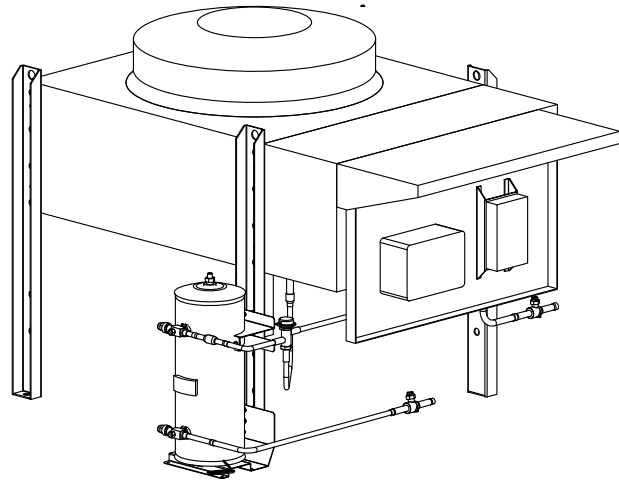
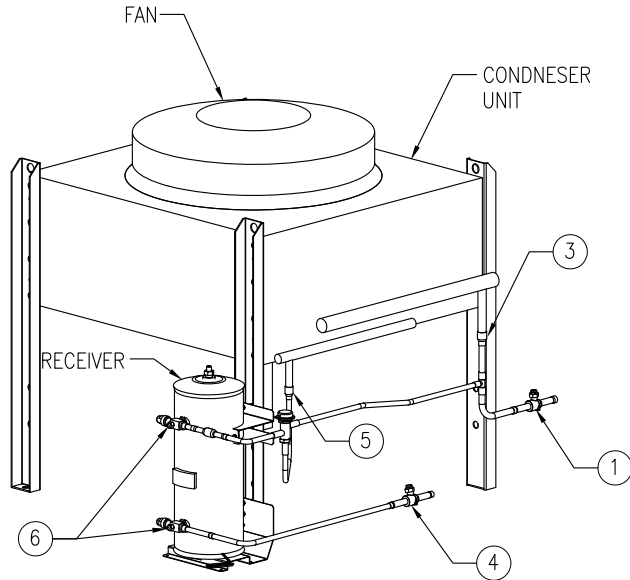


SKU: ACCD75216 AND ACCD75218 DETAILS

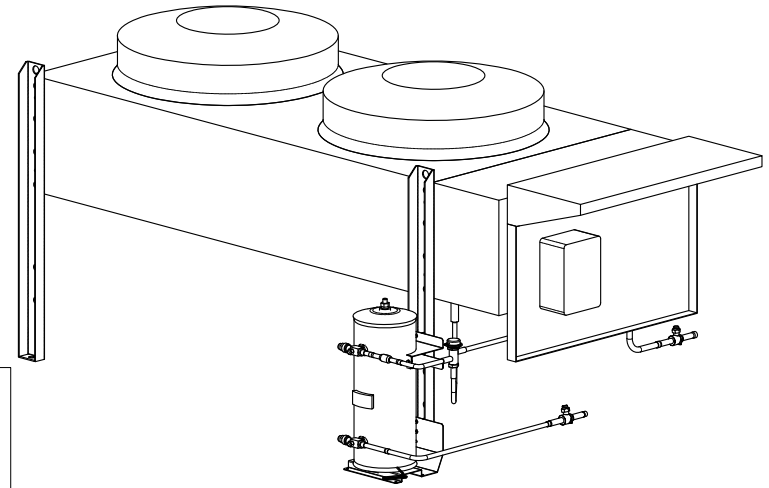


ISOMETRIC VIEW

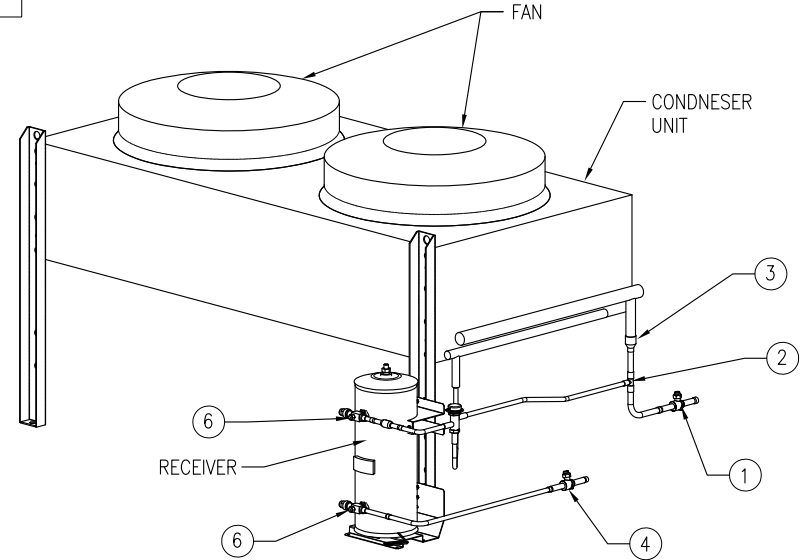


ISOMETRIC VIEW
(ELECTRICAL BOX AND COVER REMOVED)

