

FACILITY PLANNING DATA	
ELECTRICAL INPUT	1 PH, 200-240 VAC-50/60Hz
POWER CONNECTION TYPE	HARDWIRED
FULL LOAD AMPS(FLA)	26.9 - 28.5
MINIMUM CIRCUIT AMPACITY (MCA)	41.75
MAXIMUM OVERCURRENT PROTECTION (MOP)	45
AIR SYSTEM-FAN	
FAN TYPE	ELECTRICALLY COMMUTATED
AIR VOLUME CMH (SCFM)	4950 (2912)
FAN CONTROL	VARIABLE SPEED
NUMBER OF FANS	8
FAN POWER W (TOTAL)	YES
EMERGENCY AIR VOLUME-CMH (SCFM)	5300 (3117)
EVAPORATOR COIL / ECONOMIZER COIL	
FACE AREA -Sqm (Sqft)	0.51 (5.49)
ROWS DEEP	3
FILTERS - WASHABLE (STANDARD)	
QUANTITY	2
SIZE mm (inch)	238x933 (9.375x36.75)
DEPTH mm (inch)	12.7 (0.5)
EFFICIENCY	MERV 1
FILTERS - PLEATED (OPTIONAL)	
QUANTITY	2
SIZE mm (inch)	238x933 (9.375x36.75)
DEPTH mm (inch)	51 (2)
EFFICIENCY	MERV 8
CONNECTION SIZES (NOT PIPING SIZES)	
SUCTION PIPING	1/4 inch(12UNF), 7/8 inch TUBE
LIQUID PIPING	1 inch(12UNF), 1/2 inch TUBE
CONDENSATE DRAIN	4.77 mm (3/16 inch) ID 6.35 mm (1/4 inch) OD
HUMIDIFIER WATER SUPPLY LINE	1/4 inch
HUMIDIFICATION	
FLUSH CYCLE	AUTOMATIC
CAPACITY kg/hr (lb/hr)	3 kg/hr (6.6 lb/hr)
REHEAT	
CAPACITY kW (BTU/hr)	3 kW (10200 BTU/hr) @220V

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL STANDARDS.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 - WHEN UNIT IS INSIDE THE ROW 900[36] REQUIRED FOR SERVICE ACCESS, WHEN OUTSIDE THE ROW 1200[48] REQUIRED FOR UNIT MOVEMENT. CHECK THE LOCAL AND NATIONAL CODES AND REGULATIONS FOR FURTHER SERVICE ACCESS REQUIREMENTS.
 - AVAILABLE PIPING CONFIGURATIONS: TOP OR BOTTOM.
 - NET WEIGHT OF UNIT IS 200 kg [440.9 lb].
 - THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.

- LIMIT WORKING CONDITIONS:**
- REFRIGERANT TYPE : R410A
 - VOLTAGE INPUT TOLERANCE : ±10%
 - APPROXIMATE MINIMUM RECOMMENDED LOAD : 8kW (27297 BTU/hr) [FOR DX ONLY MODE]
 - AMBIENT %RH : 5 TO 80%RH
 - ALTITUDE : 3000 METERS (9843 FEET)
- STORAGE CONDITIONS:**
- TEMPERATURE : -25°C TO +65°C (-13°F TO +149°F)
 - HUMIDITY : 5 TO 95%RH

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TITLE: InRow DIRECT EXPANSION
InRow DX 300mm 30kW Indoor Unit
DUAL FEED 200-240V, 50/60Hz CE/UL
WITH HUMIDIFIER & REHEAT
GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWINGS **SHEET 1 OF 6**

