

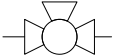






ACRD600P-601P-602P - In Row-RD, Air Cooled

| Sheet No. | Component /Detail | Description |
|-----------|-------------------------|--|
| 1 | Drawing Guide | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Drawing guide. |
| 2 | Isometric External View | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Isometric External View. |
| 3 | General Arrangement | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, General Arrangement. |
| 4 | Top & Bottom View | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Top & Bottom View. |
| 5 | Anchoring Details | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Anchoring Details. |
| 6-8 | Internal View | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Internal View. |
| 9 | Drain Line Pump Conn. | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Drain Line Pump Conn. |
| 10 | Supply Return Conn. | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, Supply Return Conn. |
| 11 | User Interface | ACRD600P-601P-602P, 200-240V 50-60 Hz, 460-480V 60 Hz, 380-415V 50-60Hz Air Cooled, User Interface. |

| LEGEND | | | |
|---|-----------------------------|---|---------------|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|  | SHUT OFF VALVE |  | P-Trap |
|  | HEAD PRESSURE CONTROL VALVE |  | S-Trap |
|  | PRESSURE RELIEF VALVE |  | Inverted Trap |
|  | CHECK VALVE | | |

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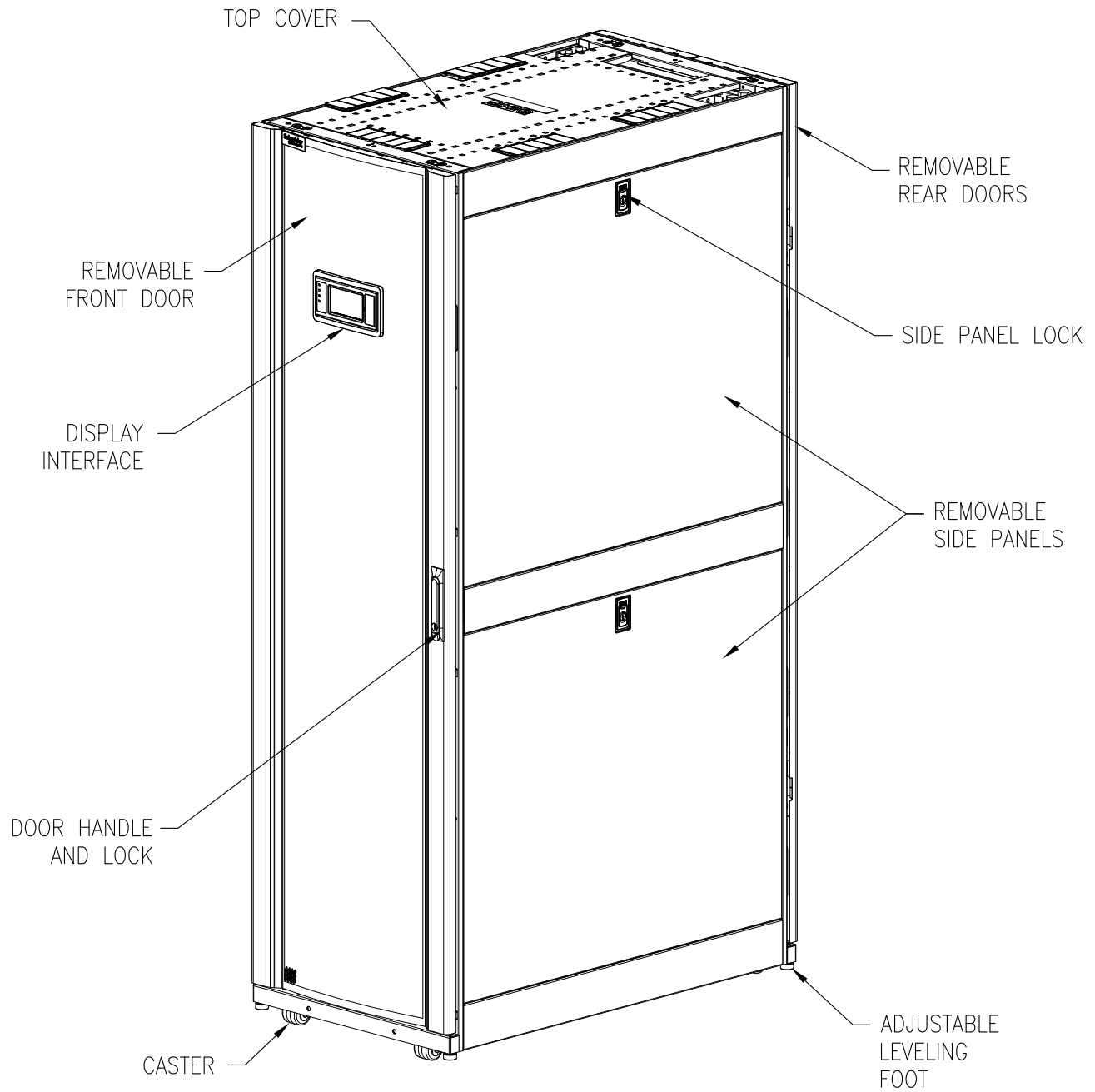
TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
DRAWING GUIDE

PROJECT: DRAWINGS SHEET 1 OF 11

DWG NO: ACRD600P-601P-602P REV. 1

DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

ANGLE
PROJECTION:
N/A



ISOMETRIC VIEW (External)

- 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 DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
ISOMETRIC EXTERNAL VIEW

PROJECT: DRAWINGS SHEET 2 OF 11

DWG NO: ACRD600P-601P-602P

DRAWN: JAYAPRAKASH 24-MAR-17

ENGINEER: XUXIANG ZHANG 24-MAR-17

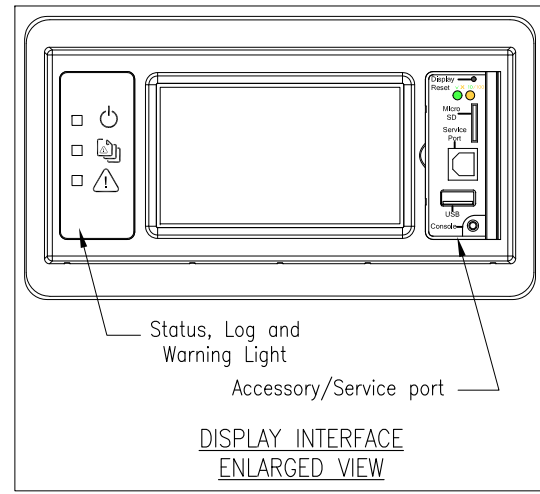
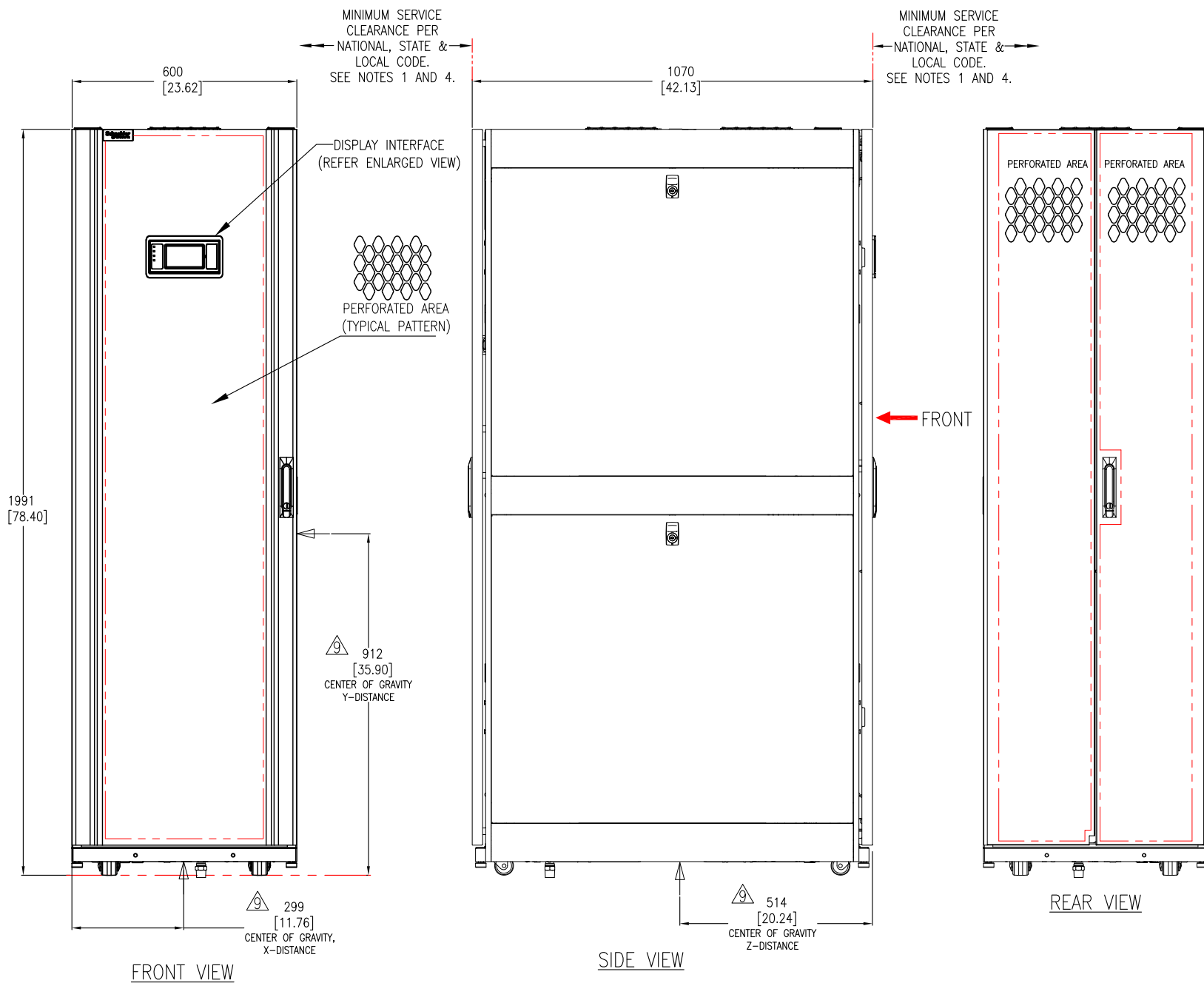
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