SKU: ACCD75217 AND ACCD75219 DETAILS



ISOMETRIC VIEW



ISOMETRIC VIEW
(ELECTRICAL BOX AND COVER REMOVED)

- ① 5/8" ODF BALL VALVE
- ② 5/8" X 5/8" X 1/2" TEE
- ③ 28MM X 5/8" COUPLING OR SWAGE COPPER TUBE TO METRIC COUPLING
- ④ 1/2" ODF BALL VALVE
- ⑤ 22MM X 1/2" COUPLING OR SWAGE COPPER TUBE TO METRIC COUPLING
- ⑥ VALVE ROTO 1.00"-14 NS 1/2" SWT

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS.
3. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL INFORMATION.
4. RECEIVER PICTURED NOT PROVIDED AND MUST BE ORDERED SEPARATELY.

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TITLE: InfraStruXure InRow RD
CONDENSER
SINGLE CIRCUIT, 400V/220V
3PH/1PH, 50Hz
CONDENSER DETAILS-1

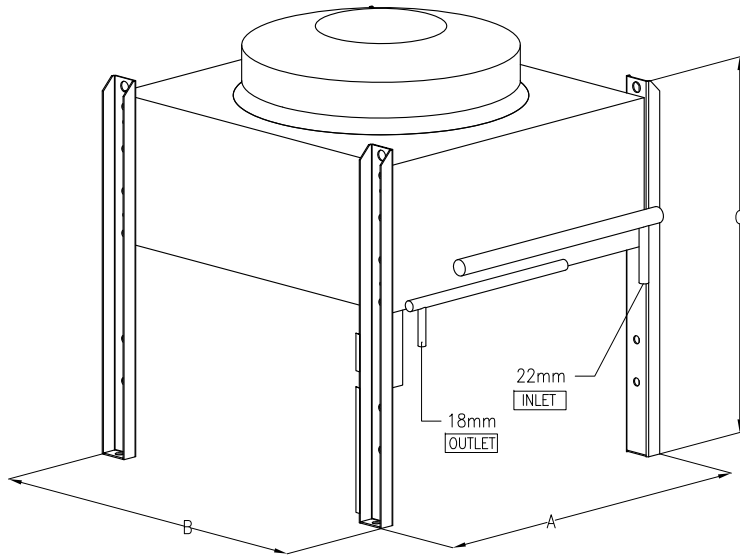
PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 7

DWG NO: ACCD75216-75219 REV. 2

| | |
|----------------------------|-----------|
| DRAWN: B ZAHN | 26-MAY-15 |
| ENGINEER: M FIACCO/M BROWN | 26-MAY-15 |
| APPROVED: N SCHWEISSGUTH | 26-MAY-15 |

FIRST ANGLE PROJECTION

SKU: ACCD75216 AND ACCD75218 DETAILS



DIMETRIC VIEW
(SHOWN WITHOUT RECEIVER AND PIPING)

