET 1 OF 14

DWG NO:	ACRC301S	REV.	0
DRAWN:	JAYAPRAKASH	DATE:	26-FEB-14
ENGINEER:	FAN GAO	DATE:	10-MAR-14
APPROVED:	C CUMMISKEY/N SCHWEISSUTH	DATE:	10-MAR-14
		PROJECTION:	FIRST ANGLE



ISOMETRIC VIEW
(External)

- ① Perforated Front Panel
- ② Display Interface
- ③ Lower Side Panel
- ④ Upper Side Panel
- ⑤ Perforated Rear Panel
- ⑥ Power Cord connections, Top
- ⑦ Top Return (Outlet)
- ⑧ Top Supply (Inlet)
- ⑨ Condensate line
- ⑩ Low voltage input wiring

- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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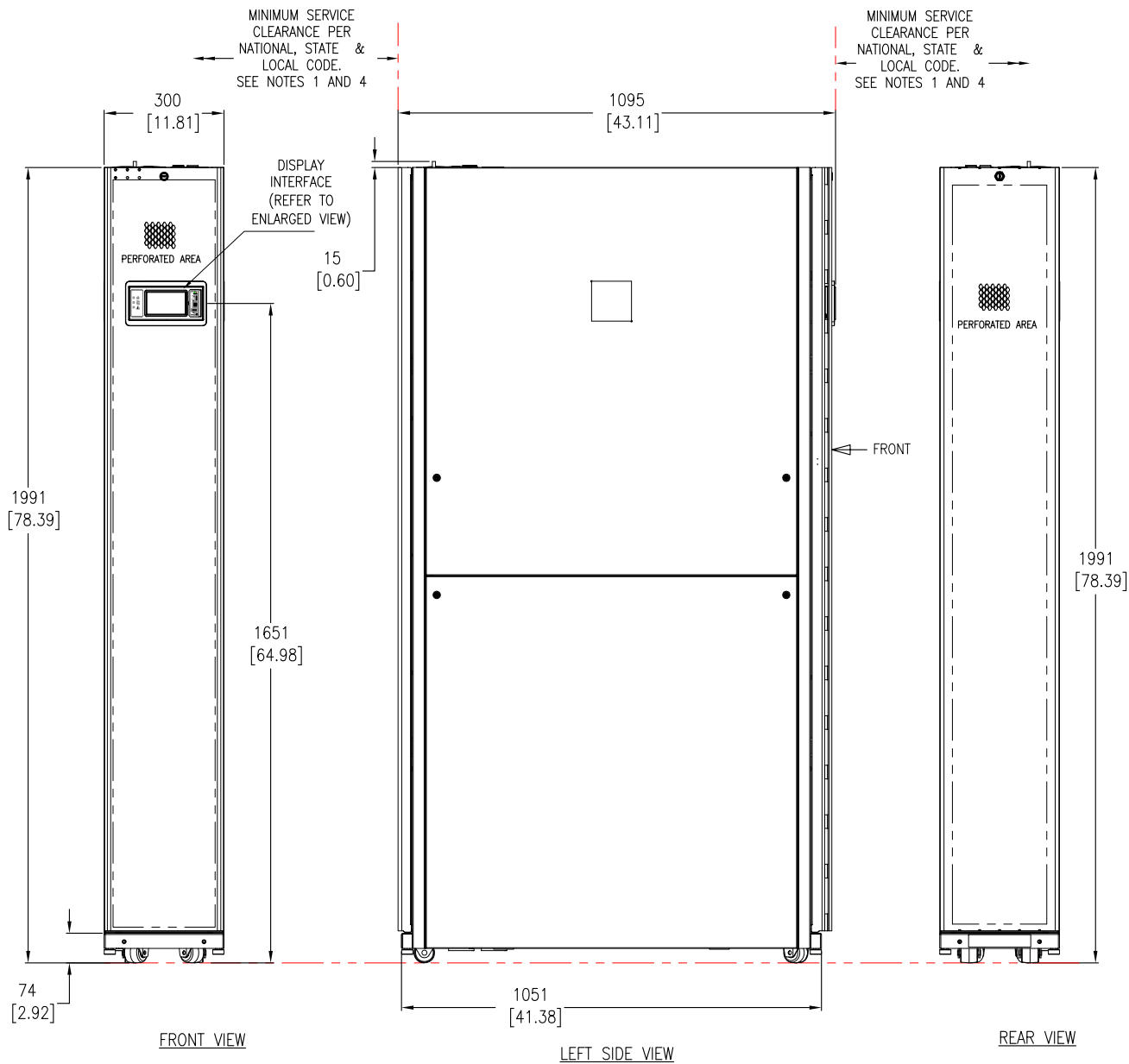
TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
ISOMETRIC VIEW (EXTERNAL)

DWG NO: ACRC301S REV. 0

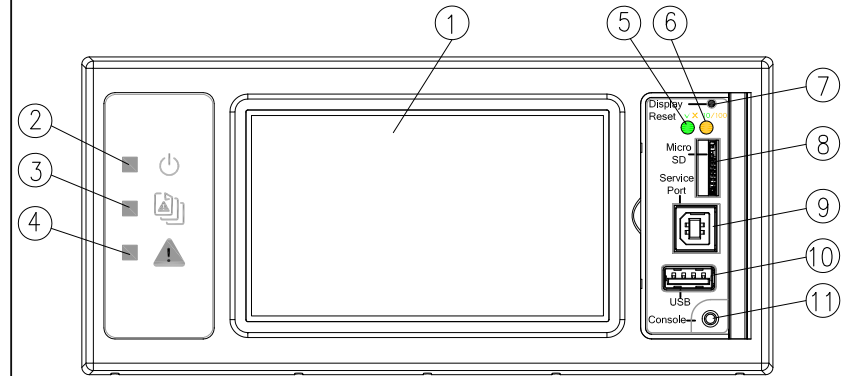
DRAWN:	JAYAPRAKASH	26-FEB-14	FIRST ANGLE PROJECTION
ENGINEER:	FAN GAO	10-MAR-14	

PROJECT: DRAWINGS SHEET 2 OF 14

APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-MAR-14



DISPLAY INTERFACE (ENLARGED VIEW)

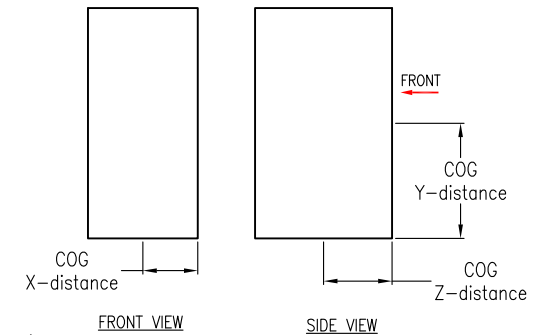


ITEM	DESCRIPTION	FUNCTION
1	LCD Display	4.3 Inch Touch Screen Color Display.
2	Power LED	The Unit is powered when the LED is illuminated. Unit is firmware is updating when LED is blinking
3	Check Log LED	When this LED is illuminated, a new entry has been made to the event log.
4	Alarm LED	Displays current alarm condition of unit.
5	Status LED	Displays current network management card status.
6	Link-RX/TX (10/100) LED	Displays current NETWORK link status.
7	Display Reset button	Resets the Display microprocessor. This has no effect on the air conditioner controller.
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	Connects the display to a local computer to configure initial network settings or access the command line interface (CLI).

NOTES:

- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
- A MINIMUM CLEARANCE OF 1200mm [48 Inches] IN FRONT AND 914mm [36 Inches] IN REAR OF THE UNIT IS REQUIRED FOR SERVICE.
- TOP OR BOTTOM PIPING CONFIGURATIONS.
- NET WEIGHT OF UNIT IS 184 kg [406 lb].
OPERATING WEIGHT (INCLUDES WEIGHT OF WATER) IS 192 kg [423 lb].
VOLUME OF FLUID IN UNIT IS 7.72 LITERS [2.04 gal], EXCLUDES PIPING BEYOND INTERNAL UNIONS.
- FLOOR LOADING: 585 kg/meter² [120 lb/ft²].
- THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.

COG DETAILS



Center of Gravity in mm [Inches]		
X-Distance	Y-Distance	Z-Distance
140 [5.52]	1015 [39.96]	557 [21.93]