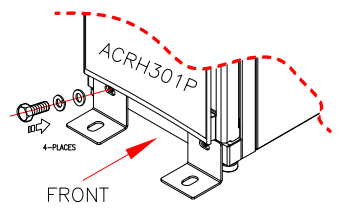
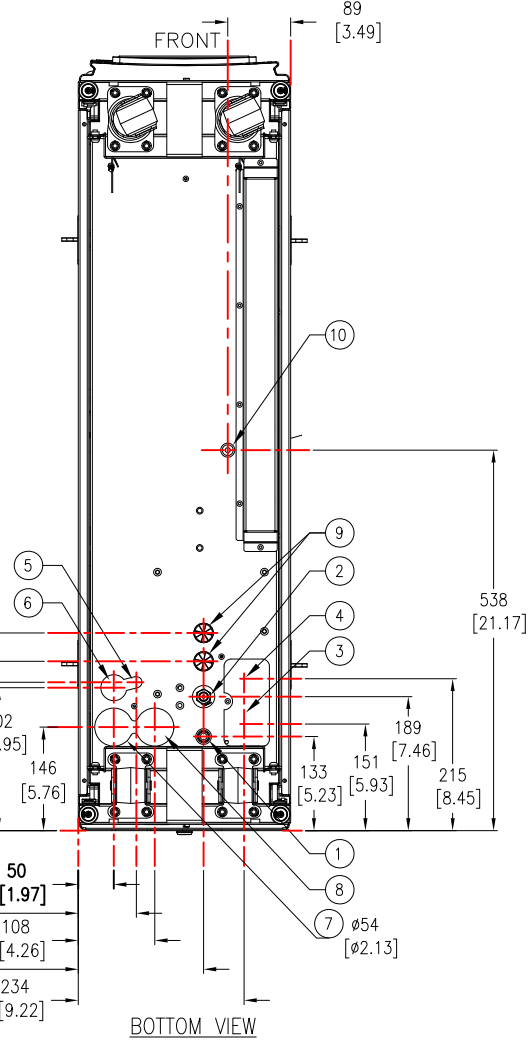
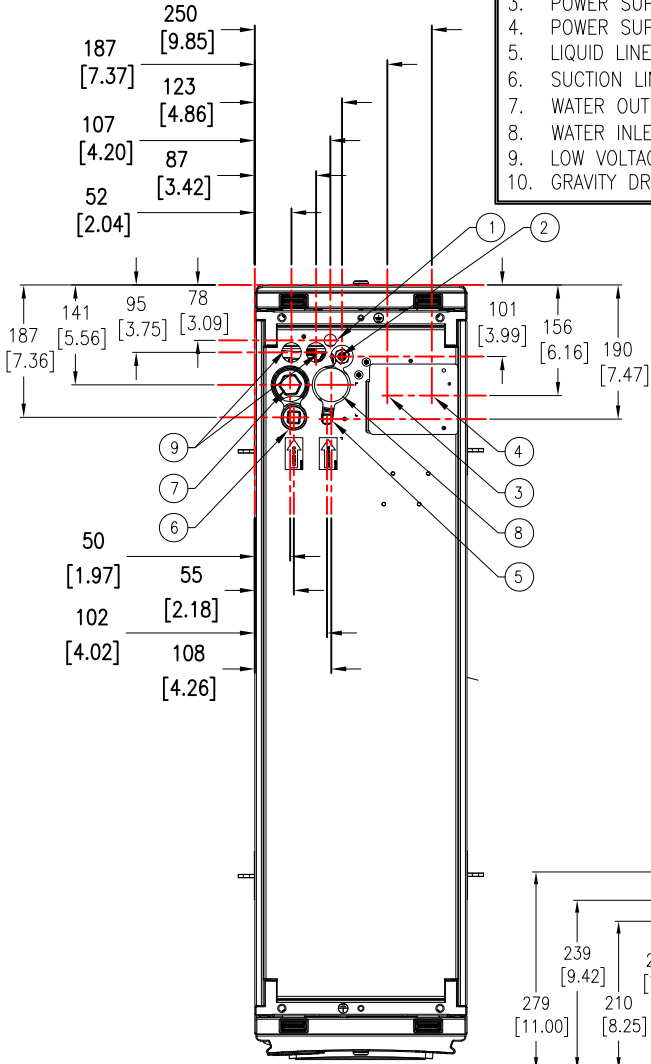
DWG NO: ACRH301P **REV:** 0

DRAWN: BALA **DATE:** 23-JUN-21 **FIRST ANGLE PROJECTION**

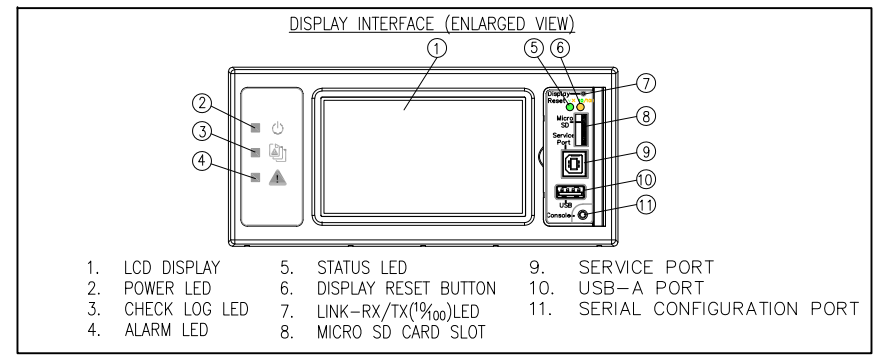
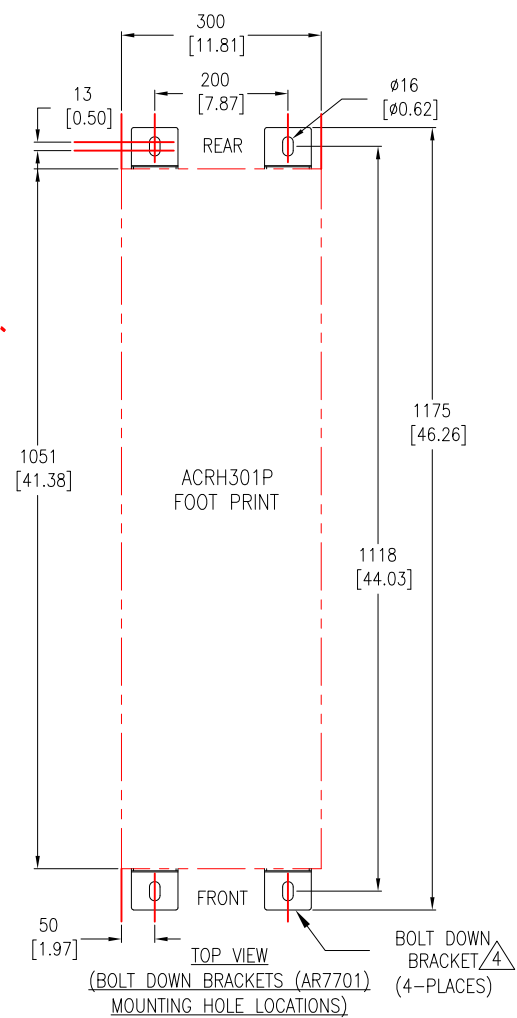
ENGINEER: H YANG **DATE:** 30-JUN-21