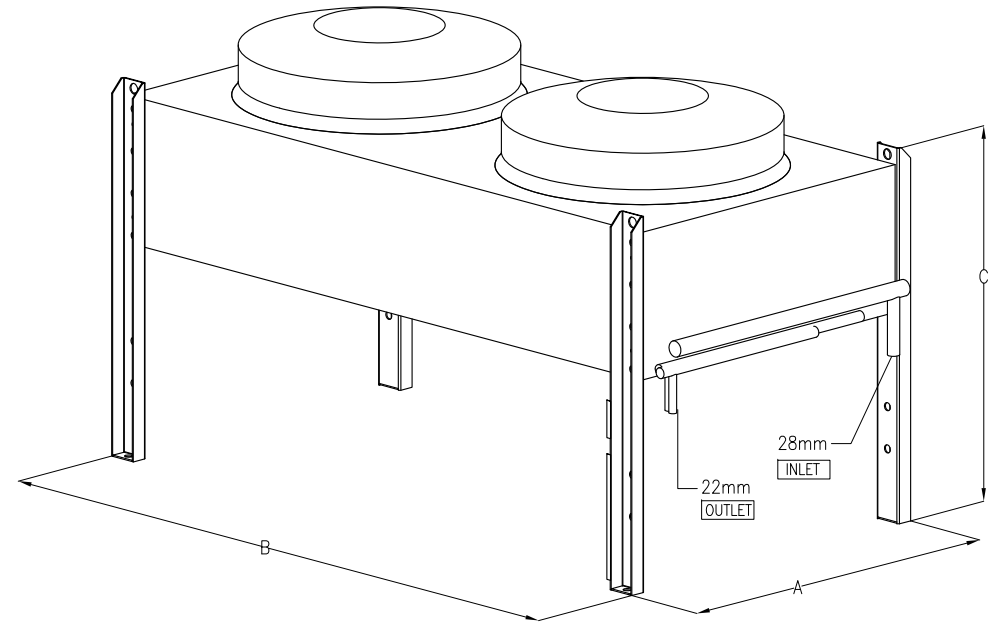
| SKU | A | B | C |
|-----------|-----|-----|-----|
| ACCD75216 | 900 | 900 | 890 |
| ACCD75218 | | | |

SPECIFICATION

| SKU | Voltage | FLA | MODEL | Amb. Temp. | Air Qty. l/s | Weight | Fan Qty. | Internal Volume | Connection size | |
|-----------|-------------------|------|---------|------------|--------------|--------|----------|-----------------|-----------------|--------|
| | | | | | | | | | Hotgas | Liquid |
| ACCD75216 | 380-415V/3Ph/50Hz | 1.35 | KH1150A | 35°C/40°C | 2140 | 48 kg | 1x1 | 3 Liters | 22mm | 18mm |
| ACCD75218 | 220-240V/1PH/50Hz | 3.0 | | | | | | | | |

FLA = FULL LOAD AMPS

SKU: ACCD75217 AND ACCD75219 DETAILS



DIMETRIC VIEW
(SHOWN WITHOUT RECEIVER AND PIPING)

| SKU | A | B | C |
|-----------|-----|------|-----|
| ACCD75217 | 900 | 1680 | 890 |
| ACCD75219 | | | |

SPECIFICATION

| SKU | Voltage | FLA | MODEL | Amb. Temp. | Air flow l/s | Weight | Fan Qty. | Internal Volume | Connection size | |
|-----------|-------------------|-----|---------|------------|--------------|--------|----------|-----------------|-----------------|--------|
| | | | | | | | | | Hotgas | Liquid |
| ACCD75217 | 380-415V/3Ph/50Hz | 2.7 | KH1250A | 46°C | 4280 | 89 kg | 1x2 | 7 Litres | 28mm | 22mm |
| ACCD75219 | 220-240V/1PH/50Hz | 6.0 | | | | | | | | |

FLA = FULL LOAD AMPS

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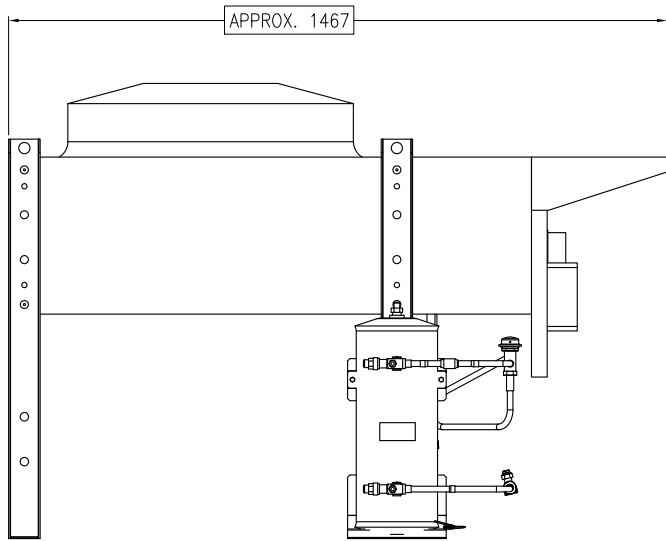
TITLE: InfraStruXure InRow RD CONDENSER SINGLE CIRCUIT, 400V/220V 3PH/1PH, 50Hz CONDENSER DETAILS-2

PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 7

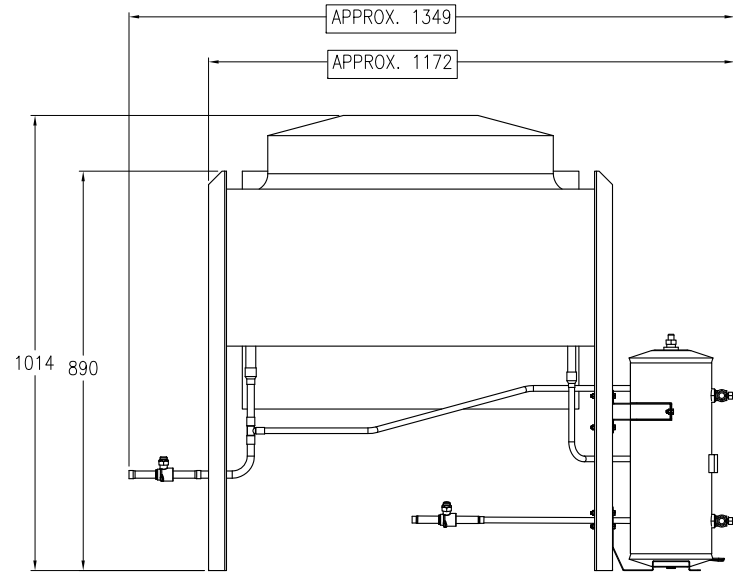
DWG NO: ACCD75216-75219 REV. 2

| | |
|----------------------------|-----------|
| DRAWN: B ZAHN/KN | 26-MAY-15 |
| ENGINEER: M FIACCO/M BROWN | 26-MAY-15 |
| APPROVED: N SCHWEISSGUTH | 26-MAY-15 |

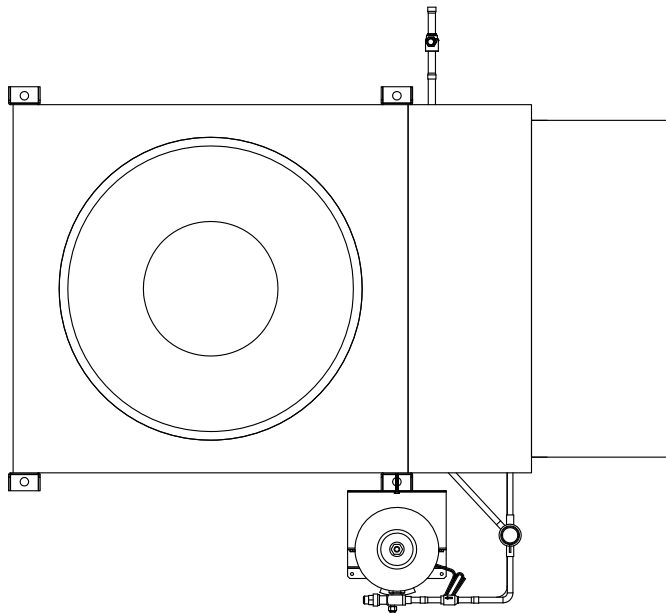
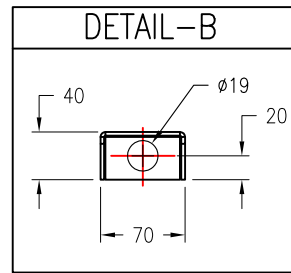
FIRST ANGLE PROJECTION



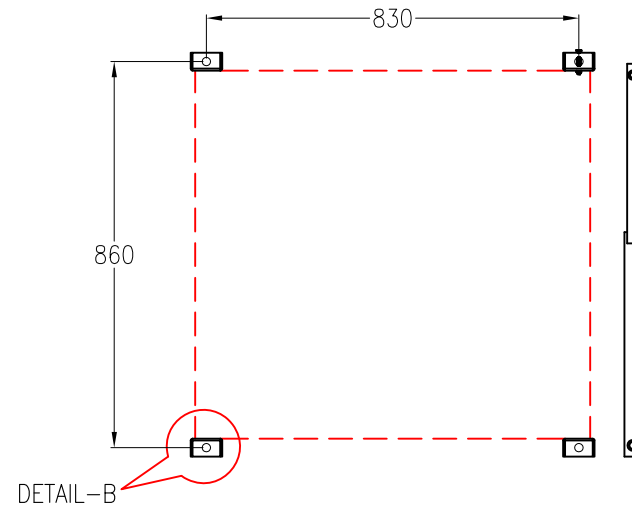
FRONT VIEW



LEFT SIDE VIEW



TOP VIEW



NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL INFORMATION.
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4. RECEIVER PICTURED NOT PROVIDED AND MUST BE ORDERED SEPARATELY.