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Schneider Electric

TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
GENERAL ARRANGEMENT

DWG NO: **ACRC301S**

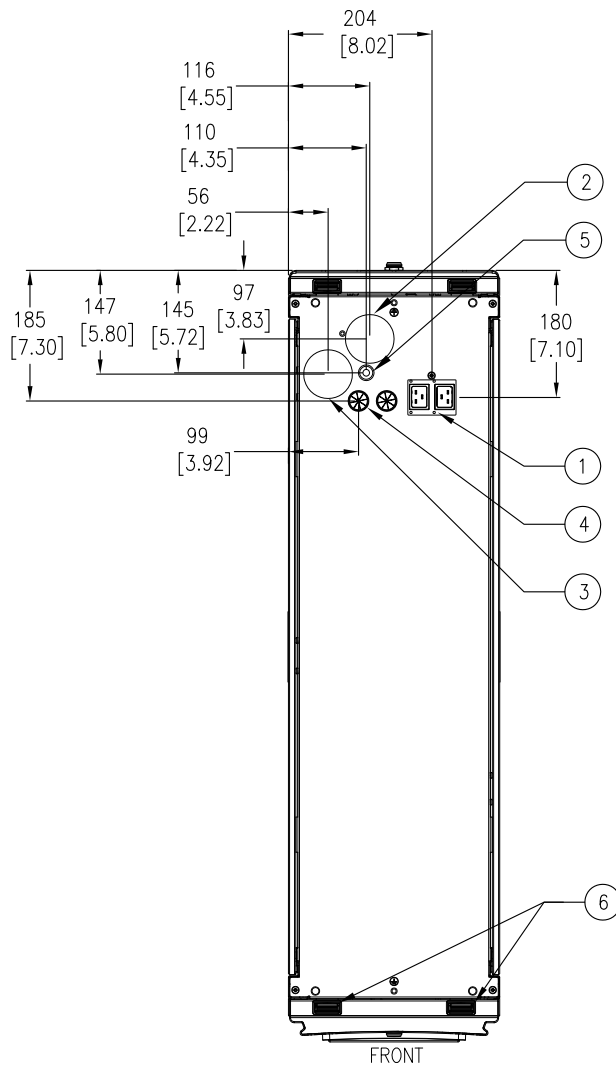
REV. **2**

DRAWN: JAYAPRAKASH 10-FEB-15
ENGINEER: FAN GAO 10-FEB-15

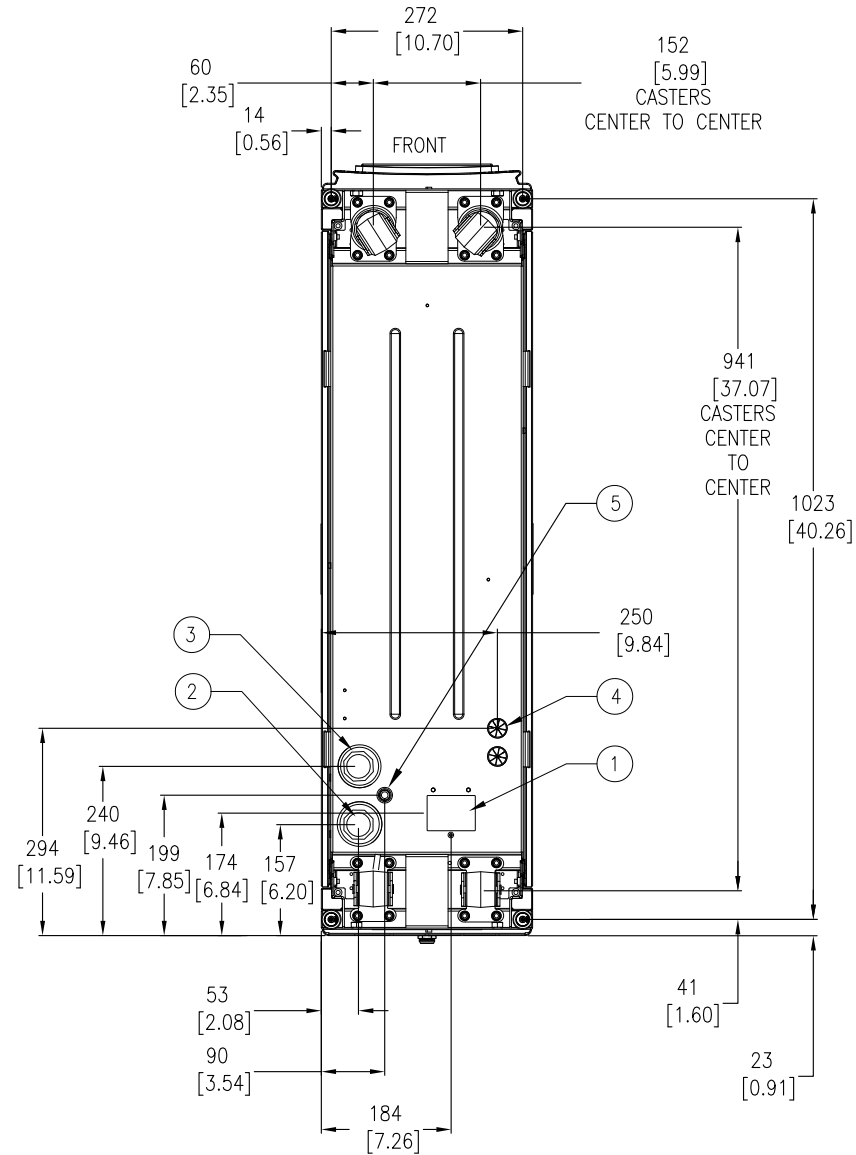
FIRST ANGLE PROJECTION

PROJECT: DRAWINGS SHEET 3 OF 14

APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-FEB-15



TOP VIEW
(PIPING & POWER FEED LOCATIONS
FOR TOP PIPING AND POWER)



BOTTOM VIEW- LOOKING UP
(PIPING & POWER FEED LOCATIONS
FOR BOTTOM PIPING AND POWER)

- ① POWER CONNECTIONS
- ② RETURN (OUTLET) CONNECTIONS
(UNIT IS SUPPLIED WITH 1" FEMALE NPT)
- ③ SUPPLY (INLET) CONNECTIONS
(UNIT IS SUPPLIED WITH 1" FEMALE NPT)
- ④ LOW VOLTAGE INPUT WIRING
- ⑤ CONDENSATE LINE - 0.25" ID/0.38" OD
- ⑥ DOOR LATCHES (FRONT & REAR DOOR)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].

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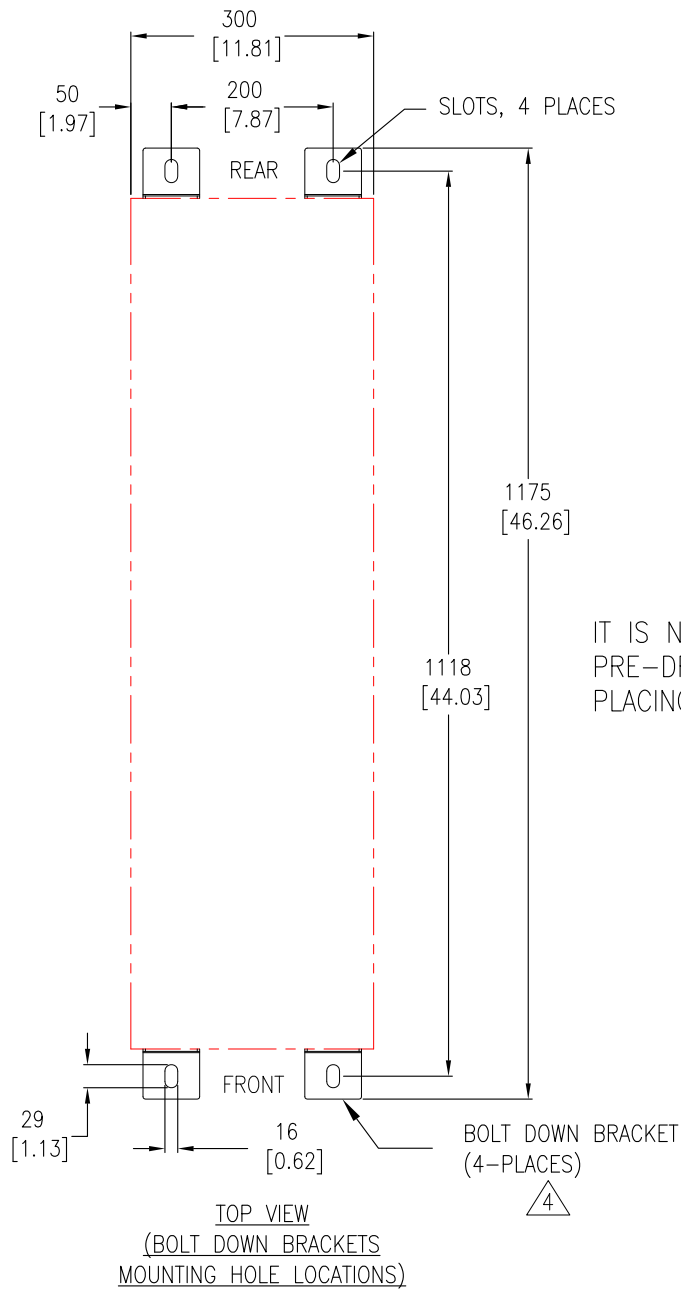


TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
TOP & BOTTOM VIEWS

DWG NO:	ACRC301S	REV:	0
DRAWN:	JAYAPRAKASH	DATE:	26-FEB-14
ENGINEER:	FAN GAO	DATE:	10-MAR-14
APPROVED:	C CUMMISKEY/N SCHWEISSUTH	DATE:	10-MAR-14

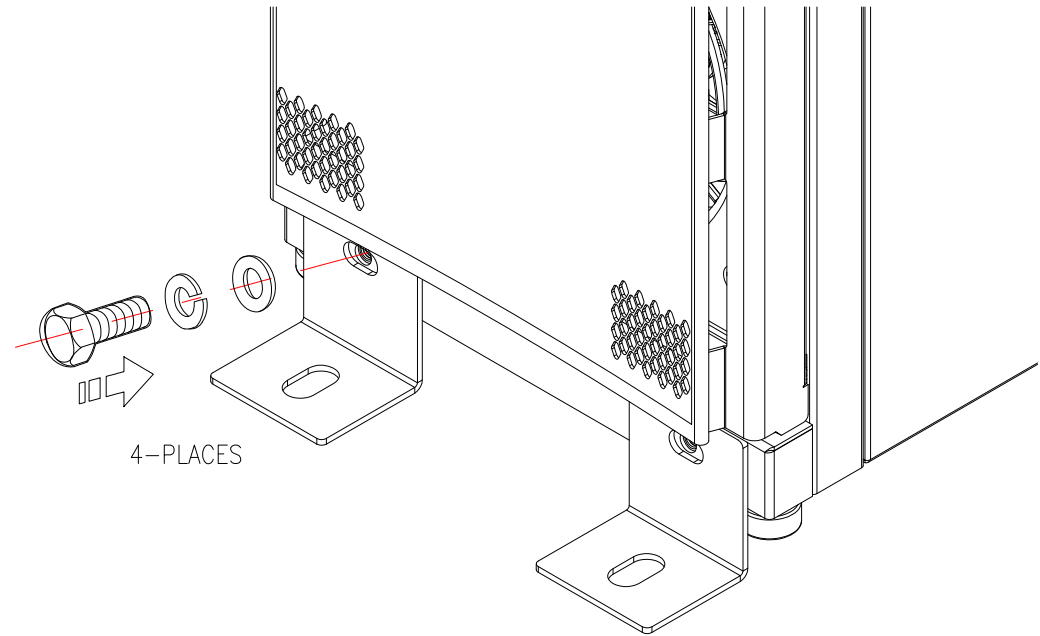
PROJECT: DRAWINGS SHEET 4 OF 14

FIRST ANGLE PROJECTION



IT IS NOT RECOMMENDED TO PRE-DRILL HOLES BEFORE PLACING RC UNITS IN ROW.