APPROVED: H YANG **DATE:** 30-JUN-21

1. CONDENSATE DRAIN LINE OUTLET--0.188 INCH ID
2. HUMIDIFIER WATER SUPPLY INLET CONNECTION--
1/4 INCH NPT OR 1/4 INCH BSPT
3. POWER SUPPLY 1 INLET
4. POWER SUPPLY 2 INLET
5. LIQUID LINE CONNECTION(1 INCH (14 UNS))--1/2 INCH TUBE
6. SUCTION LINE CONNECTION(1 1/4 INCH (12 UNF))--7/8 INCH TUBE
7. WATER OUTLET(1 7/8 INCH (14 UN) - 1 1/8 INCH TUBE
8. WATER INLET(1 7/8 INCH (14 UN) - 1 1/8 INCH TUBE
9. LOW VOLTAGE INPUT WIRING INLETS
10. GRAVITY DRAIN CONNECTION



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



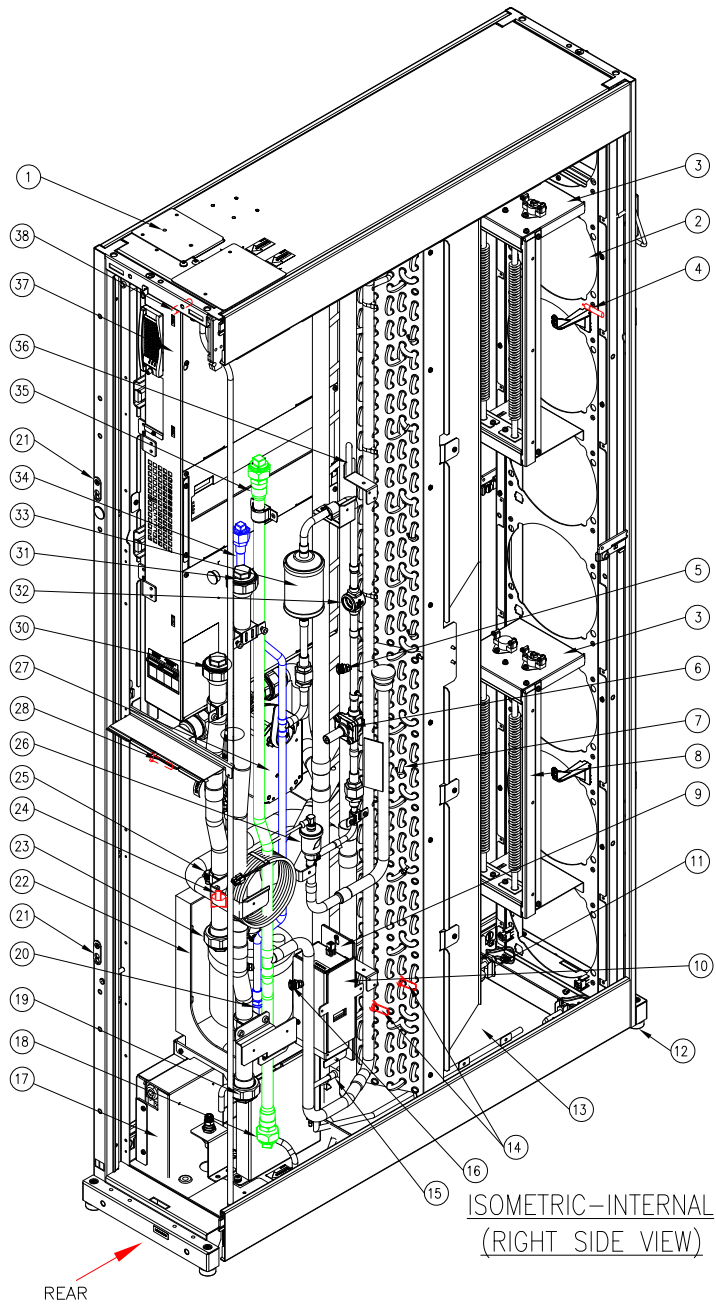
- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL STANDARDS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 - △4. BOLT-DOWN KIT (SKU#AR7701) IS OPTIONAL AND HAS TO BE ORDERED SEPARATELY.