REV. 1

ANGLE

PROJECTION:

N/A



- 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. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 4. A MINIMUM OF 1200 mm [48"] CLEARANCE IS REQUIRED IN FRONT OR REAR OF THE ACRD UNIT IF THE UNIT HAS TO BE REMOVED FROM THE ROW.
 5. PIPING CONFIGURATION – TOP OR BOTTOM OF UNIT.
 6. FRONT AND REAR ACCESS IS REQUIRED FOR SERVICE.
 7. NET WEIGHT OF UNIT:
ACRD600P: 413 kg [911 lb]
ACRD601P/ACRD602P: 402 kg [886 LB].
 8. FLOOR LOADING:
ACRD600: 643.3 kg/meter² [131.83 lb/ft²].
ACRD601/ACRD602: 626 kg/meter² [128 lb/ft²].
 - △ 9. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.

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TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
GENERAL ARRANGEMENT

PROJECT: DRAWINGS SHEET 3 OF 11

DWG NO: ACRD600P-601P-602P

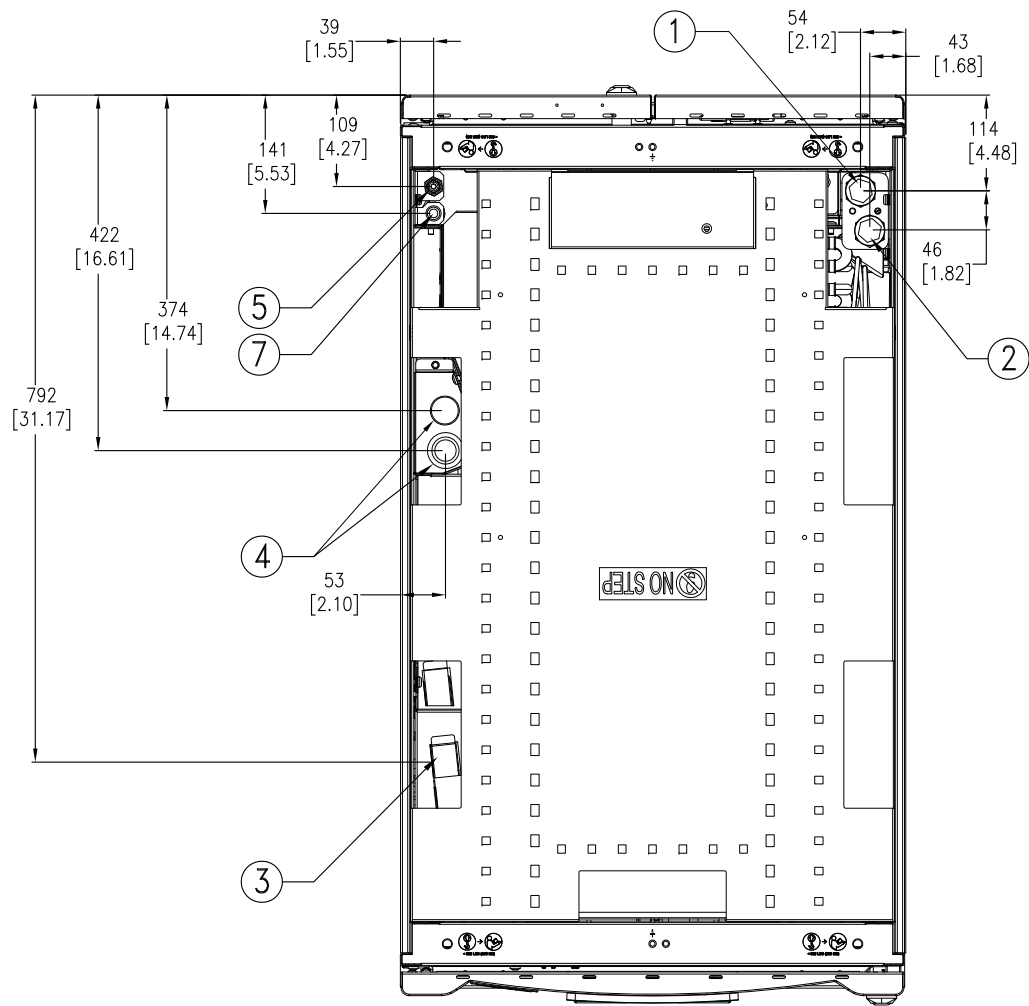
DRAWN: JAYAPRAKASH 24-MAR-17

ENGINEER: XUXIANG ZHANG 24-MAR-17

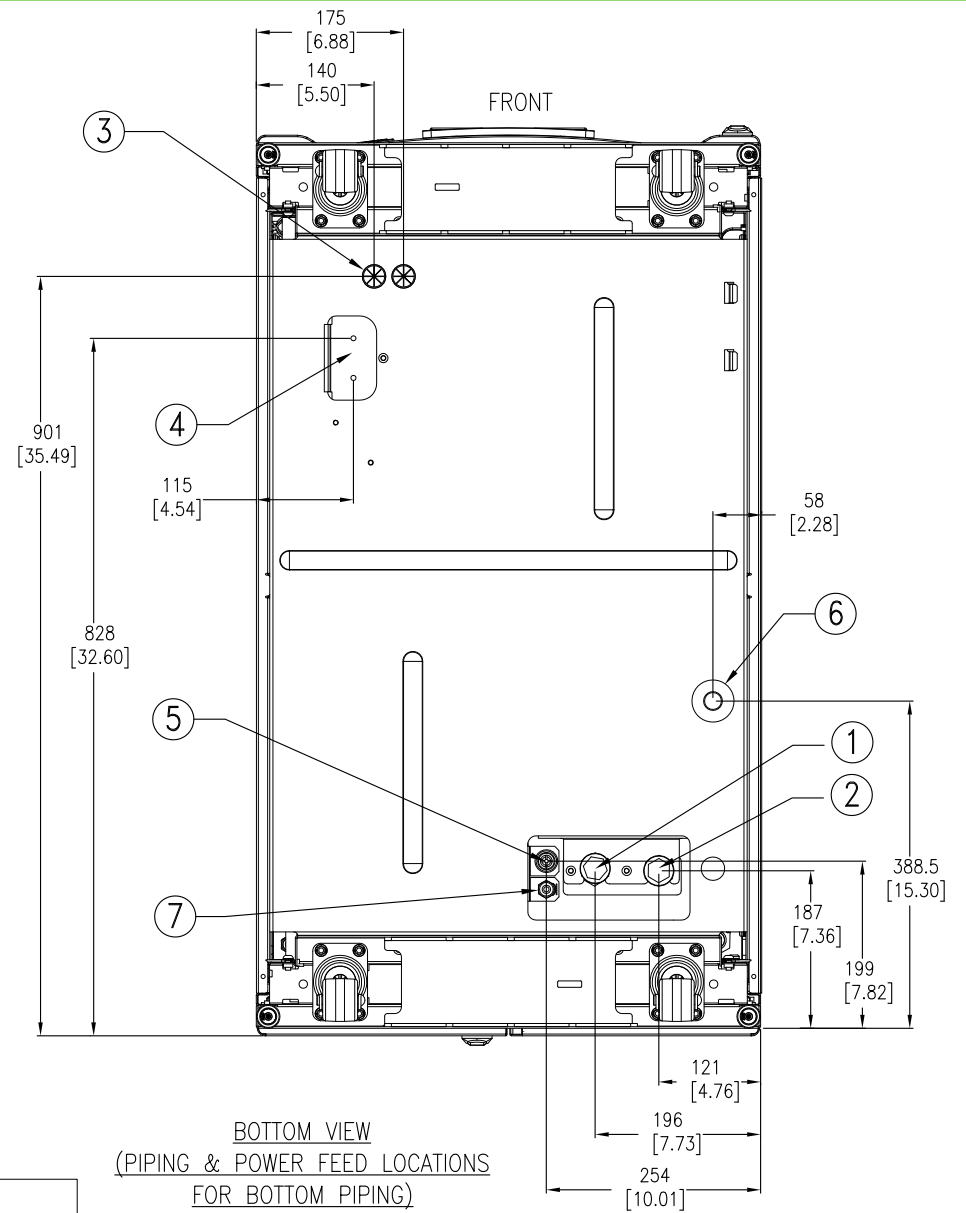
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