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TITLE: InfraStruXure InRow RD
CONDENSER (SINGLE FAN)
400V, 3PH, 50Hz
GENERAL MECHANICAL DETAIL-1

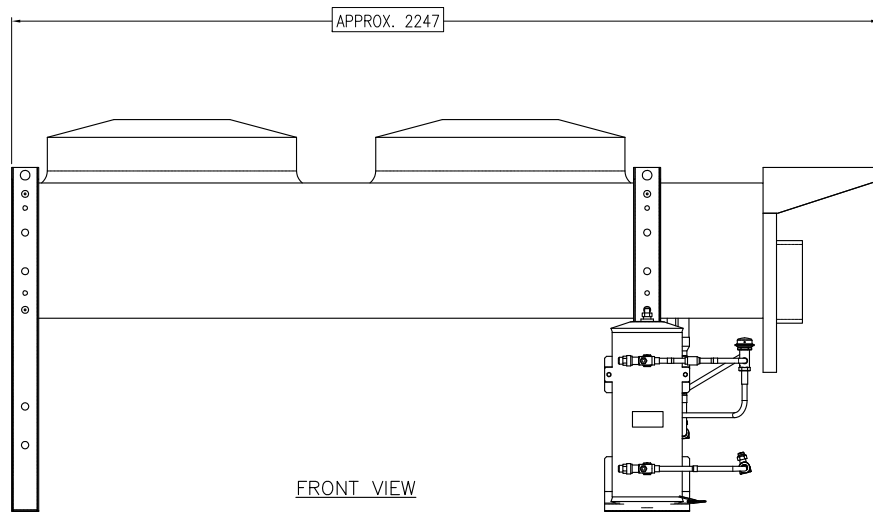
PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 7

DWG NO: ACCD75216-75219

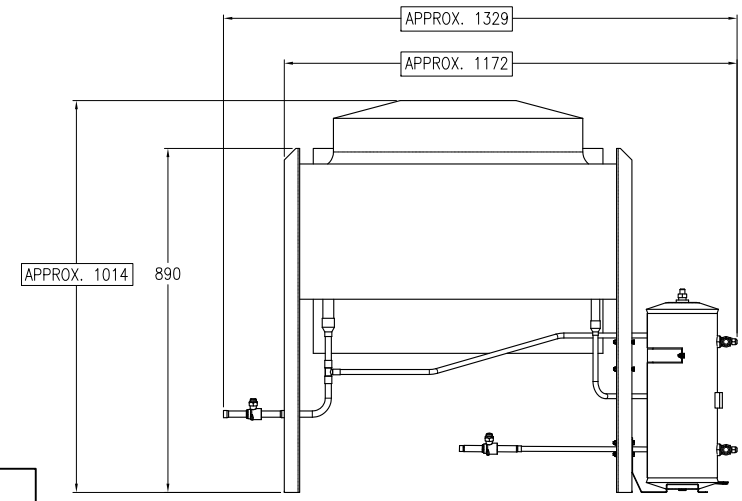
| | |
|----------------------------|-----------|
| DRAWN: B ZAHN | 26-MAY-15 |
| ENGINEER: M FIACCO/M BROWN | 26-MAY-15 |
| APPROVED: N SCHWEISSGUTH | 26-MAY-15 |

REV. 2

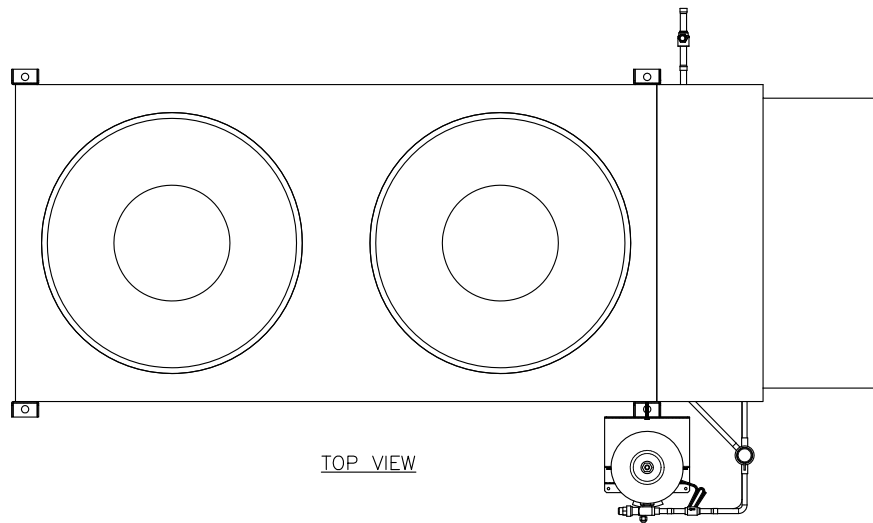
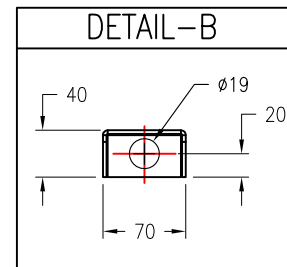
FIRST ANGLE PROJECTION