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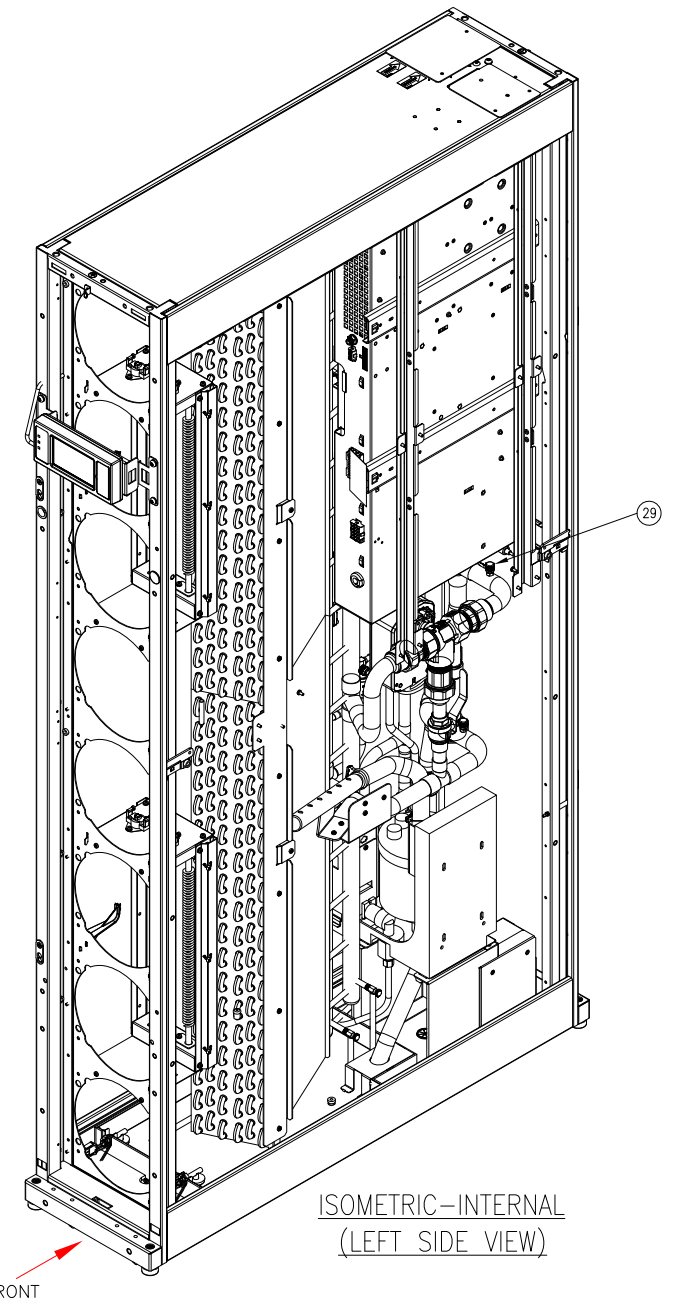
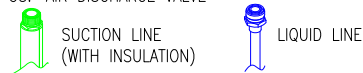
TITLE: InRow DIRECT EXPANSION InRow DX 300mm 30kW Indoor Unit DUAL FEED 200-240V, 50/60Hz CE/UL WITH HUMIDIFIER & REHEAT TOP BOTTOM VIEWS AND ANCHORING
PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 6

DWG NO: ACRH301P REV 0
DRAWN: BALA 23-JUN-21
ENGINEER: H YANG 30-JUN-21
APPROVED: H YANG 30-JUN-21
FIRST ANGLE PROJECTION



ISOMETRIC-INTERNAL
(RIGHT SIDE VIEW)

1. POWER SUPPLY CONNECTIONS (TOP)
2. FAN LOCATION - TYPICAL
3. ELECTRICAL HEATER
4. UPPER SUPPLY AIR TEMPERATURE SENSOR
5. LIQUID LINE SERVICE PORT
6. SOLENOID VALVE
7. COOLING COIL
8. LOWER SUPPLY AIR TEMPERATURE SENSOR
9. LOWER RETURN AIR TEMPERATURE SENSOR
10. CONDENSATE DRAIN PUMP
11. DRAIN PAN FLOAT SWITCH
12. LEVELING FEET
13. CONDENSATE DRAIN PAN
14. DRAIN VALVE
15. TEMPERATURE SENSOR (EVAPORATOR COIL OUTLET)
16. SERVICE PORT
17. POWER SUPPLY CONNECTIONS (BOTTOM)
18. BOTTOM OUTLET CONNECTION (SUCTION LINE)
19. PIPE CONNECTION, WATER BOTTOM INLET
20. BOTTOM INLET CONNECTION (LIQUID LINE) - REFER INTERNAL REAR VIEW IN PAGE 5
21. JOINING BRACKET
22. HUMIDIFIER
23. PIPE CONNECTION, WATER BOTTOM OUTLET
24. TEMPERATURE SENSOR (WATER IN LINE)
25. SERVICE PORT (INLET WATER)
26. ELECTRONIC EXPANSION VALVE (EEV)
27. 3-WAY VALVE ACTUATOR
28. TEMPERATURE AND HUMIDITY SENSOR
29. SERVICE PORT (OUTLET WATER)
30. PIPE CONNECTION, WATER TOP OUTLET
31. PIPE CONNECTION, WATER TOP INLET
32. SIGHT GLASS
33. FILTER DRIER
34. TOP INLET CONNECTION (LIQUID LINE)
35. TOP OUTLET CONNECTION (SUCTION LINE)
36. UPPER RETURN AIR TEMPERATURE SENSOR
37. ELECTRICAL BOX
38. AIR DISCHARGE VALVE



ISOMETRIC-INTERNAL
(LEFT SIDE VIEW)

NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
4. SOME STRUCTURAL DETAILS BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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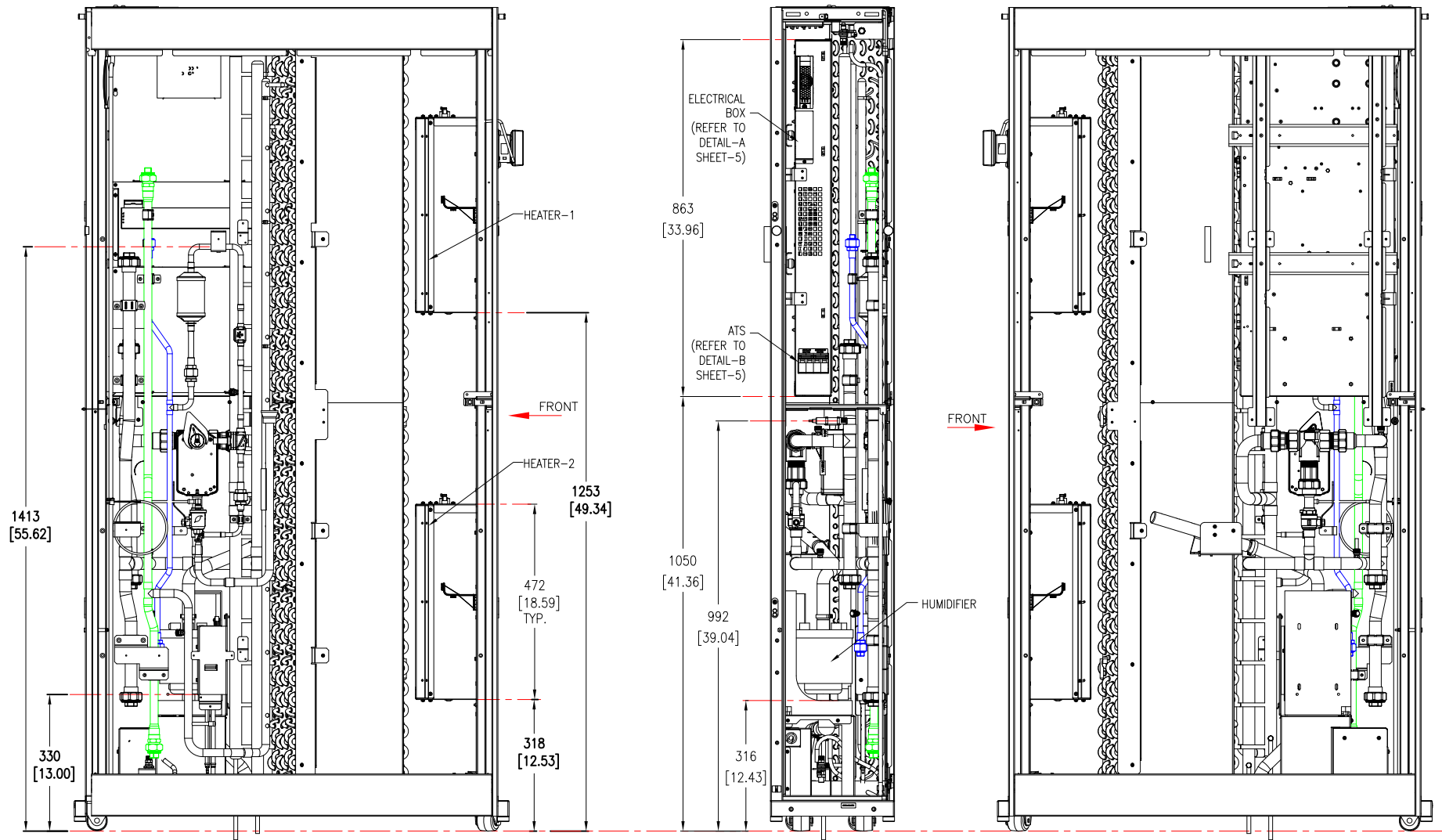
TITLE: InRow DIRECT EXPANSION
InRow DX 300mm 30kW Indoor Unit
DUAL FEED 200-240V, 50/60Hz CE/UL
WITH HUMIDIFIER & REHEAT
INTERNAL ISOMETRIC

PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 6

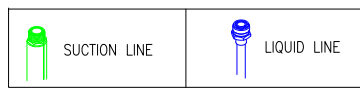
DWG NO: ACRH301P

DRAWN:	BALA	23-JUN-21	FIRST ANGLE PROJECTION
ENGINEER:	H YANG	30-JUN-21	
APPROVED:	H YANG	30-JUN-21	

REV: 1



SIDE VIEW
(INTERNAL)



REAR VIEW
(INTERNAL)

SIDE VIEW
(INTERNAL)

- NOTES:
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 4. SUCTION PIPE SHOWN WITH INSULATION IN THIS SHEET.
 5. SOME STRUCTURAL DETAILS BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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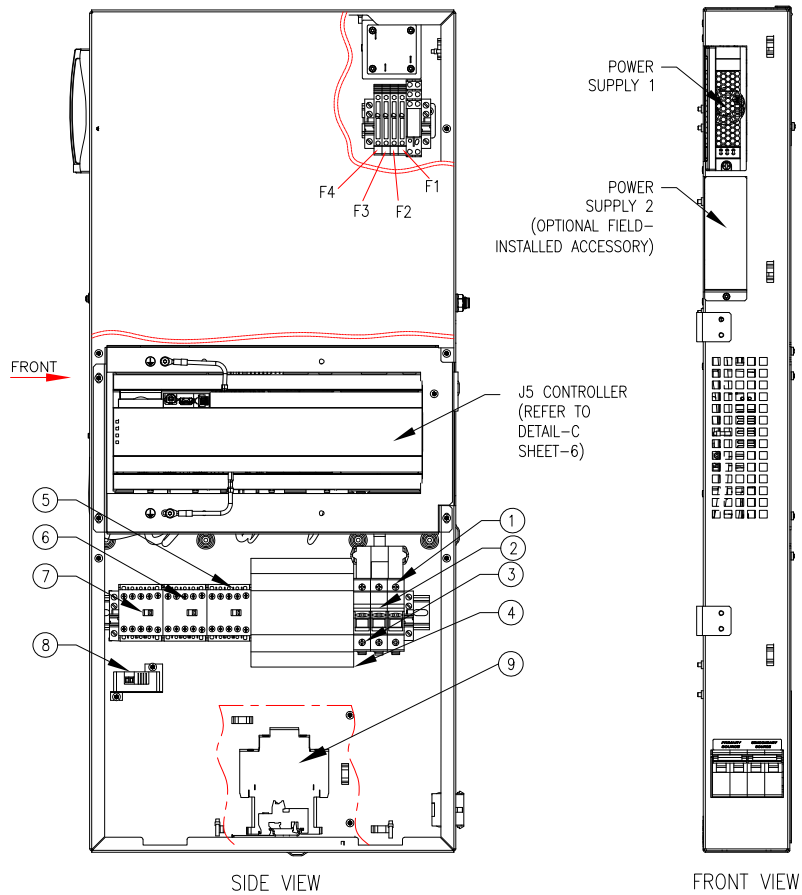