REV. 1

FIRST ANGLE PROJECTION



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



FRONT
BOTTOM VIEW
(PIPING & POWER FEED LOCATIONS
FOR BOTTOM PIPING)

POWER AND PIPING DETAILS

1. REFRIGERANT DISCHARGE LINE
2. REFRIGERANT LIQUID INLET LINE
3. COMMUNICATION CONNECTIONS {27.80mm[1.09"]}
4. POWER CONNECTIONS.
5. CONDENSATE DRAIN {12.7mm[1/2"]ID-15.875mm[5/8"] OD}
6. CONDENSATE OVER FLOW {25.00mm[0.98"]ID-50.00mm[1.97"]OD}
7. HUMIDIFIER WATER SUPPLY

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. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].

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TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
TOP VIEW & BOTTOM VIEW

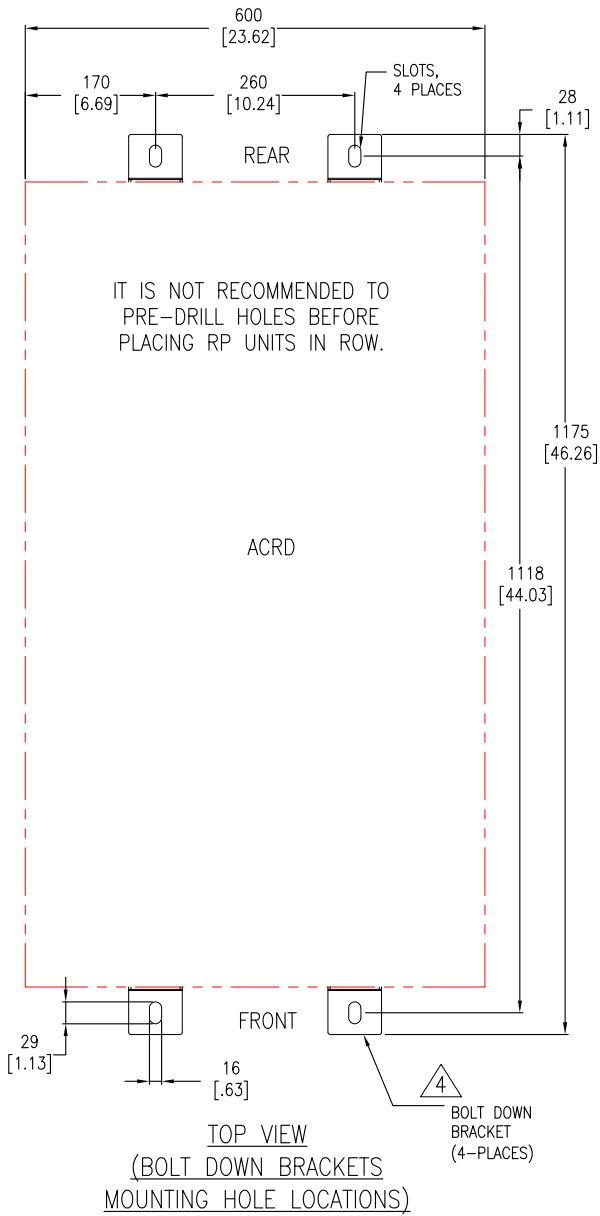
PROJECT: DRAWINGS SHEET 4 OF 11

DWG NO: ACRD600P-601P-602P REV. 1

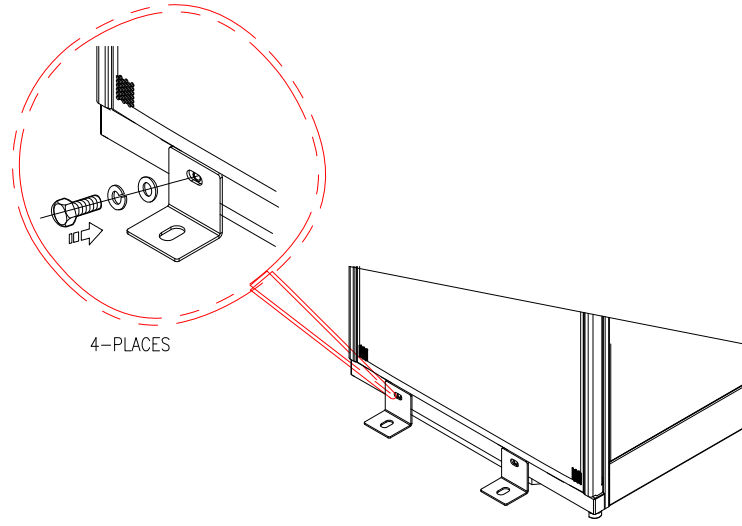
DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

FIRST ANGLE PROJECTION

ANCHORING DETAILS

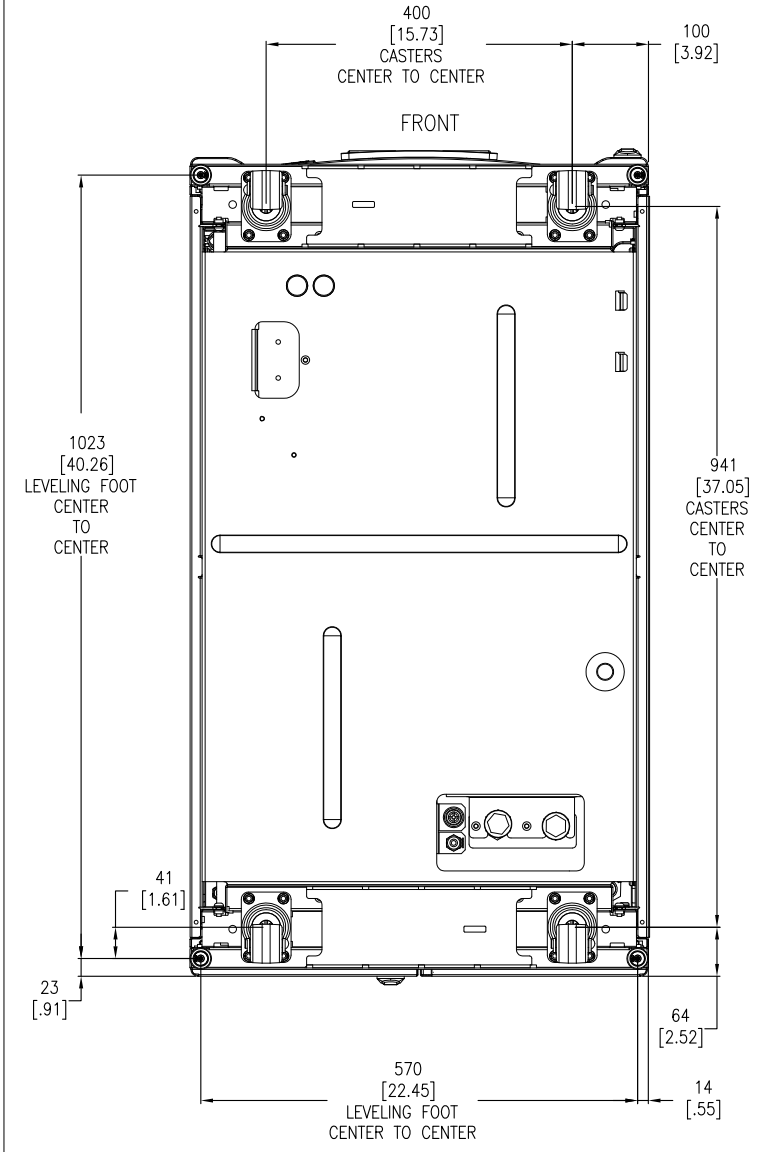


STABILIZING THE InRow RD:
 TO PREVENT THE ENCLOSURE FROM MOVING FROM ITS FINAL LOCATION (IF NOT BAYED TO ANOTHER DEVICE), USE AR7701(BOLT-DOWN KIT) ATTACH THE BRACKETS TO THE UNIT AS SHOWN. USE CODE COMPLIANT FASTENERS TO SECURE THE UNIT TO THE FLOOR.