STABILIZING THE InRow RC:
TO PREVENT THE ENCLOSURE FROM MOVING FROM ITS FINAL LOCATION (IF NOT JOINED WITH ANOTHER COMPONENT USE AR7701 (BOLT-DOWN KIT) ATTACH THE BRACKETS TO THE UNIT AS SHOWN. USE CODE COMPLIANT FASTENERS TO SECURE THE UNIT TO THE FLOOR.



NOTE:
1. RECOMMENDED TORQUE IS 9-11.3 N-m [80-100 LBS-INCHES]

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
- △4. BOLT-DOWN KIT (SKU#AR7701) IS OPTIONAL AND HAS TO BE ORDERED SEPARATELY.
5. REFER TO "INFRASTRUXURE InRow RC SEISMIC INSTALLATION GUIDE" FOR SEISMIC ANCHORING GUIDELINES.

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TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
ANCHORING DETAILS

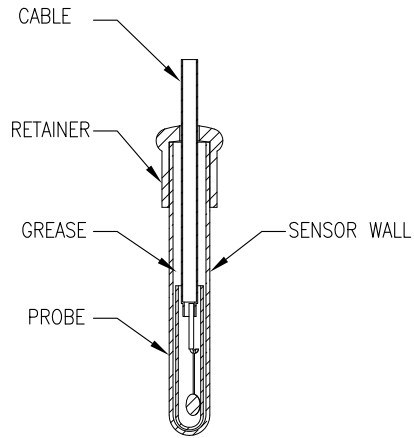
DWG NO: ACRC301S REV. 0

DRAWN: JAYAPRAKASH 26-FEB-14 FIRST ANGLE PROJECTION
ENGINEER: FAN GAO 10-MAR-14

PROJECT: DRAWINGS SHEET 5 OF 14

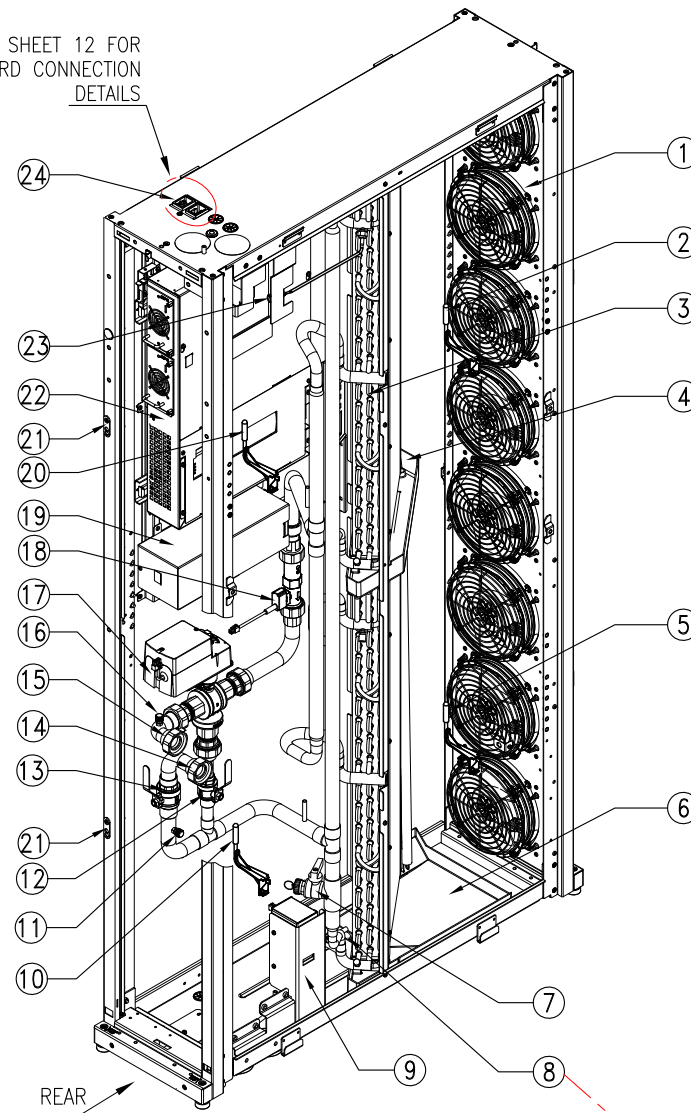
APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-MAR-14

FLUID TEMPERATURE SENSOR

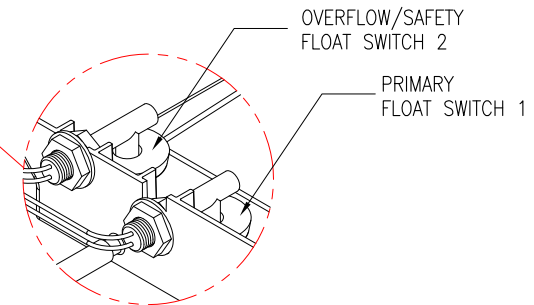


SECTION VIEW

REFER TO SHEET 12 FOR
POWER CORD CONNECTION
DETAILS



- ① Fan Module
- ② Supply Air Temperature Sensor, Top
- ③ Coil
- ④ Condensate drain Pan, Top
- ⑤ Supply Air Temperature Sensor, Bottom
- ⑥ Condensate drain Pan, Bottom
- ⑦ Drain Valve
- ⑧ Condensate drain Pan Float Switch
- ⑨ Condensate Pump
- ⑩ Return Air Temperature Sensor, Bottom
- ⑪ Schrader Valve (Inlet Water Pressure Test)
- ⑫ 2-Way (3/4") Bypass Shut-off Valve
- ⑬ Inlet Shut-off Valve
- ⑭ Pipe Connection, Water Inlet
- ⑮ Pipe Connection, Water Outlet
- ⑯ Schrader Valve (Outlet Water Pressure Test)
- ⑰ 3-Way Actuator valve
- ⑱ Flow meter
- ⑲ Auto-Transfer Switch (ATS) Box
- ⑳ Return Air Temperature Sensor
- ㉑ Baying Bracket
- ㉒ Electrical Box
- ㉓ Schrader Valve (Air Purging)
- ㉔ Power Supply (Power Cord Connections, Top)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. SOME MECHANICAL DETAILS ARE REMOVED FOR THE PURPOSE OF CLARITY.

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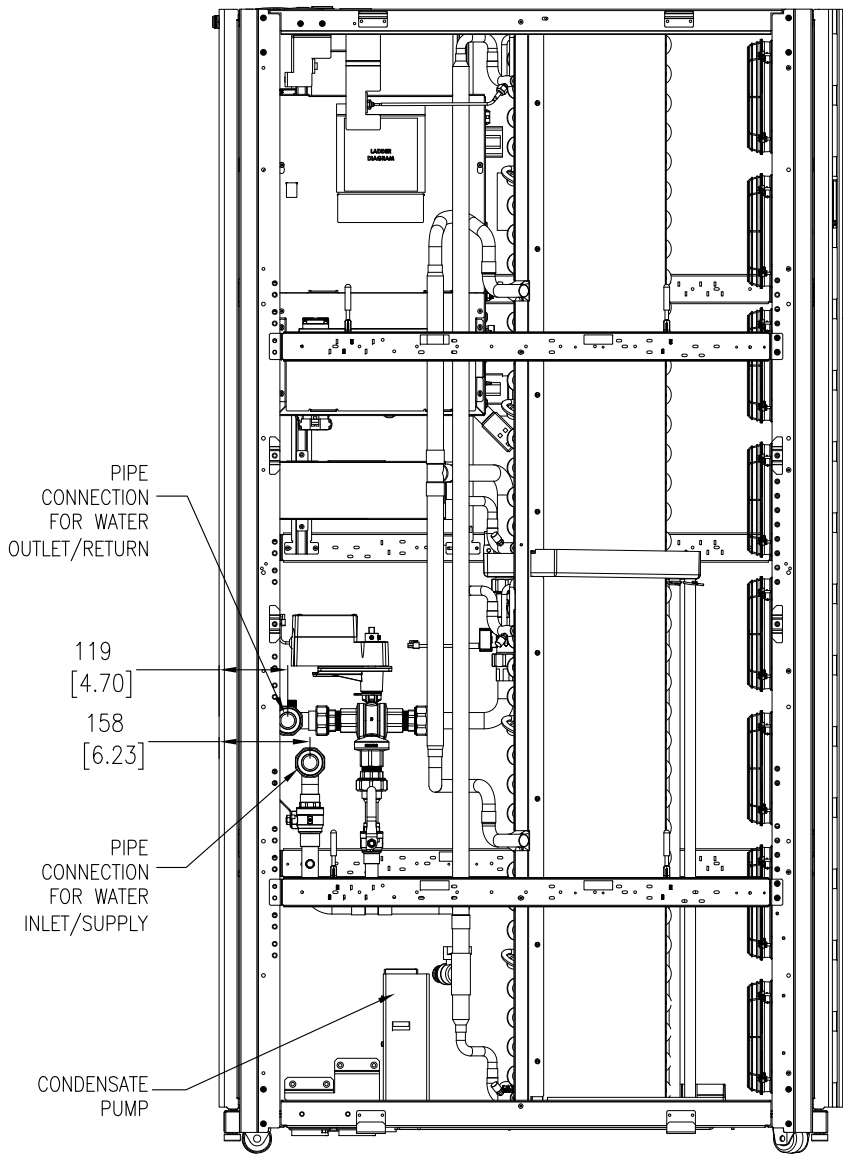
Schneider Electric

TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
ISOMETRIC VIEW(INTERNAL)

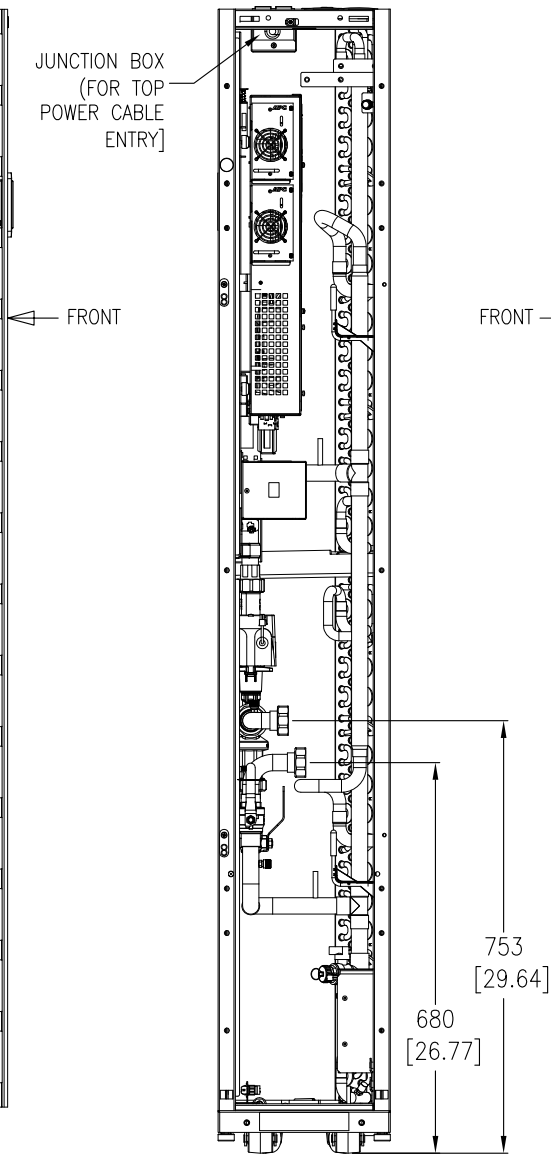
PROJECT: DRAWINGS SHEET 6 OF 14

DWG NO:	ACRC301S	REV:	0
DRAWN:	JAYAPRAKASH	DATE:	26-FEB-14
ENGINEER:	FAN GAO	DATE:	10-MAR-14
APPROVED:	C CUMMISKEY/N SCHWEISSUTH	DATE:	10-MAR-14

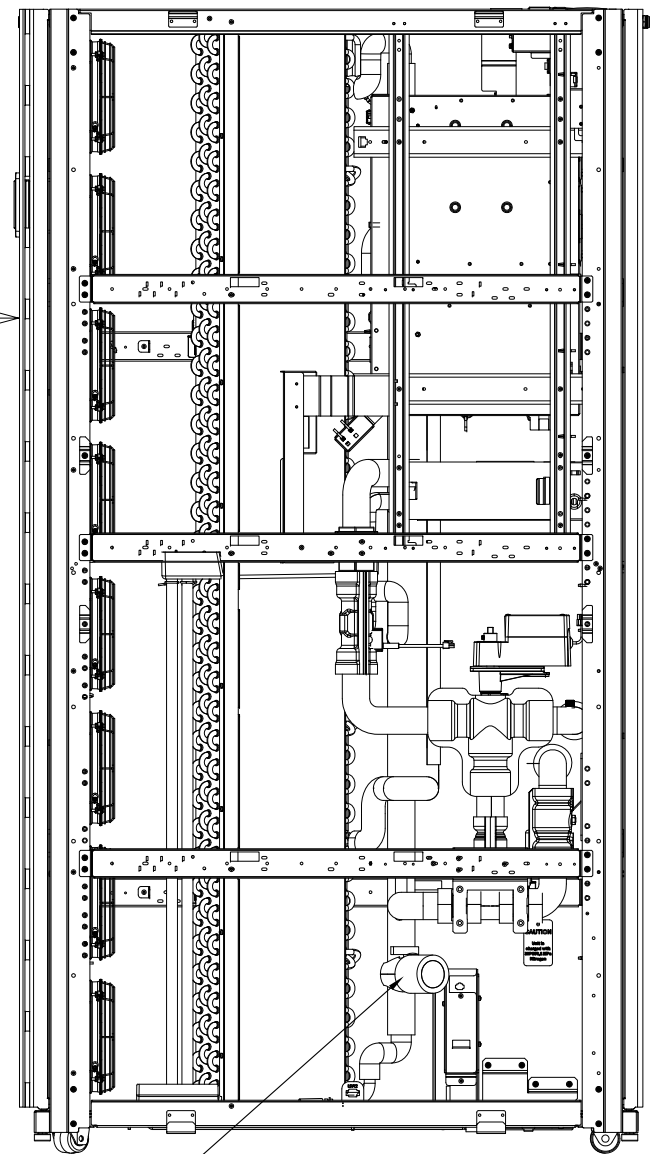
FIRST ANGLE PROJECTION



RIGHT SIDE VIEW
PIPING CONNECTION LOCATIONS
(SIDE PANELS AND PIPING INSULATIONS REMOVED)



REAR VIEW
(REAR DOOR, FILTERS AND PIPING INSULATION REMOVED)



FLEXIBLE ELASTOMERIC CLOSED CELL PIPE INSULATION
THICKNESS: 9.52mm [3/8"]
THERMAL CONDUCTIVITY: 0.039 W/m-K @ 24°C/
0.27BTU-IN/HR-FT²-°F @ 75F

LEFT SIDE VIEW
(SIDE PANELS REMOVED)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
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Schneider Electric

TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V, 50/60Hz, NEMA L5-20P/IEC 309-16A
INTERNAL VIEWS