TITLE: InRow DIRECT EXPANSION
InRow DX 300mm 30kW Indoor Unit
DUAL FEED 200-240V, 50/60Hz CE/UL
WITH HUMIDIFIER & REHEAT
INTERNAL VIEWS

PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 6

DWG NO:	ACRH301P		REV:	0
DRAWN:	BALA	23-JUN-21	FIRST	ANGLE
ENGINEER:	H YANG	30-JUN-21	PROJECTION	
APPROVED:	H YANG	30-JUN-21		

DETAIL-A (ELECTRICAL BOX)



1. HUMIDIFIER ELECTRODE FUSE
2. FUSE FOR HEATER-2 (BOTTOM)
3. FUSE FOR HEATER-1 (TOP)
4. HUMIDIFIER CONTROLLER (CPY)
5. HUMIDIFIER ELECTRODE CONTACTOR
6. HEATER 2 CONTACTOR
7. HEATER 1 CONTACTOR
8. HUMIDIFIER ELECTRODE CURRENT SENSOR
9. AUTOMATIC TRANSFER SWITCH (ATS)

- F1. CONDENSATE PUMP FUSE
- F2. 24 VAC SUPPLY TRANSFORMER FUSE
- F3. LIQUID LINE SOLENOID VALVE FUSE
- F4. 24V TRANSFORMER FOR CPY

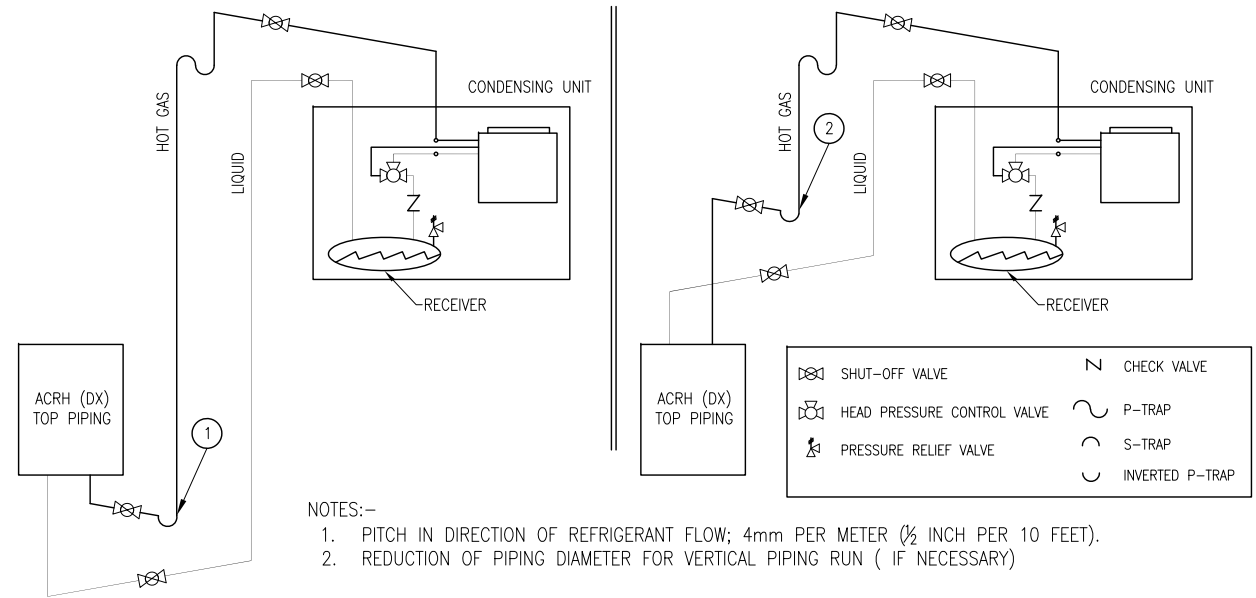
- NOTE:-
1. 200-240V : CONFIGURE THE WIRE LABELED F2-1 TO THE 240-V FUSE.
 2. 100-120V : CONFIGURE THE WIRE LABELED F2-1 TO THE 120-V FUSE.
 3. REFER THE LADDER DIAGRAM INCLUDED WITH THE UNIT FOR MORE INFORMATION.