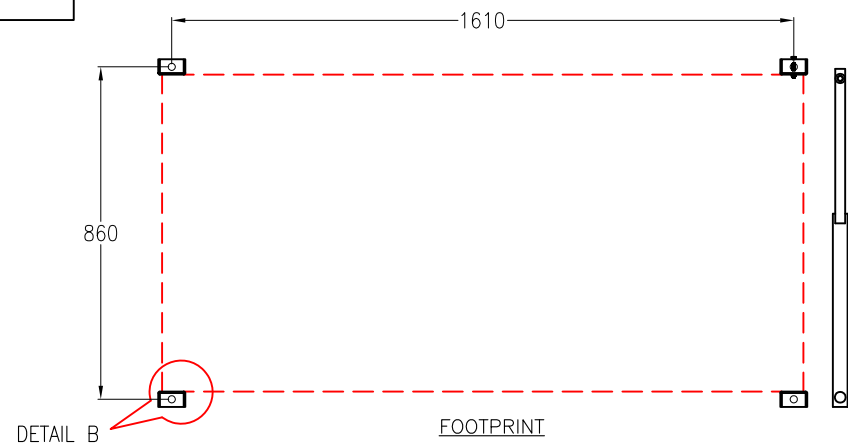
FRONT VIEW



LEFT SIDE VIEW



TOP VIEW



FOOTPRINT

NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL INFORMATION.
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4. RECEIVER PICTURED NOT PROVIDED AND MUST BE ORDERED SEPARATELY.

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TITLE: InfraStruXure InRow R
CONDENSER (DUAL FANS)
400V 3PH 50Hz
GENERAL MECHANICAL DETAIL-2

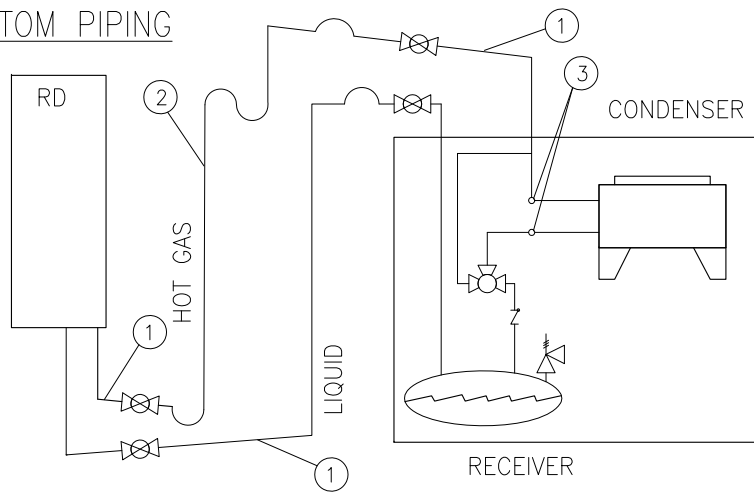
DWG NO: ACCD75216-75219

REV. 2

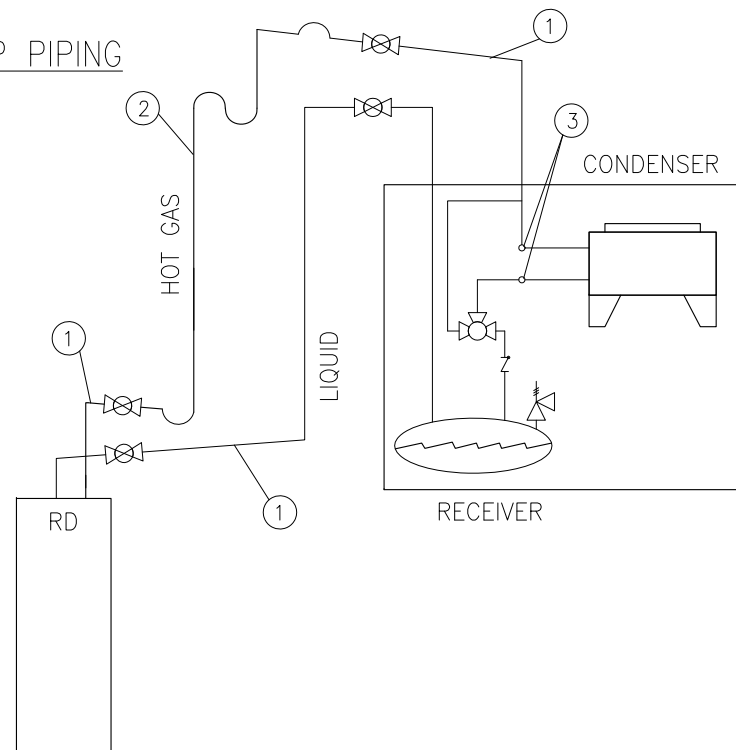
| | | |
|-----------|------------------|-----------|
| DRAWN: | B ZAHN | 26-MAY-15 |
| ENGINEER: | M FIACCO/M BROWN | 26-MAY-15 |
| APPROVED: | N SCHWEISSGUTH | 26-MAY-15 |