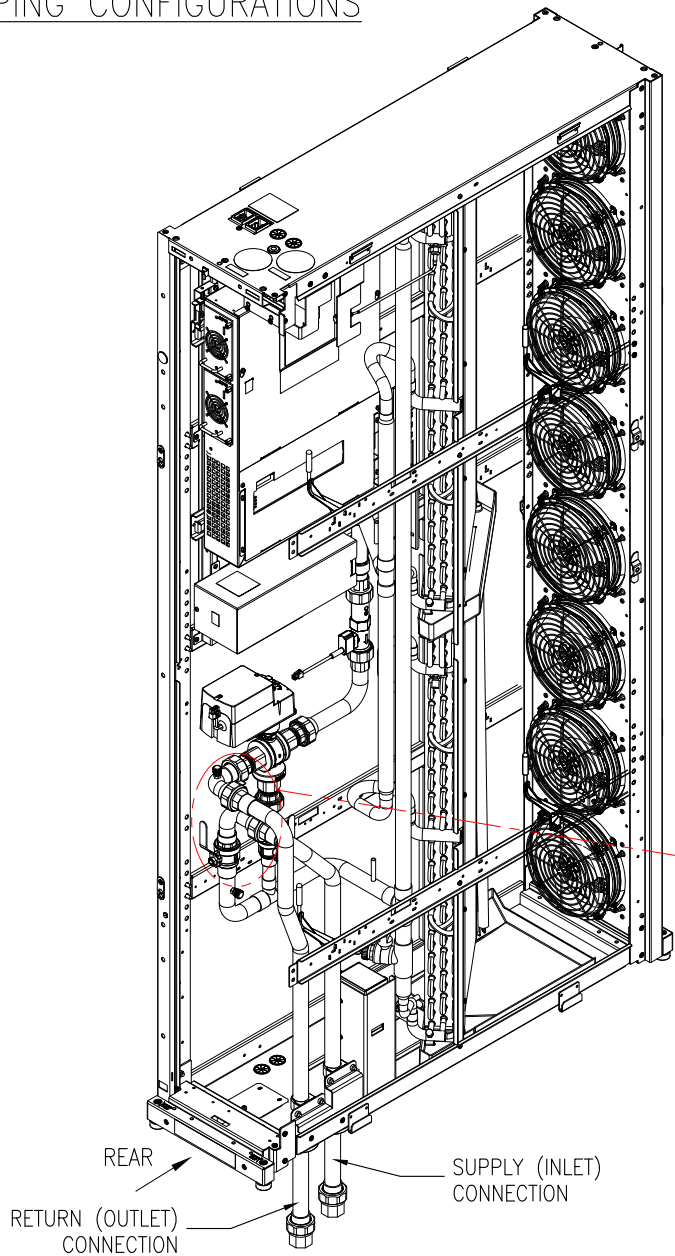
PROJECT: DRAWINGS SHEET 7 OF 14

DWG NO: **ACRC301S** REV. **0**
DRAWN: JAYAPRAKASH 26-FEB-14
ENGINEER: FAN GAO 10-MAR-14

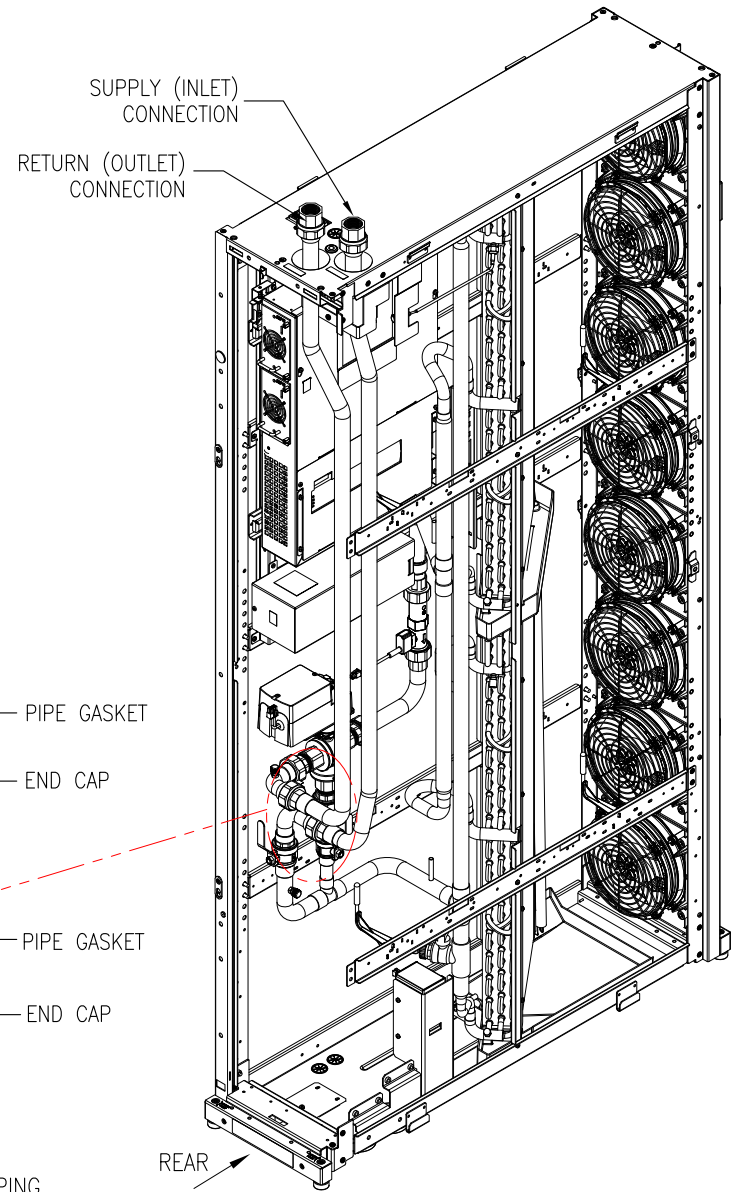
APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-MAR-14

FIRST ANGLE PROJECTION

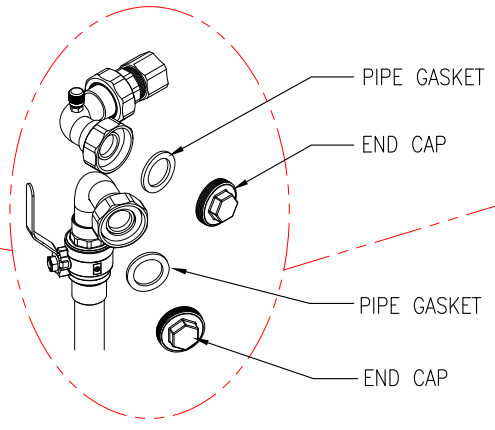
PIPING CONFIGURATIONS



BOTTOM PIPING CONFIGURATION



TOP PIPING CONFIGURATION



SUPPLY AND RETURN PIPING (EXPLODED VIEW)

PREPARATION FOR SUPPLY AND RETURN PIPING

1. REMOVE END CAP AND SEAL DISK.
2. INSTALL THE PROVIDED PIPE GASKET AND PIPING KIT. (INSTALL THE INLET PIPE FIRST)
3. TIGHTEN CONNECTIONS TO 40N-m [29lbs/ft]

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. SOME MECHANICAL DETAILS ARE REMOVED FOR THE PURPOSE OF CLARITY.
4. BOTTOM PIPING IS DEFAULT, USE UPPER PIPING KIT - ACAC10032 FOR TOP PIPING.

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TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V, 50/60Hz, NEMA L5-20P/IEC 309-16A
TOP AND BOTTOM PIPING DETAILS

DWG NO:	ACRC301S	REV:	0
DRAWN:	JAYAPRAKASH		26-FEB-14
ENGINEER:	FAN GAO		10-MAR-14
APPROVED:	C CUMMISKEY/N SCHWEISSUTH		10-MAR-14

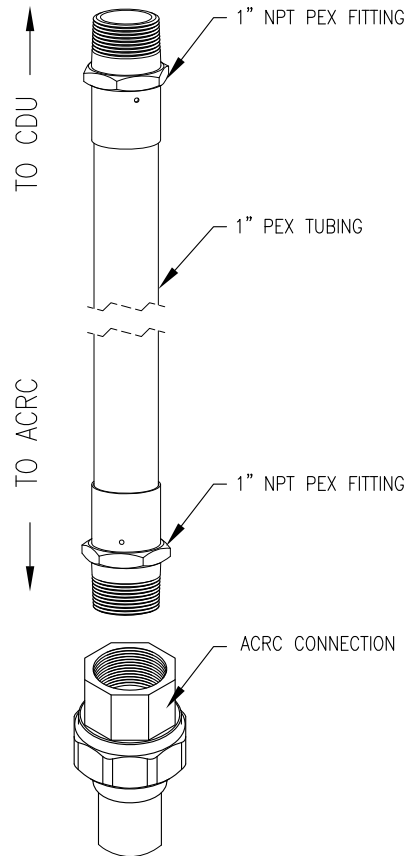
PROJECT: DRAWINGS SHEET 8 OF 14

FRONT ANGLE PROJECTION

PEX TO CDU CONNECTION

INSTRUCTIONS:

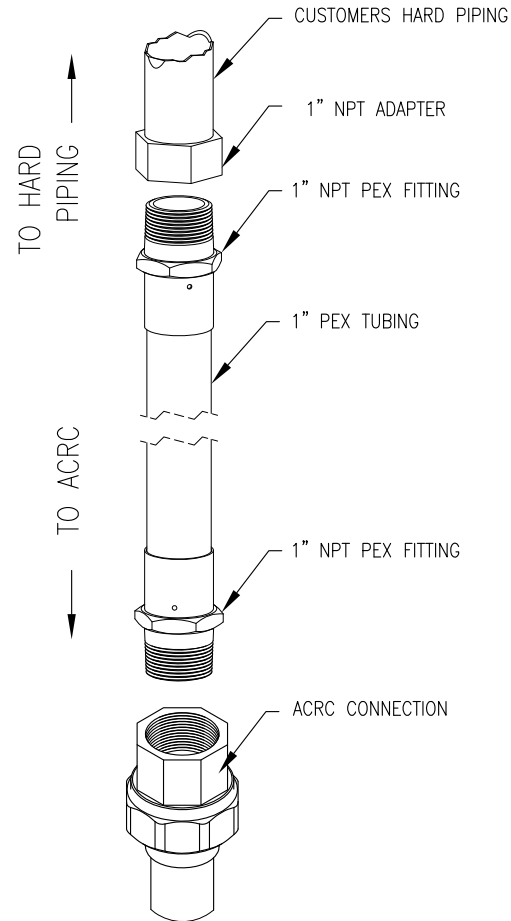
- CONNECT DIRECTLY TO CDU UNION FITTING
- MAXIMUM PRESSURE RATING—
1034kPa [150PSIG] @ 67°C [153°F]



PEX TO HARD PIPE CONNECTION

INSTRUCTIONS:

- THREAD 1" PEX NPT FITTING INTO HARD PIPING ADAPTER FIRST.
- INSTALL PEX TUBING.
- MAXIMUM PRESSURE RATING 1034kPa [150PSIG] @ 67°C [153°F]

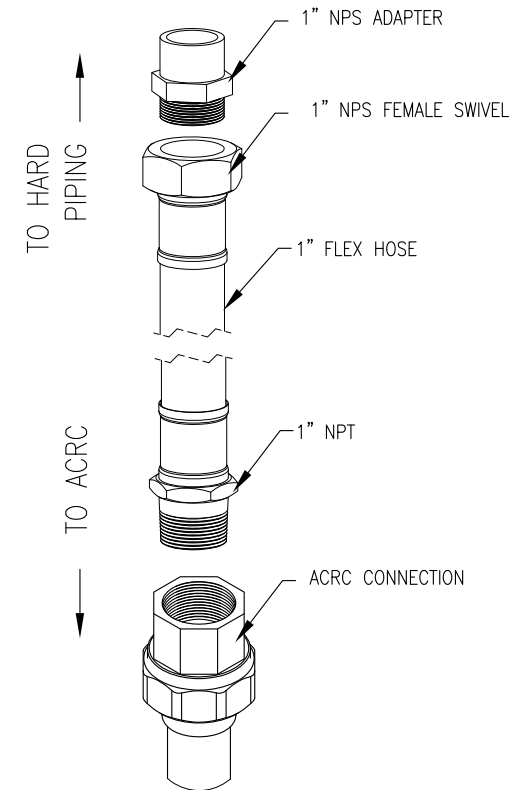


FLEX HOSE TO HARD PIPE CONNECTION

(RECOMMENDED FOR HARD PIPE APPLICATIONS)

INSTRUCTIONS:

- FIELD SUPPLIED 1" HOSE RATED 2068kPa [300PSIG]
- FLEX HOSE KIT: APC SKU ACAC10011 OR EQUIVALENT



- NOTES:
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - PEX AND FLEX HOSES ARE OPTIONAL AND HAVE TO BE ORDERED BY CUSTOMER.
 - THE MINIMUM BEND RADIUS OF THE PEX PIPING IS 254MM [10 INCHES].