TOP VIEW
 (BOLT DOWN BRACKETS MOUNTING HOLE LOCATIONS)

BOTTOM VIEW



BOTTOM VIEW
 (WITH CASTERS & LEVELLING FOOT DETAILS)

- 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. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 - △ 4. BOLT-DOWN KIT (SKU# AR7701) IS OPTIONAL AND HAS TO BE ORDERED SEPARATELY.

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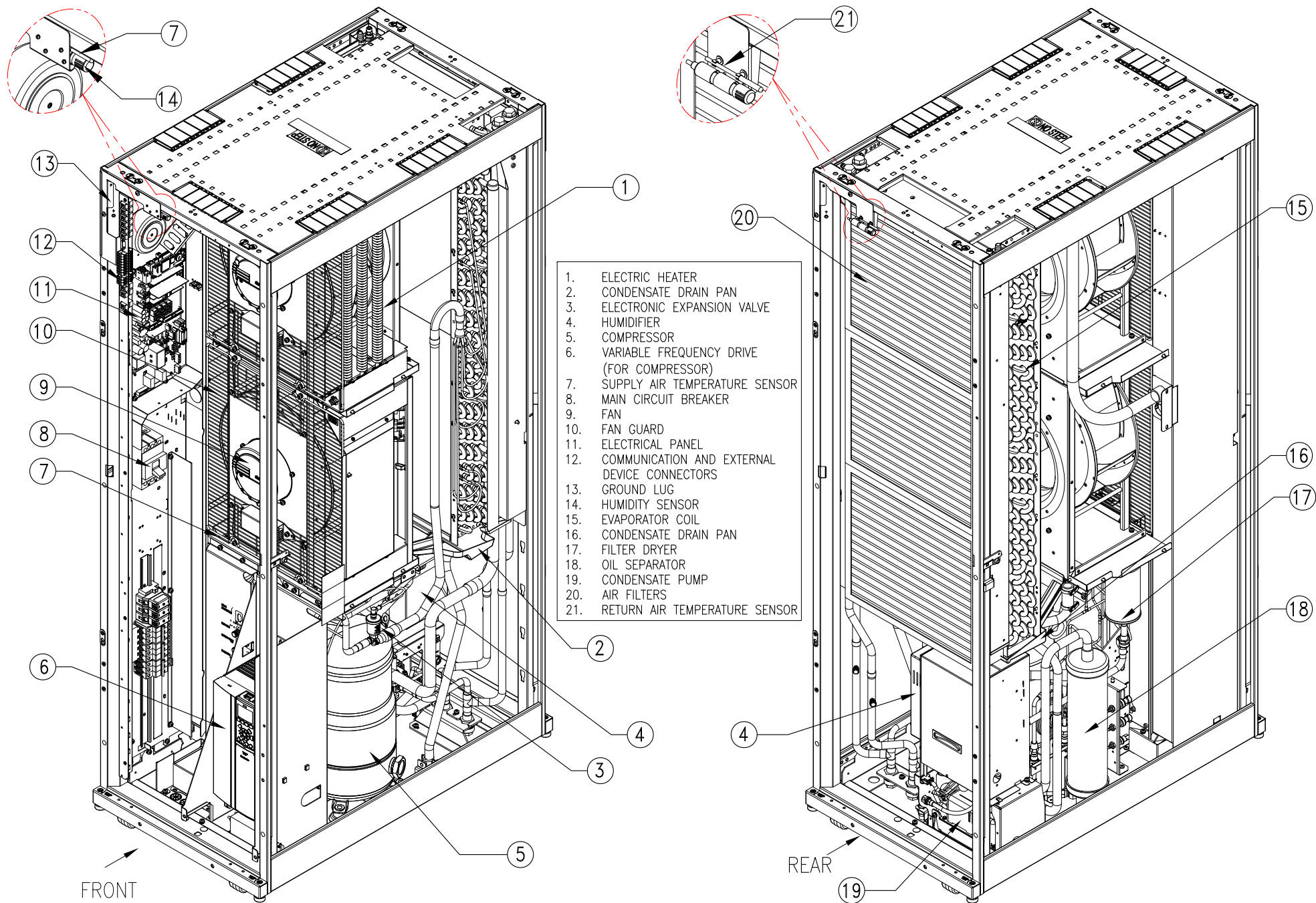
TITLE: InRow DIRECT EXPANSION InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER ACRD600P-200-240V 50/60Hz, ACRD601P-460-480V 60Hz ACRD602P: 380-415V, 50/60Hz ANCHORING DETAILS

PROJECT: DRAWINGS **SHEET 5 OF 11**

DWG NO: ACRD600P-601P-602P **REV.** 1

DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

FIRST ANGLE PROJECTION



1. ELECTRIC HEATER
2. CONDENSATE DRAIN PAN
3. ELECTRONIC EXPANSION VALVE
4. HUMIDIFIER
5. COMPRESSOR
6. VARIABLE FREQUENCY DRIVE (FOR COMPRESSOR)
7. SUPPLY AIR TEMPERATURE SENSOR
8. MAIN CIRCUIT BREAKER
9. FAN
10. FAN GUARD
11. ELECTRICAL PANEL
12. COMMUNICATION AND EXTERNAL DEVICE CONNECTORS
13. GROUND LUG
14. HUMIDITY SENSOR
15. EVAPORATOR COIL
16. CONDENSATE DRAIN PAN
17. FILTER DRYER
18. OIL SEPARATOR
19. CONDENSATE PUMP
20. AIR FILTERS
21. RETURN AIR TEMPERATURE SENSOR

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 COMPONENTS HAVE BEEN OMITTED FOR PURPOSE OF CLARITY.

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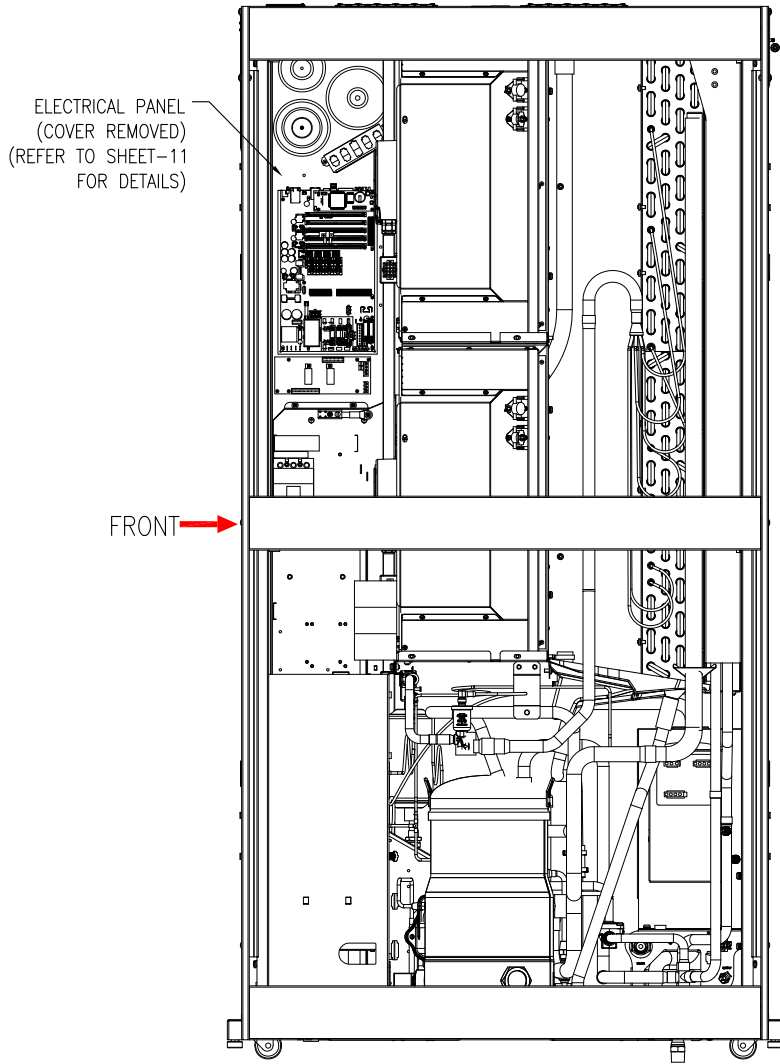
TITLE: InRow DIRECT EXPANSION
 InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
 ACRD600P-200-240V 50/60Hz, ACRD601P-460-480V 60Hz
 ACRD602P- 380-415V, 50/60Hz
 ISOMETRIC INTERNAL VIEW