FIRST ANGLE PROJECTION

BOTTOM PIPING



TOP PIPING



- | | |
|--|-------------------------|
| ① Pitch in direction of refrigerant flow, 4mm per m (1/2 in per 10 ft) | ↗ Check valve |
| ② Reduction of piping diameter, for vertical run (if necessary) | ⌒ P-Trap |
| ③ Schrader Valve | ⌒ S-Trap |
| ⊗ Shutoff valve | ⌒ Inverted Trap |
| ⊕ Head pressure control valve | ⌒ Pressure relief valve |

Charging Table

| Condenser SKU | Selected Ambient Temperature in °F (°C) | Condenser Summer Charge (lb) | Condenser Flooded Charge (lb) For Different Minimum Outdoor Ambient Temperatures | | | | |
|----------------------------------|---|------------------------------|--|---------------|---------------|-----------------|-----------------|
| | | | 4° C (40° F) | -7° C (20° F) | -18° C (0° F) | -29° C (-20° F) | -40° C (-40° F) |
| ACCD75216 & ACCD75218 | 95 - 105 (35 - 40) | 3 | 6.8 | 7.2 | 7.4 | 7.6 | 7.7 |
| ACCD75217 & ACCD75219 | 115 (46) | 5 | 13.5 | 14.4 | 14.8 | 15.2 | 15.5 |

Total Charge - RD Unit Charge + Condenser Summer Charge + Condenser Flooded Charge (for minimum possible ambient temperature) + Liquid R410A in liquid pipe

RD Unit Charge is 1.6 kg (3.5 lbs)

Density of liquid R410a at 105° F 260 psig is 61.0 lbm/ft³

Cross sectional area for 1/2 inch OD ACR pipe is 0.0010554 ft²

R410A in 1/2 OD liquid line - Area x Length in ft x density - 0.0010554 (ft²) x L (ft) x 61.0 (lbm/ft³)

Liquid line charge for 1/2 inch OD ACR copper tube is 0.095 kg/m (0.0644 lb/ft)

Cross sectional area for 5/8 inch OD ACR pipe is 0.001619 ft²

R410A in 5/8 OD liquid line - Area x Length in ft x density - 0.001619 (ft²) x L (ft) x 61.0 (lbm/ft³)

Liquid line charge for 5/8 inch OD ACR copper tube is 0.146 kg/m (0.099 lb/ft)

Example: Calculate total R410A charge for FCB5, 25 ft long 1/2 in OD liquid piping and minimum outdoor design temperature is 20° F.

Total R410A charge = 3.5 + 4.9 + 13.6 + (25 (0.0644)) = 23.6 lb.

NOTES:

1. INSTALLATION MUST COMPLY WITH NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL INFORMATION AND INSTALLATION.

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TITLE: InfraStruXure InRow RD CONDENSER
SINGLE CIRCUIT, 400V/220V
3PH/1PH, 50Hz
PIPING DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 7