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Schneider Electric

TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
PIPING CONNECTIONS

DWG NO: **ACRC301S** REV. **3**

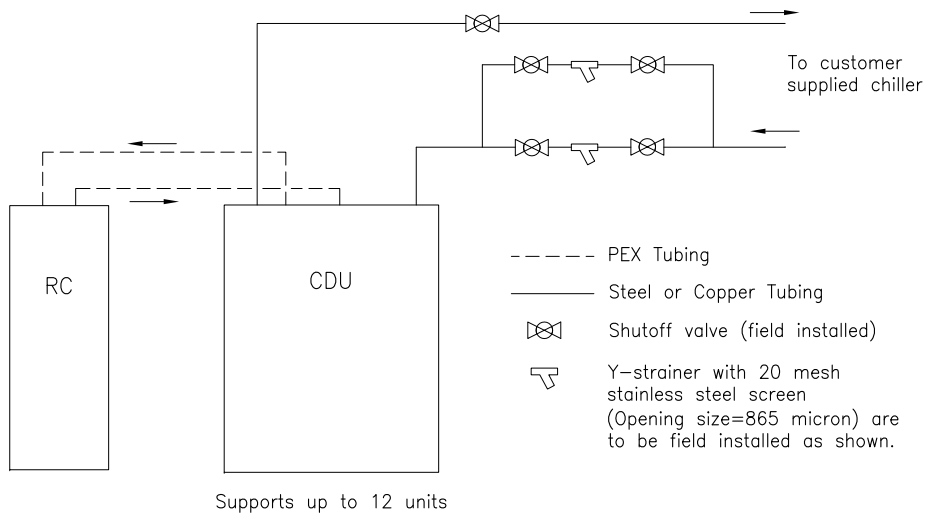
DRAWN: JAYAPRAKASH 16-MAR-15
ENGINEER: FAN GAO 16-MAR-15

APPROVED: C CUMMISKEY/N SCHWEISSUTH 16-MAR-15

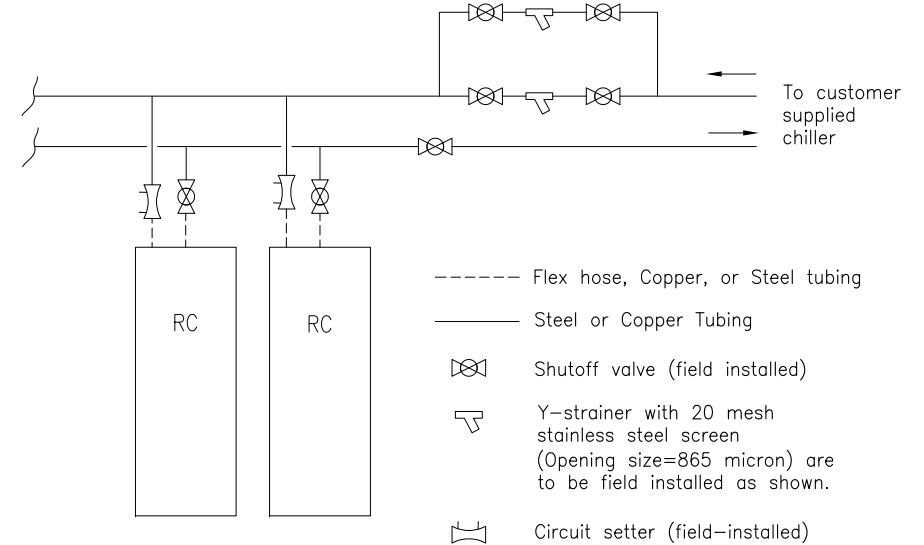
PROJECT: DRAWINGS SHEET 9 OF 14

FIRST ANGLE PROJECTION

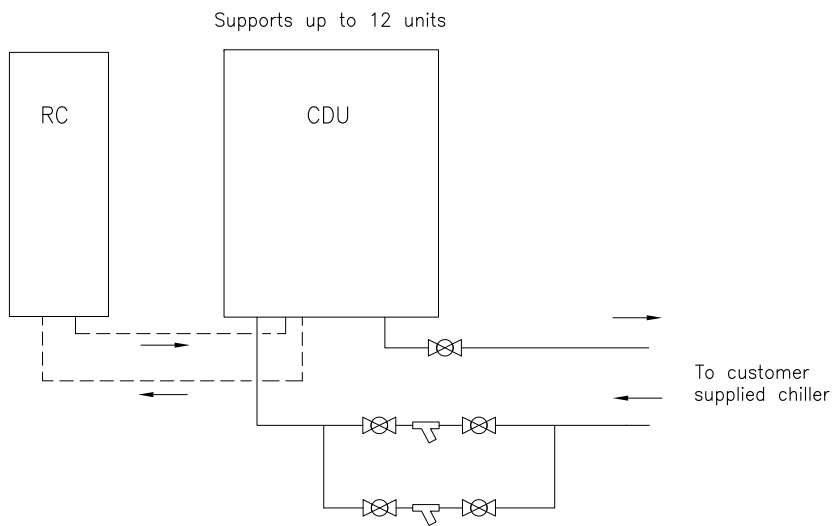
TOP PIPING WITH CDU



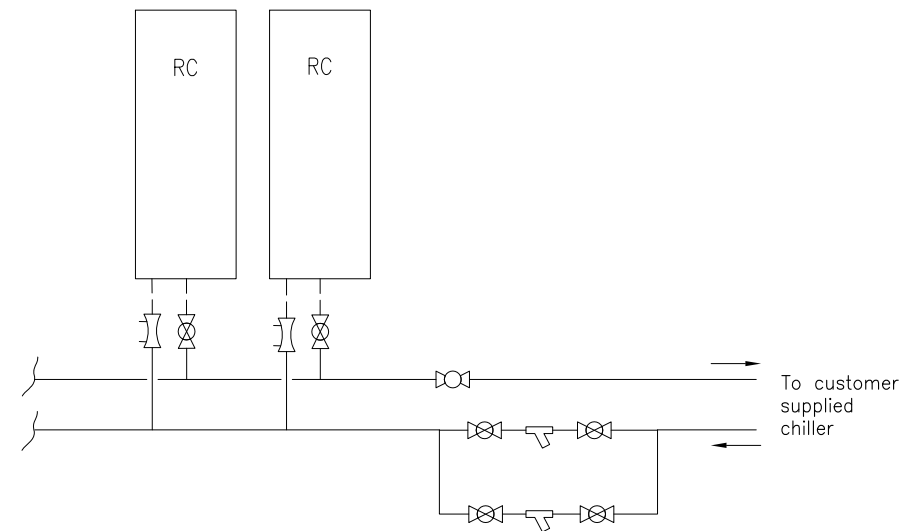
TOP PIPING WITHOUT CDU



BOTTOM PIPING WITH CDU



BOTTOM PIPING WITHOUT CDU



- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ILLUSTRATIONS SHOWS PIPING PROVIDED BY OTHERS.

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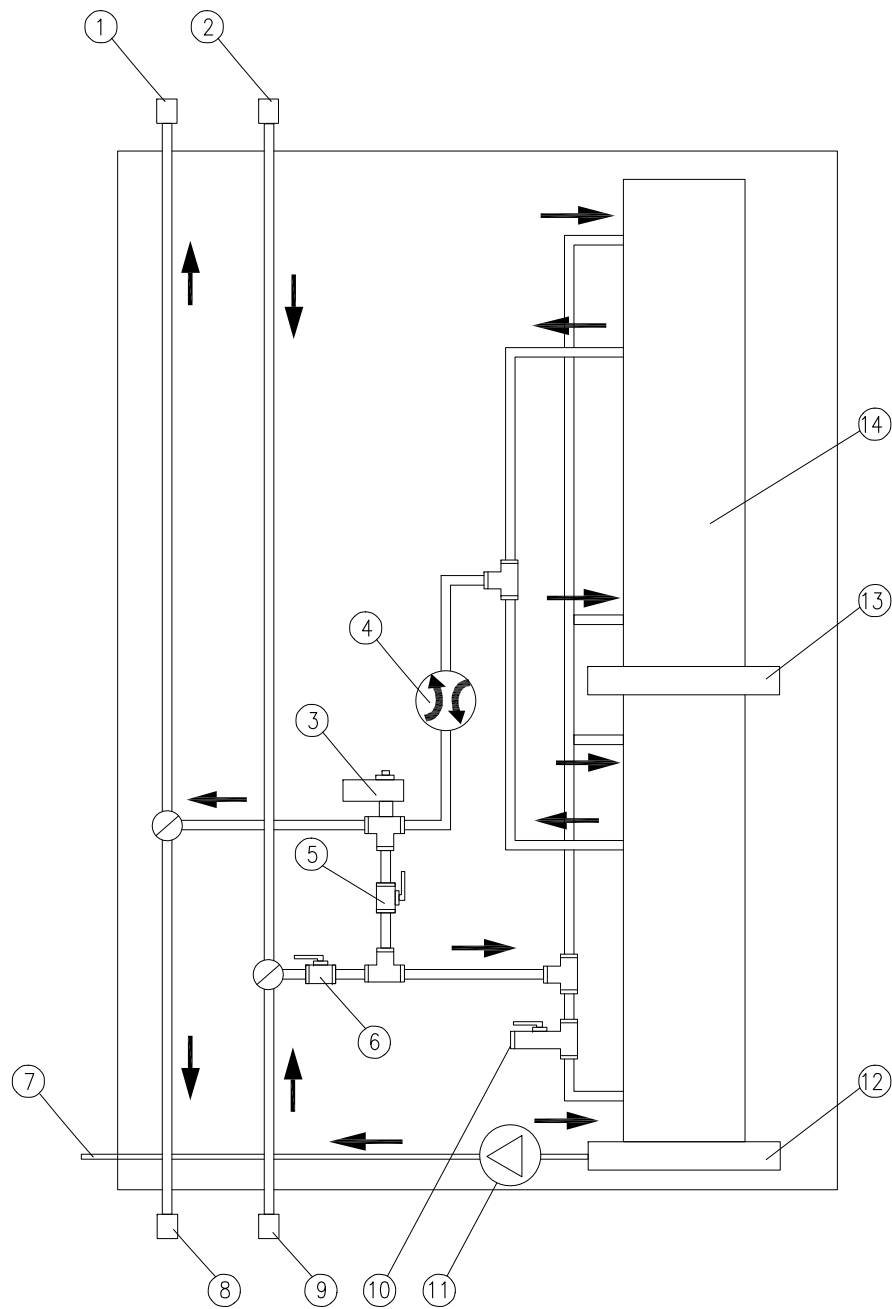