- COMMON NOTES:
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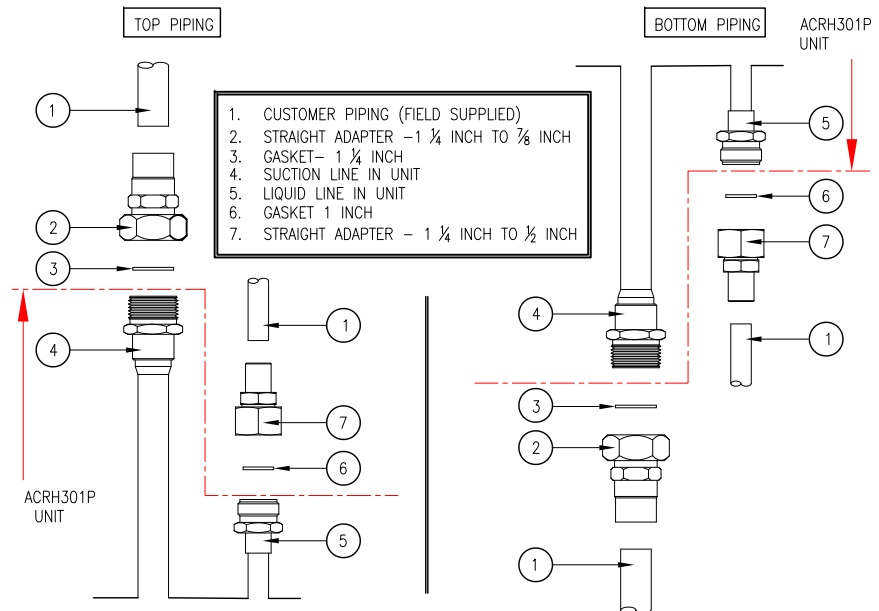
BOTTOM PIPING

REFRIGERATION PIPING DIAGRAM

TOP PIPING



CUSTOMER PIPING CONNECTIONS



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Schneider Electric

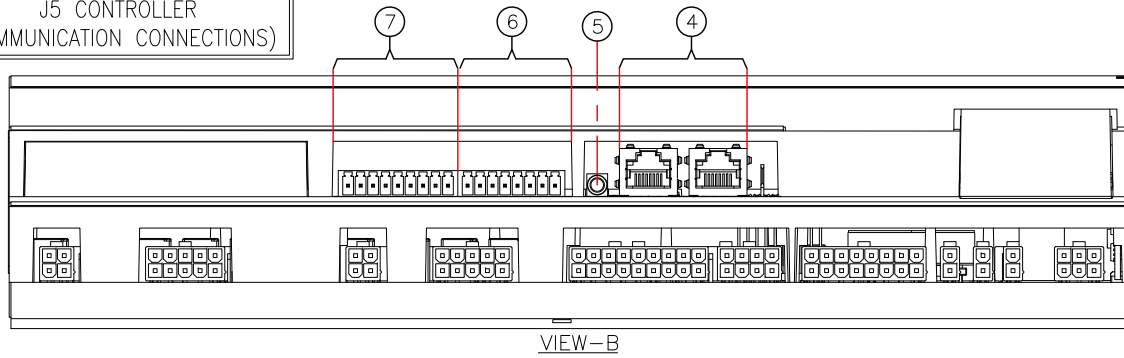
TITLE: InRow DIRECT EXPANSION InRow DX 300mm 30kW Indoor Unit DUAL FEED 200-240V, 50/60Hz CE/UL WITH HUMIDIFIER & REHEAT REFRIGERATION PIPING DIAGRAM