PROJECT: DRAWINGS SHEET 6 OF 11

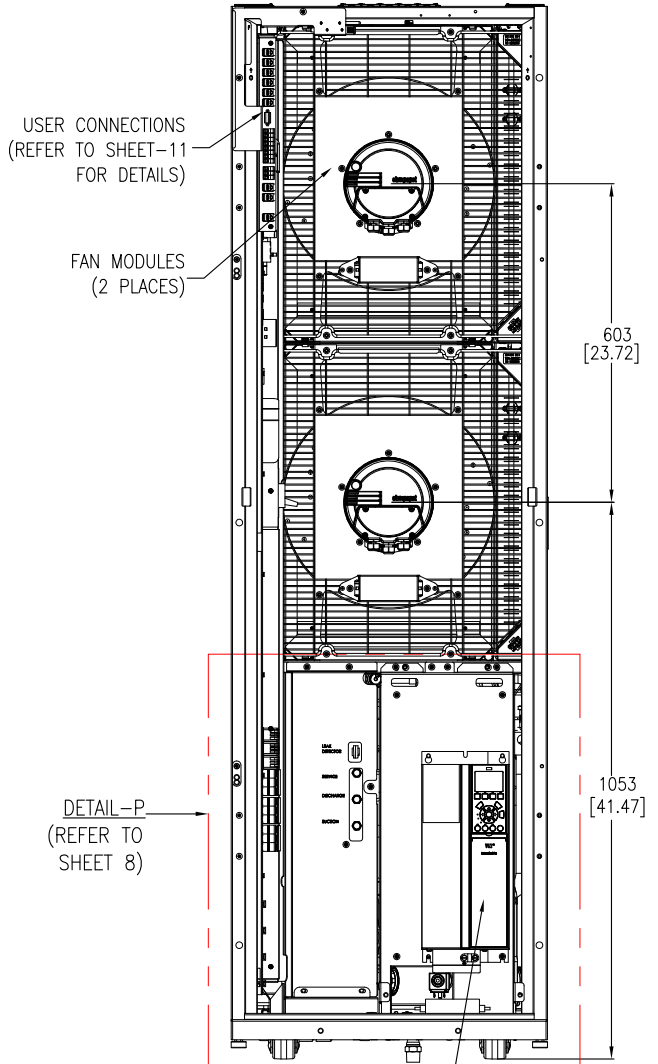
DWG NO: ACRD600P-601P-602P
ENGINEER: JAYAPRAKASH
 XUXIANG ZHANG

APPROVED: N SCHWEISSGUTH/H YANG

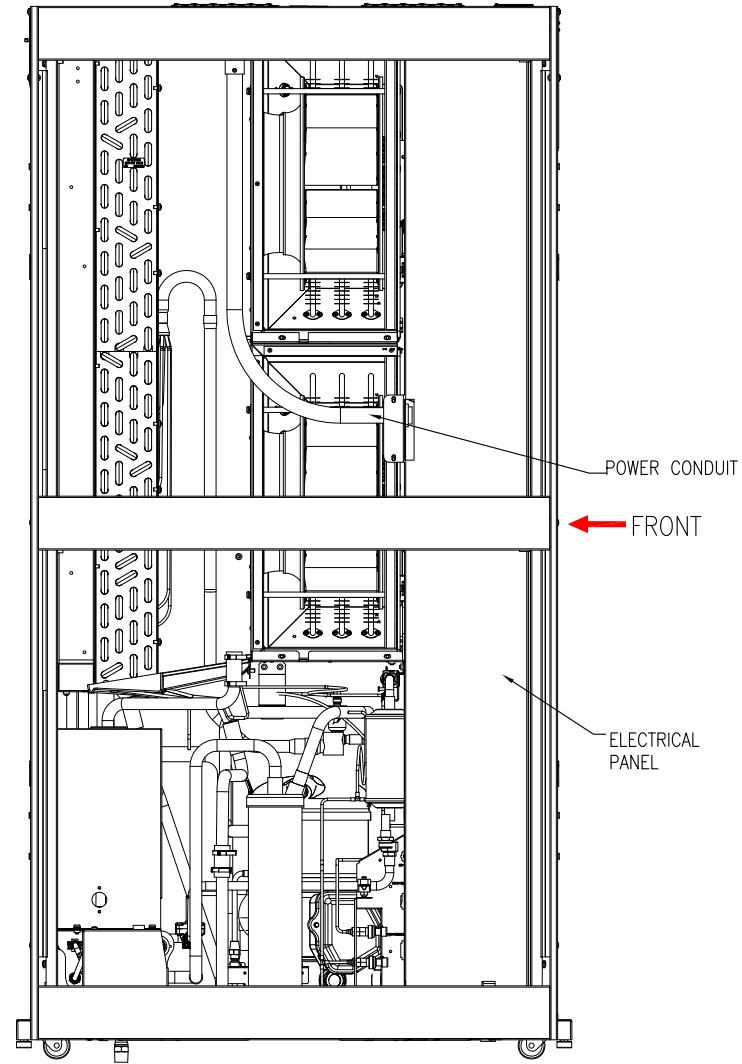
REV. 1
 24-MAR-17
 24-MAR-17
 24-MAR-17
ANGLE PROJECTION



RIGHT SIDE VIEW
(SIDE COVERS REMOVED)



FRONT VIEW
(DOOR REMOVED)



LEFT SIDE VIEW
(SIDE COVERS REMOVED)

- NOTES:
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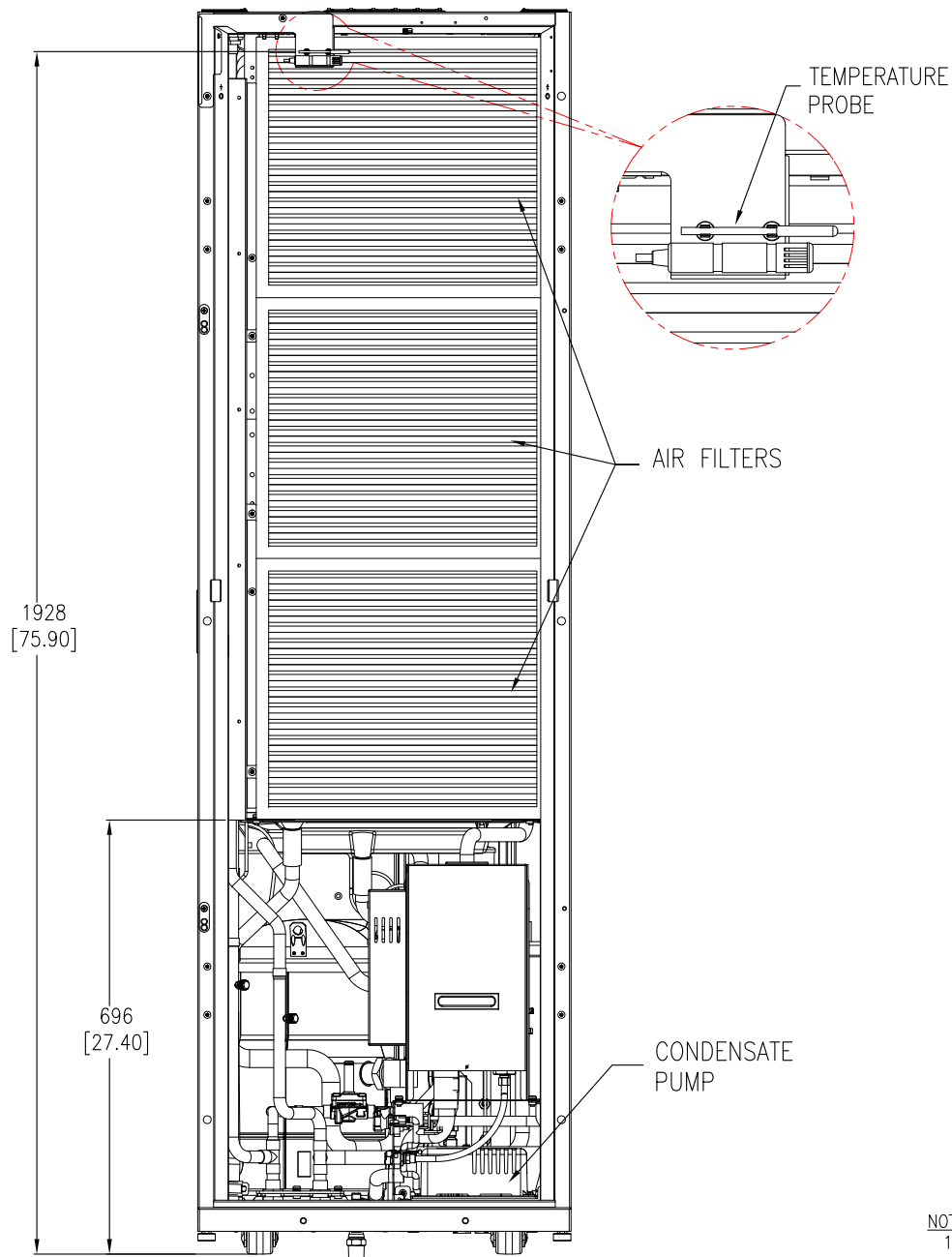
TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
INTERNAL VIEW