TITLE:
 InRow Chilled Water Air Conditioners
 InRow RC, 300mm, Chilled Water
 100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
 PIPING DIAGRAM

DWG NO:	ACRC301S	REV:	0
DRAWN:	JAYAPRAKASH	DATE:	26-FEB-14
ENGINEER:	FAN GAO	DATE:	10-MAR-14
APPROVED:	C CUMMISKEY/N SCHWEISSUTH	DATE:	10-MAR-14

PROJECT: DRAWINGS SHEET 10 OF 14

FIRST ANGLE PROJECTION



- ① OUTLET WATER UNION (Top piping option)
- ② INLET WATER UNION (Top piping option)
- ③ 3-WAY ACTUATED CONTROL VALVE-1”
- ④ FLOW METER
- ⑤ BYPASS SHUTOFF BALL VALVE-3/4”
- ⑥ INLET SHUTOFF VALVE-1”
- ⑦ CONDENSATE DRAIN
- ⑧ OUTLET WATER UNION (Bottom piping option)
- ⑨ INLET WATER UNION (Bottom piping option)
- ⑩ DRAIN VALVE
- ⑪ CONDENSATE PUMP
- ⑫ BOTTOM CONDENSATE PAN
- ⑬ TOP CONDENSATE PAN
- ⑭ COIL

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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TITLE:
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
INTERNAL PIPING

DWG NO: ACRC301S REV. 0

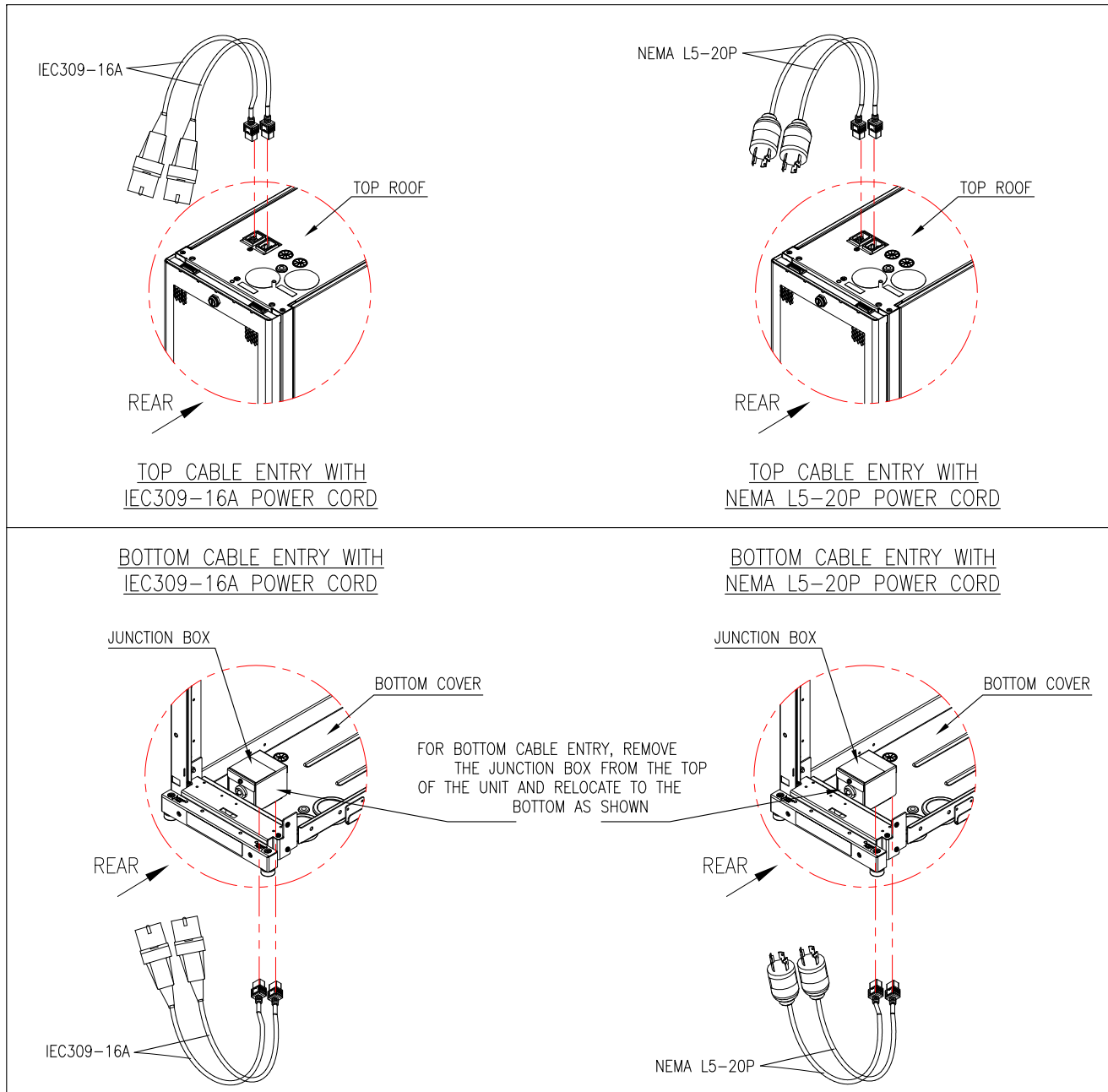
DRAWN: JAYAPRAKASH 10-MAR-14 FIRST ANGLE PROJECTION
ENGINEER: PAN GAO 10-MAR-14

PROJECT: DRAWINGS SHEET 11 OF 14

APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-MAR-14

POWER CORD CONNECTIONS

EXTERNAL POWER CORD LENGTH IS 1800mm [71 INCHES]



NOTES:

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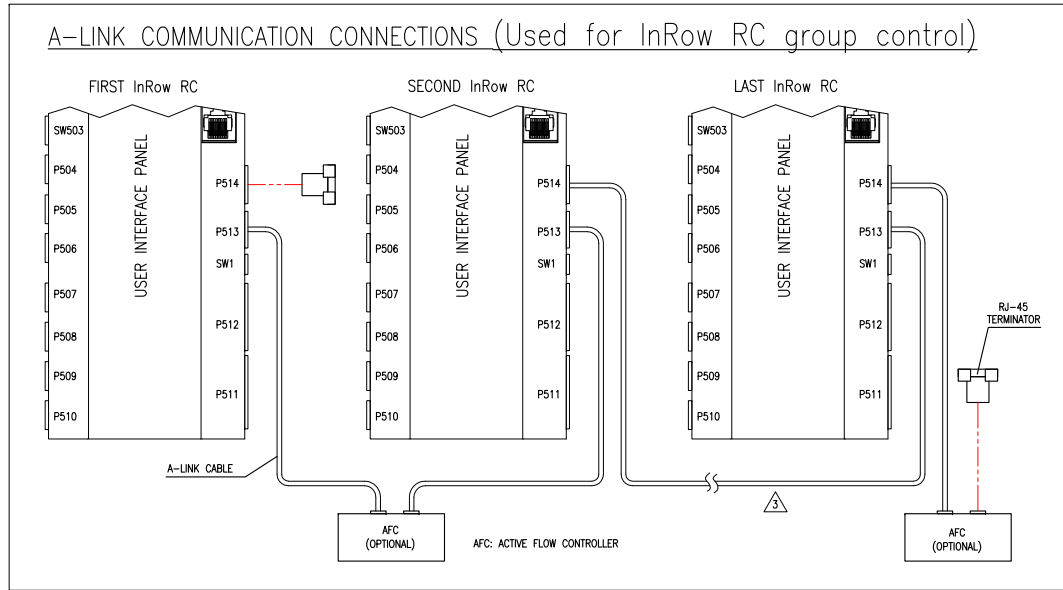
TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V, 50/60Hz, NEMA L5-20P/IEC 309-16A
POWER CORD CONNECTIONS