PROJECT: SUBMITTAL DRAWINGS | SHEET 5 OF 6

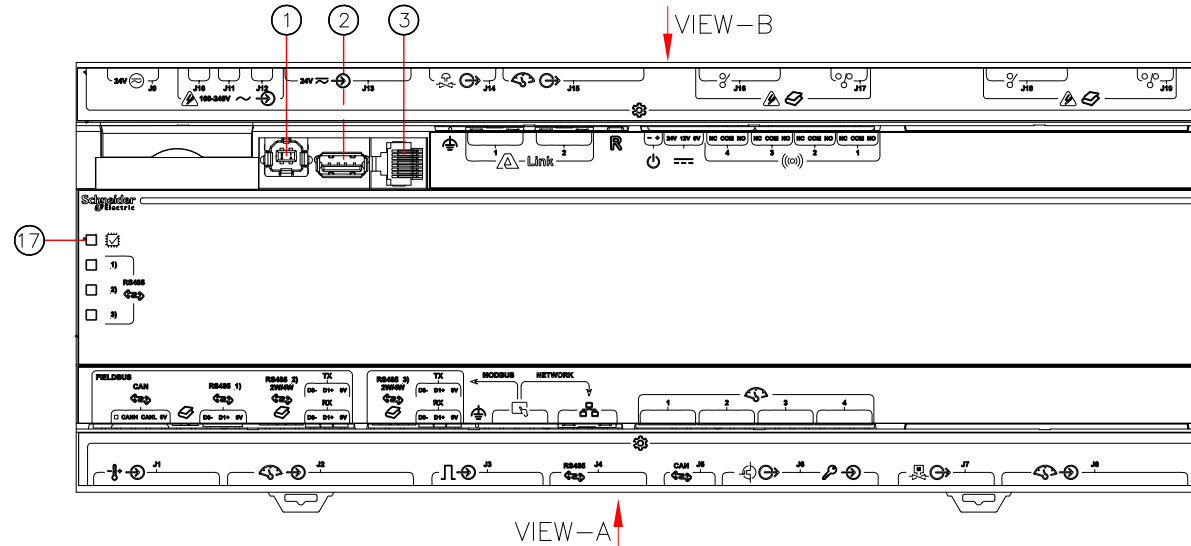
DWG NO: ACRH301P 0

DRAWN:	BALA	23-JUN-21	FIRST ANGLE
ENGINEER:	H YANG	30-JUN-21	PROJECTION
APPROVED:	H YANG	30-JUN-21	

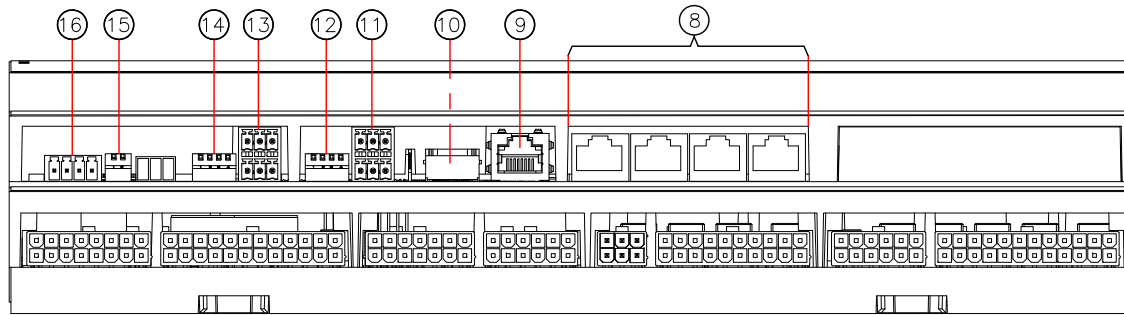
J5 CONTROLLER
(COMMUNICATION CONNECTIONS)



VIEW-B

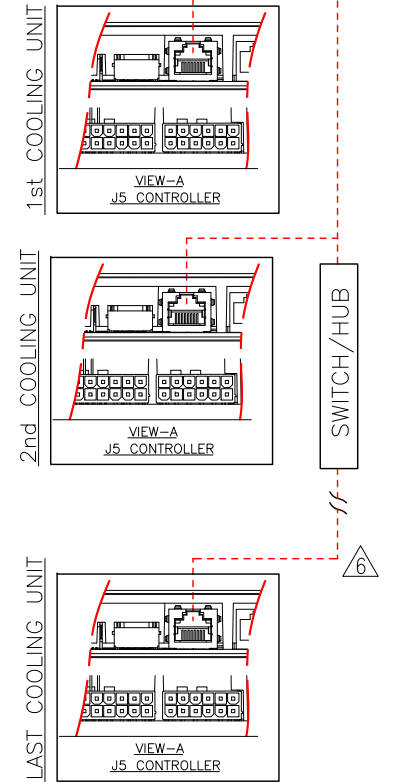


VIEW-A



VIEW-A

J5 CONTROLLER
(NETWORK CONNECTIONS)



1. USB DEVICE PORT
2. USB HOST PORT
3. SERIAL PORT
4. A-LINK PORTS
5. RESET BUTTON
6. OUTPUT RELAY 4/STANDBY INPUT
7. OUTPUT RELAY 1-3
8. UNIVERSAL SENSOR PARTS
9. NETWORK CONNECTION
10. TOUCH SCREEN DISPLAY CONNECTION
11. MODBUS CONNECTION
12. MODBUS CONFIGURATION SWITCHES
13. FIELD BUS MODBUS CONNECTION
14. FIELD BUS MODBUS CONFIGURATION SWITCHES
15. FIELD BUS CANBus CONNECTION
16. FIELD BUS CANBus CONNECTION
17. PROCESSOR STATUS LED

- NOTES:
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. FOR OUTPUT RELAY DETAILS, MODBUS SWITCH CONFIGURATIONS AND STANDBY INPUTS DETAILS, REFER TO INSTALLATION MANUAL.
 4. THE A-LINK BUS CONNECTION ALLOWS A MAXIMUM GROUP OF 20 UNIFLAIR InRow ACRH301P UNITS.
 5. TO ENABLE UNITS TO FUNCTION AS A GROUP, LINK THEM TOGETHER USING A STANDARD PIN-OUT CAT-5 CABLE WITH RJ-45 CONNECTORS. THE A-LINK BUS MUST BE TERMINATED AT THE 1st AND LAST UNIT INSTALLED IN THE GROUP. AN A-LINK TERMINATOR IS SUPPLIED WITH EACH UNIT.
 - △ 6. THE MAXIMUM WIRE LENGTH FOR THE ENTIRE GROUP MUST NOT EXCEED 500 METERS (1640 FEET).
 7. ALL INPUT AND OUTPUT CONNECTIONS SHOULD BE WIRED AS CLASS 2 CIRCUITS.

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InRow DX 300mm 30kW Indoor Unit
DUAL FEED 200-240V, 50/60Hz CE/UL
WITH HUMIDIFIER & REHEAT
J5 CONTROLLER DETAILS

PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 6

DWG NO: ACRH301P REV: 0

DRAWN:	BALA	23-JUN-21	FIRST ANGLE PROJECTION
ENGINEER:	H YANG	30-JUN-21	
APPROVED:	H YANG	30-JUN-21	