DWG NO: ACRD600P-601P-602P
DRAWN: JAYAPRAKASH
ENGINEER: XUXIANG ZHANG

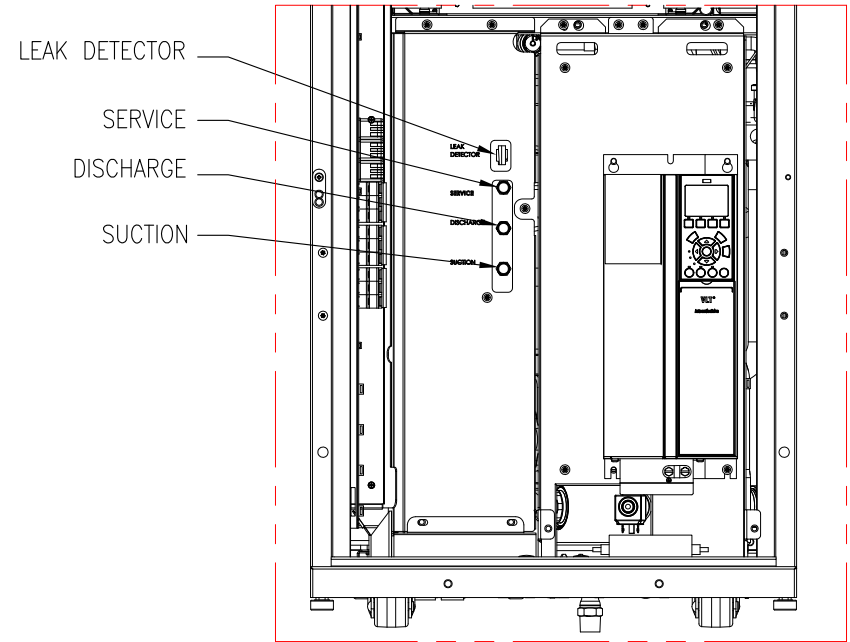
REV. 1
24-MAR-17
24-MAR-17
FIRST ANGLE PROJECTION

PROJECT: DRAWINGS SHEET 7 OF 11

APPROVED: N SCHWEISSGUTH/H YANG
24-MAR-17



REAR VIEW
(DOORS REMOVED)



DETAIL-P
(ENLARGED VIEW)

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. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
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TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
INTERNAL VIEW (REAR) AND DETAILS

DWG NO: ACRD600P-601P-602P

REV. 1

DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17

FIRST ANGLE PROJECTION

PROJECT: DRAWINGS SHEET 8 OF 11

APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

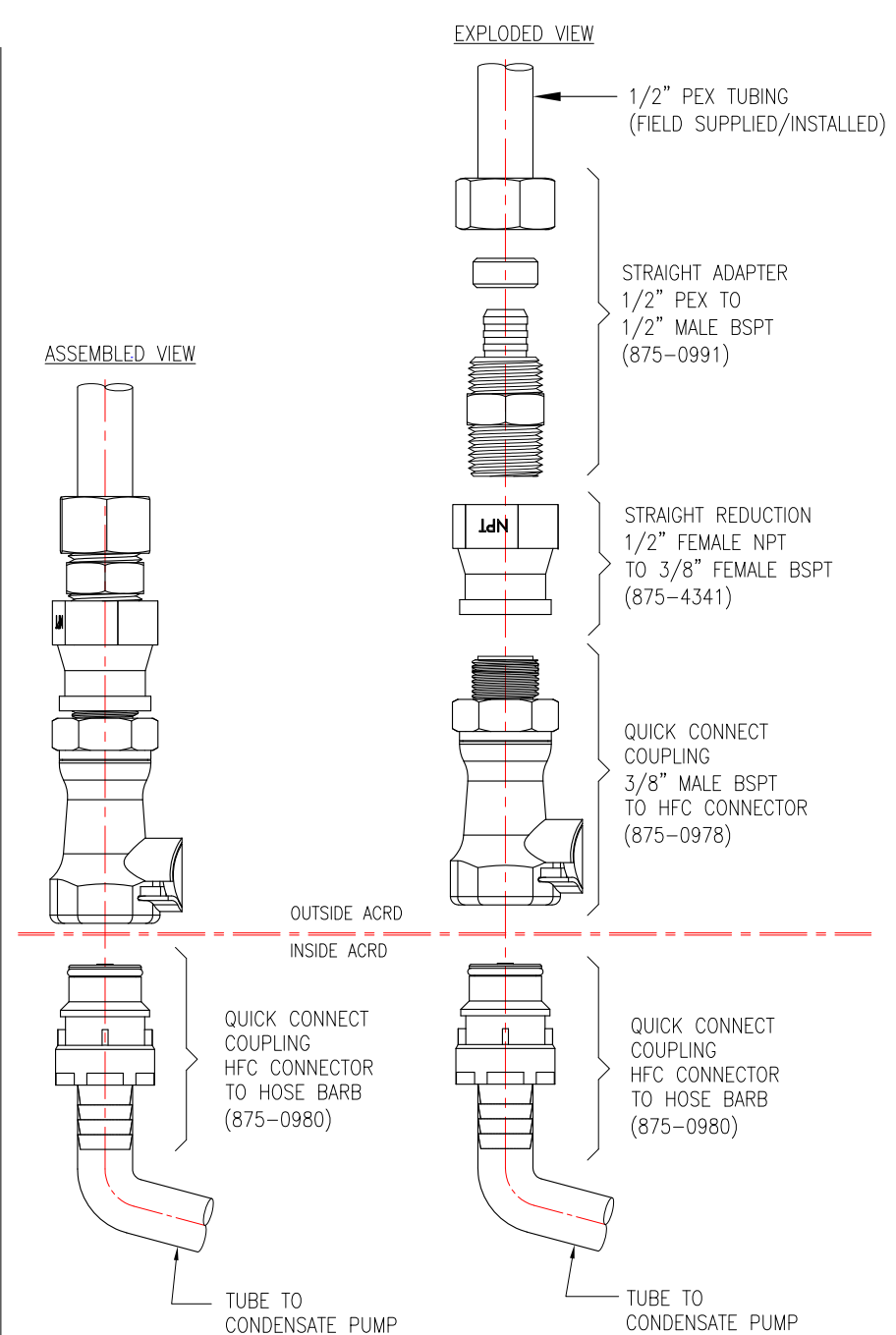
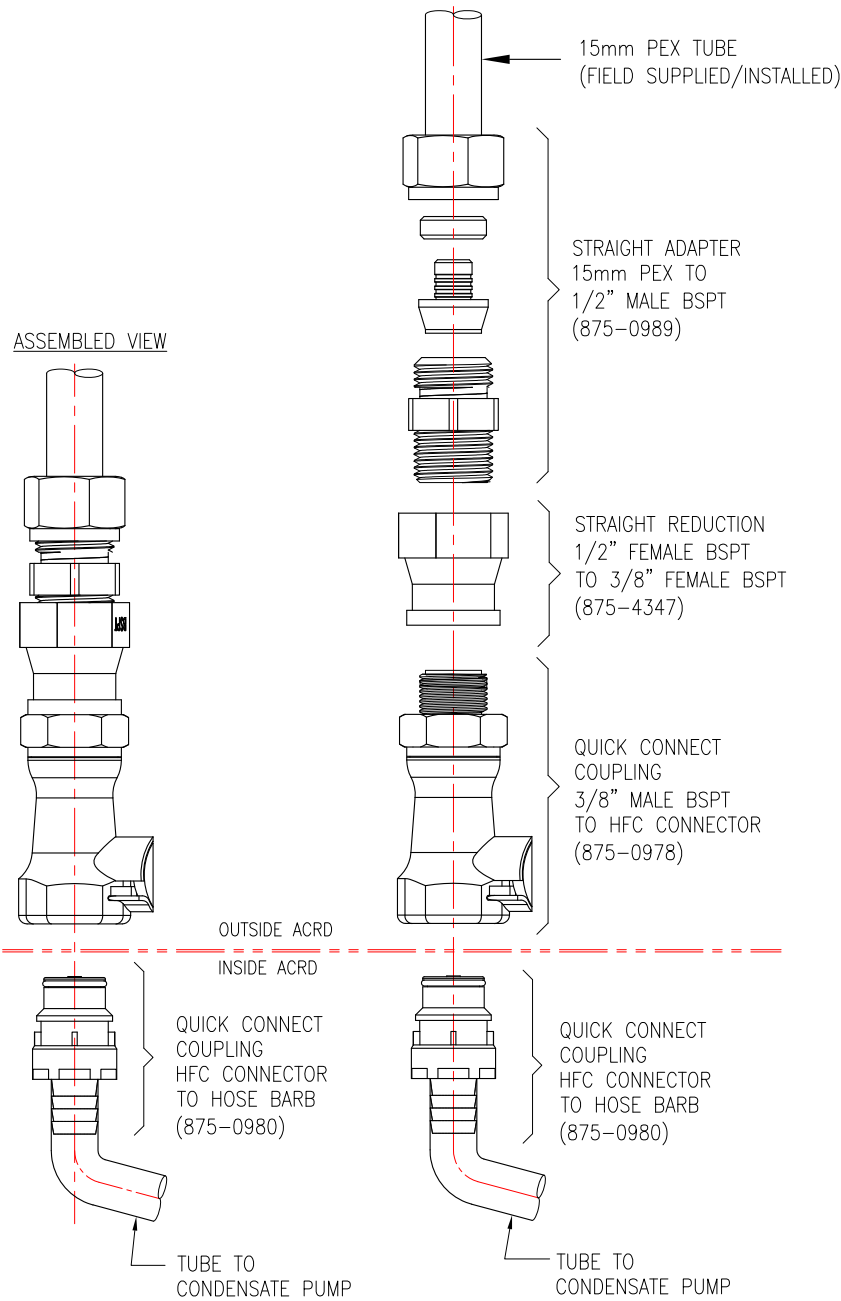
EXPLODED VIEW