PROJECT: DRAWINGS SHEET 12 OF 14

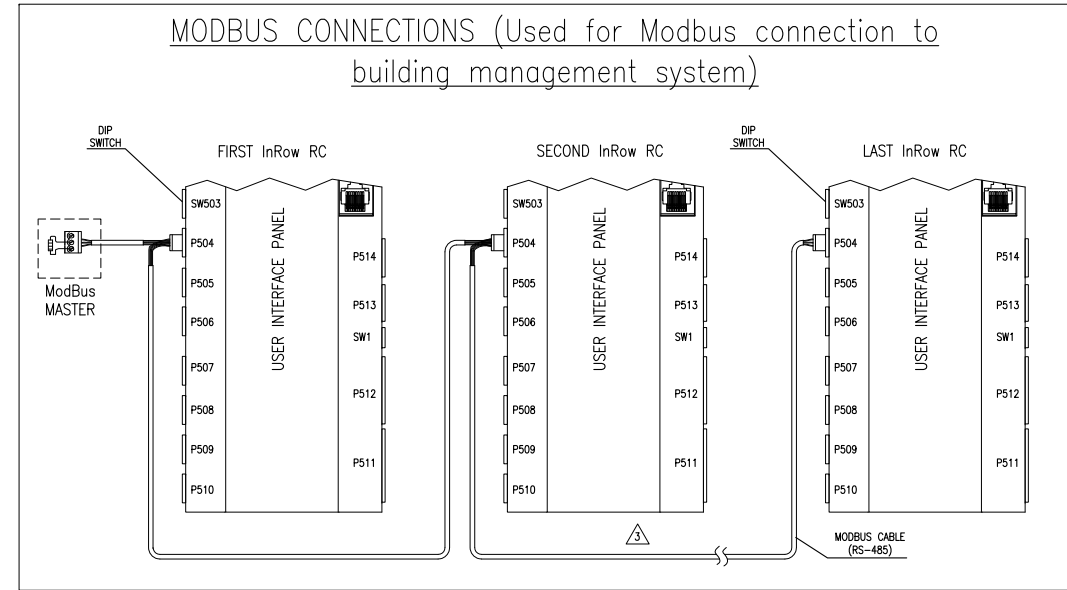
DWG NO:	ACRC301S	REV.	0
DRAWN:	JAYAPRAKASH	26-FEB-14	FIRST ANGLE PROJECTION
ENGINEER:	FAN GAO	10-MAR-14	
APPROVED:	C CUMMISKEY/N SCHWEISSUTH	10-MAR-14	

INTERFACE CONNECTIONS

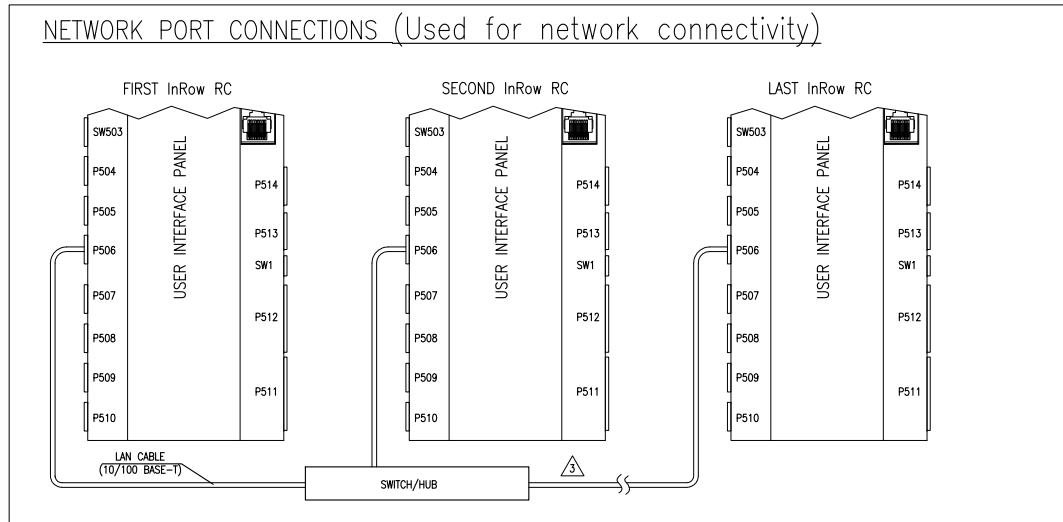
A-LINK COMMUNICATION CONNECTIONS (Used for InRow RC group control)



MODBUS CONNECTIONS (Used for Modbus connection to building management system)



NETWORK PORT CONNECTIONS (Used for network connectivity)



- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △3. INTERCONNECTING WIRING IS SUPPLIED AND FIELD INSTALLED BY OTHERS.

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TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
CONTROL CONNECTION

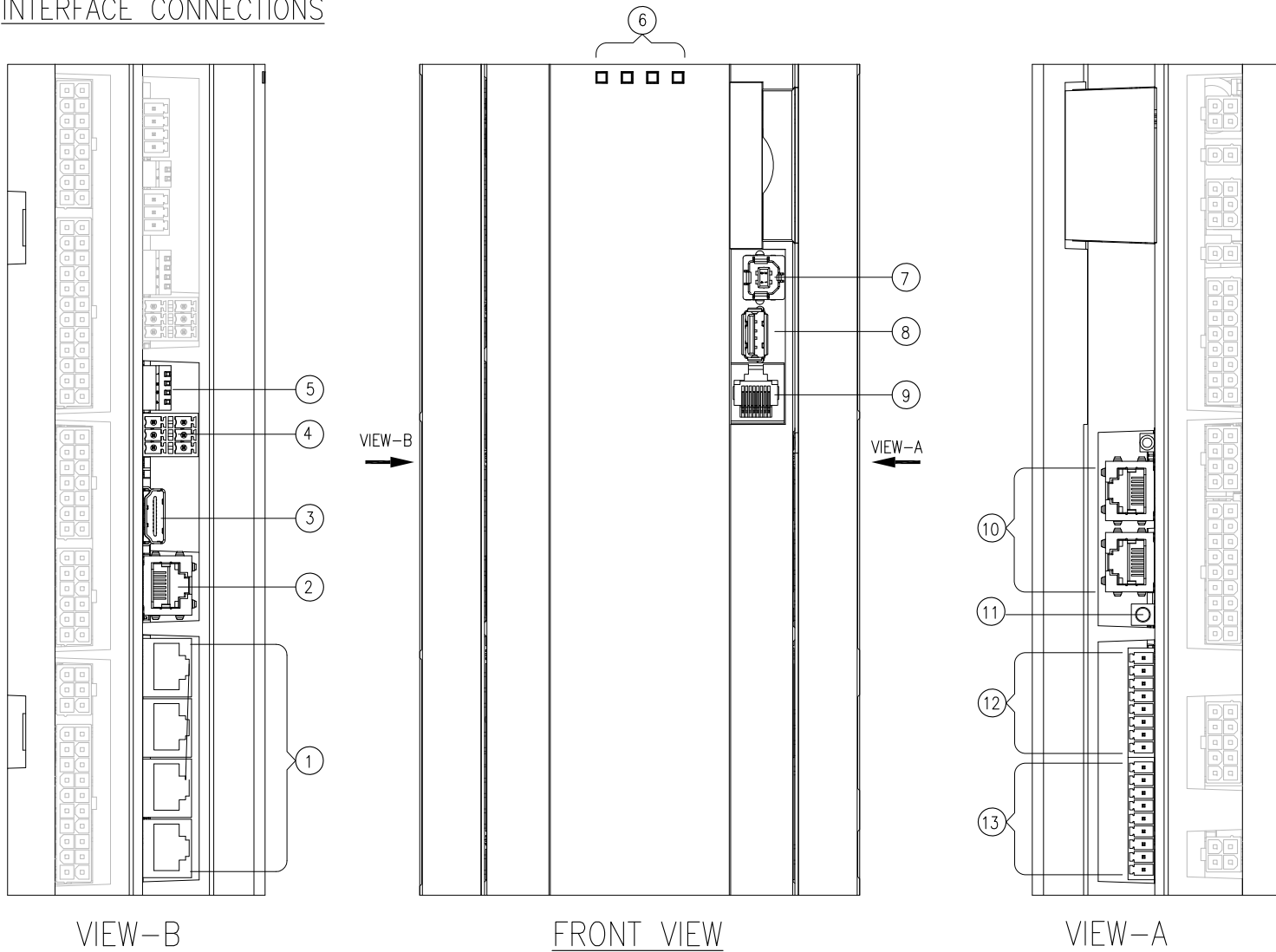
DWG NO: ACRC301S REV. 0

DRAWN: JAYAPRAKASH 26-FEB-14 FIRST ANGLE PROJECTION
ENGINEER: FAN GAO 10-MAR-14

PROJECT: DRAWINGS SHEET 13 OF 14

APPROVED: C CUMMISKEY/N SCHWEISSUTH 10-MAR-14

INTERFACE CONNECTIONS



- ① UNIVERSAL SENSOR PORTS
- ② NETWORK CONNECTION
- ③ TOUCH SCREEN DISPLAY CONNECTION
- ④ ModBus CONNECTION
- ⑤ ModBus CONFIGURATION SWITCHES
- ⑥ PROCESSOR STATUS LED
- ⑦ USB DEVICE PORT
- ⑧ USB HOST PORT
- ⑨ SERIAL PORT
- ⑩ A-Link PORT
- ⑪ RESET BUTTON
- ⑫ OUTPUT RELAY 4/REMOTE SHUTDOWN INPUT
- ⑬ OUTPUT RELAY 1-3

NOTES:

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TITLE:
InRow Chilled Water Air Conditioners
InRow RC, 300mm, Chilled Water
100-240V,50/60Hz,NEMA L5-20P/IEC 309-16A
INTERFACE CONNECTIONS

DWG NO:	ACRC301S	REV:	0
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PROJECT: DRAWINGS SHEET 14 OF 14

FIRST ANGLE PROJECTION