DRAIN LINE FROM CONDENSATE PUMP

EXPLODED VIEW

ASSEMBLED VIEW

ASSEMBLED VIEW



- 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 DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
DRAIN LINE-CONDENSATE PUMP CONNECTIONS

PROJECT: DRAWINGS SHEET 9 OF 11

DWG NO: ACRD600P-601P-602P

DRAWN: JAYAPRAKASH 24-MAR-17

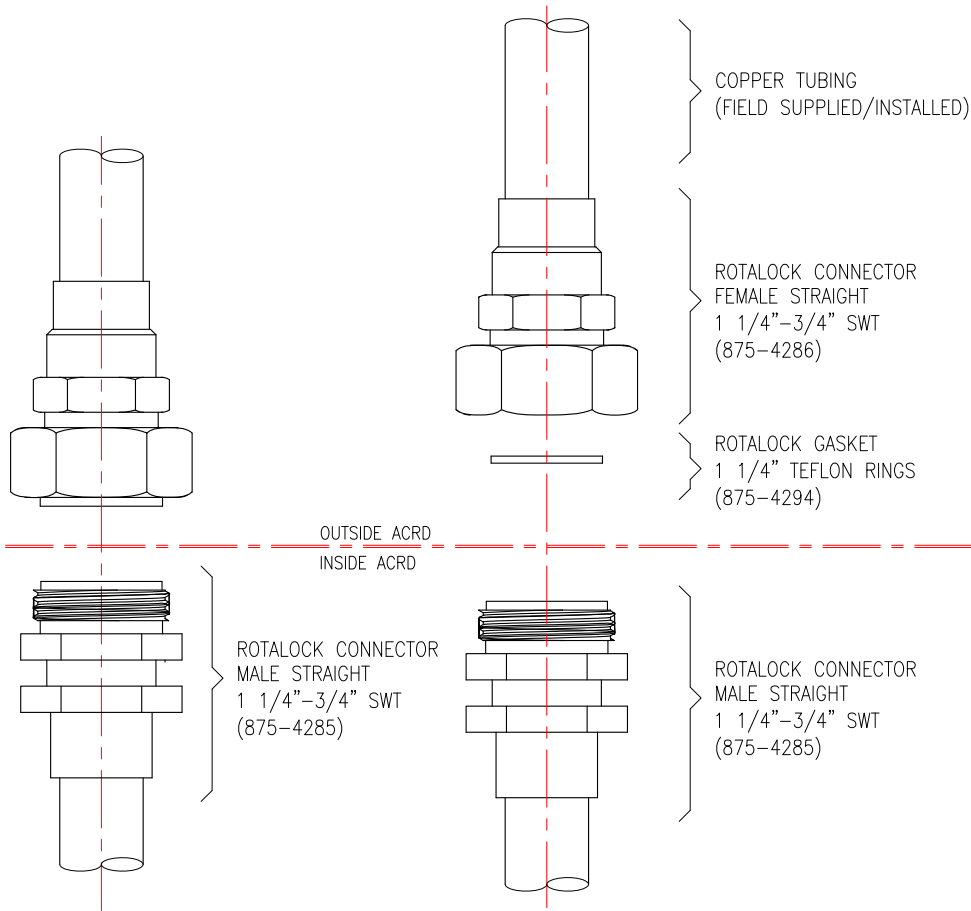
ENGINEER: XUXIANG ZHANG 24-MAR-17

APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

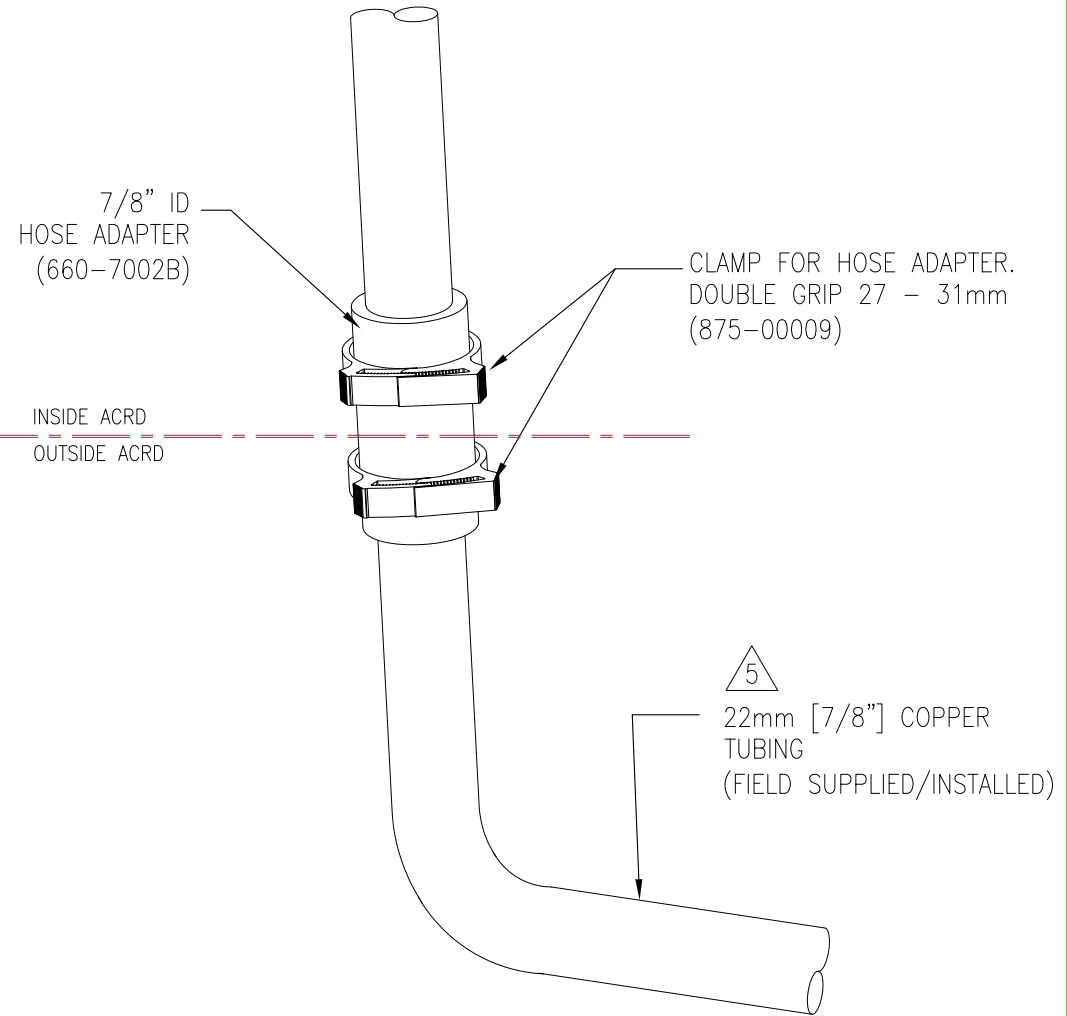
REV. 1

FIRST ANGLE PROJECTION

SUPPLY AND RETURN CONNECTIONS (TOP AND BOTTOM PIPING)



CONDENSATE OVER FLOW LINE



- 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. RECOMMENDED TORQUE FOR 1 1/4" ROTALOCK IS 90 Nm [66.4 lbt.ft].
 4. RECOMMENDED BRAZING ALLOY IS AWS A5.8 BCuP-5.
 - △ 5. FIELD SUPPLIED/INSTALLED COPPER TUBING IS DESIGNATED TO BUILDING DWV SYSTEM OR DRAIN PAN.

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TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P: 200-240V 50/60Hz, ACRD601P: 460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
SUPPLY, RETURN & CONDENSATE LINE

PROJECT: DRAWINGS SHEET 10 OF 11

DWG NO: ACRD600P-601P-602P REV. 1

DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17
APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

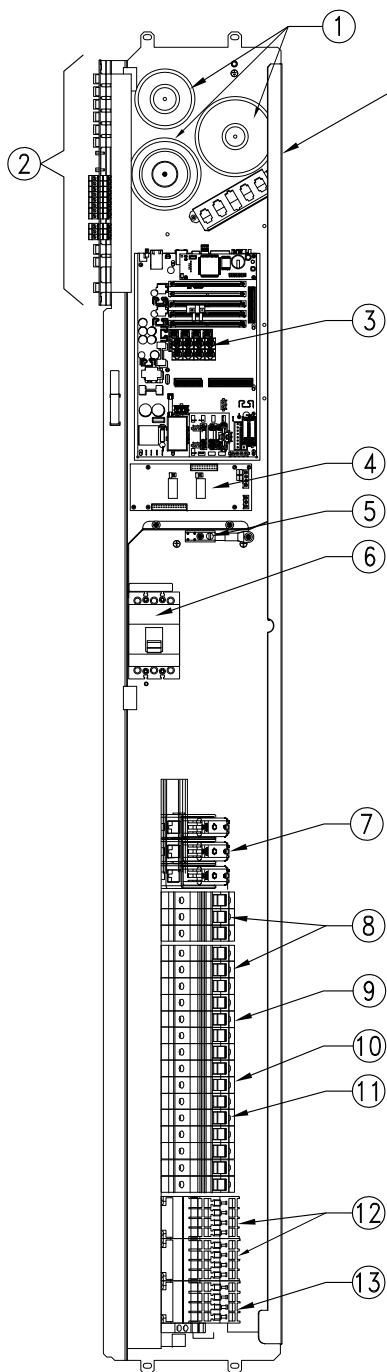
FIRST ANGLE PROJECTION

ELECTRICAL PANEL

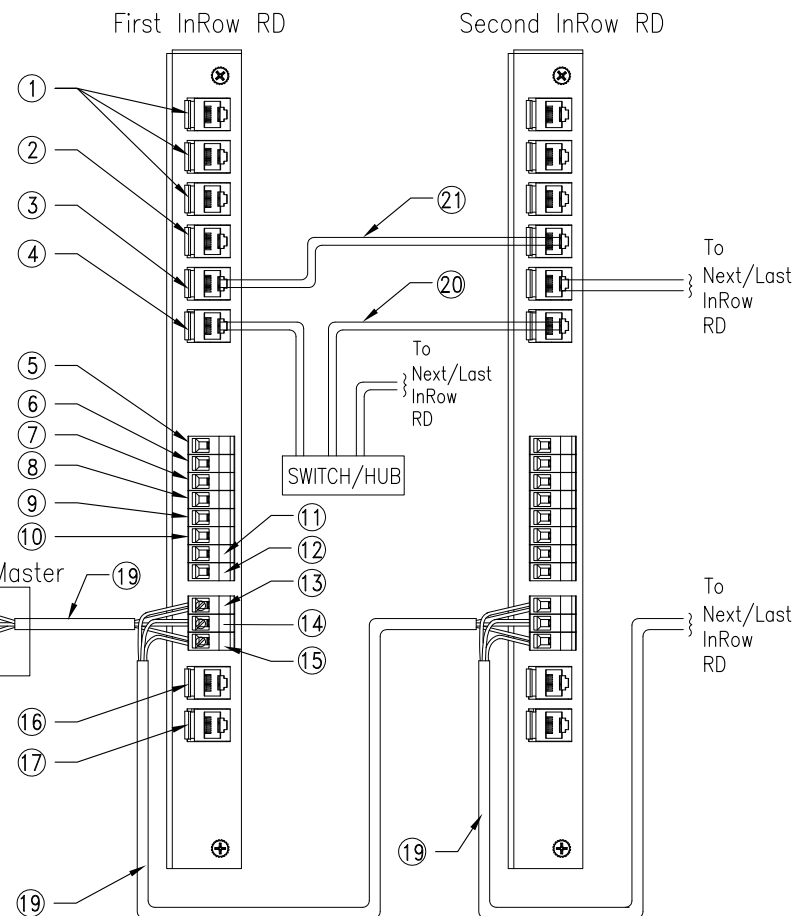
1. TRANSFORMERS
2. USER INTERFACE CONNECTORS
3. MAIN CONTROLLER BOARD
4. RELAY BOARD
5. GROUND LUG
6. MAIN CIRCUIT BREAKER
7. COMPRESSOR FUSE BLOCK
(ACRD600P, ACRD601P)
COMPRESSOR CIRCUIT BREAKER
(ACRD602P)
8. FAN CIRCUIT BREAKERS
9. CONTROLLER FUSE
10. HEATER CIRCUIT BREAKER
11. HUMIDIFIER CIRCUIT FUSE
12. HEATER CONTACTOR
13. HUMIDIFIER CONTACTOR

USER INTERFACE CONNECTORS

1. Rack Inlet temperature sensors 1,2,3
2. A-Link in (with provided RJ-45 terminator)
3. A-Link OUT (with provided RJ-45 terminator)
4. Network port
5. Customer Output NC (Normally Closed)
6. Customer Output COM (Common)
7. Customer Output NO (Normally Open)
8. Supply GND
9. Supply 12 Vdc (current limit 20mA)
10. Supply 24 Vdc (current limit 20mA)
11. Customer Input + (12-30Vac/Vdc, 24Vdc@11mA)
12. Supply COM
13. Modbus D1 (RXTX+)
14. Modbus D0 (RXTX-)
15. Modbus GND
16. Supply air temperature sensor(front)
17. Supply air humidity sensor(front)
18. Terminator resistor (provided)
19. Modbus cable (RS-485)
20. LAN cable (10/100 Base-T)
21. CAT-5 ethernet cable



FRONT VIEW
(ELECTRICAL PANEL)



FRONT VIEW
(USER INTERFACE CONNECTORS)
(INTERCONNECTING WIRING IS SUPPLIED AND FIELD INSTALLED BY OTHERS)

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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Schneider Electric

TITLE: InRow DIRECT EXPANSION
InRow RD, 600mm, AIR COOLED WITH HUMIDIFIER
ACRD600P:200-240V 50/60Hz, ACRD601P:460-480V 60Hz
ACRD602P: 380-415V, 50/60Hz
ELECTRICAL PANEL AND USER INTERFACE

DWG NO: ACRD600P-601P-602P

REV. 1

DRAWN: JAYAPRAKASH 24-MAR-17
ENGINEER: XUXIANG ZHANG 24-MAR-17

ANGLE PROJECTION

PROJECT: DRAWINGS SHEET 11 OF 11

APPROVED: N SCHWEISSGUTH/H YANG 24-MAR-17

NA