DWG NO: ACCD75216-75219

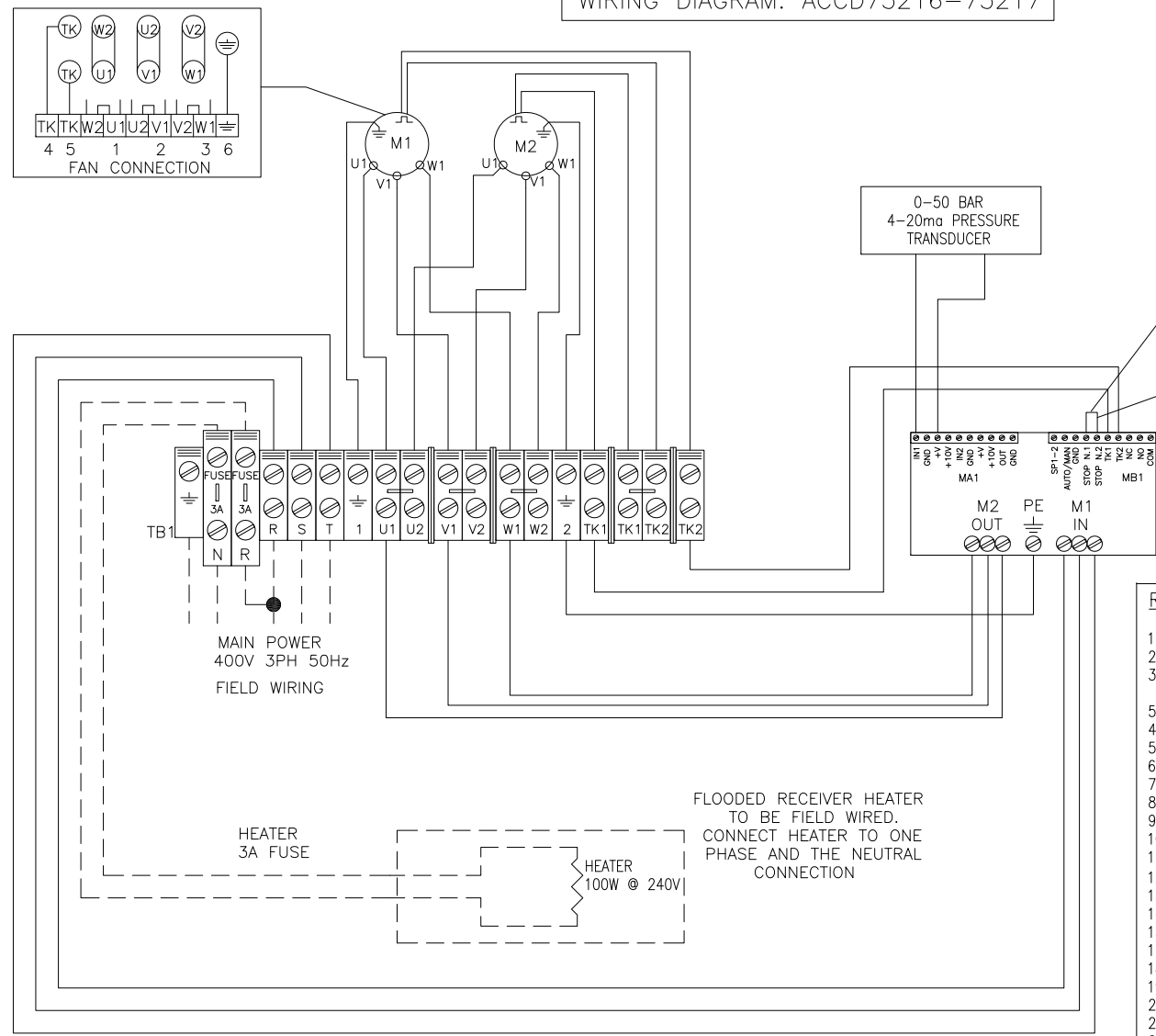
DRAWN: B ZAHN 02-NOV-09
ENGINEER: D TUTUNOGLU/M BROWN 02-NOV-09

APPROVED: A KUKLA/S WAGH 02-NOV-09

REV. 1

FIRST ANGLE PROJECTION

WIRING DIAGRAM: ACCD75216-75217



LEGEND:
 TB1 - TERMINAL BLOCK
 M1 - FAN MOTOR M2 FAN MOTOR
 (MODEL DEPENDENT)
 FB1 - HEATER FUSE BLOCK
 FIELD WIRING INDICATED BY DASHED LINE - - - -
 FACTORY WIRING INDICATED BY SOLID LINE

Jumper wire is factory installed for automatic control.
OPTIONAL:
 For unit control, remove jumper and connect to InRow ACRD OHE Interface connections J400-1 (COM) and J400-2 (NO). This provides a dry contact closure when the unit is in the "On" configuration.

FAN SPEED CONTROLLER RGF3XX

RGF3XX FAN SPEED CONTROLLER SET POINTS

1. *P1 SET TO m, FAN SPEED SENSITIVITY SLOW.
2. P2 SET TO M, PRESSURE RANGE FOR FAN TO CHANGE FROM MIN. TO MAX SPEED.
3. P3 SET TO c, THIS CONFIGURES P3 TO WORK OFF OF THE RGPB10640 CONTROL CARD. SP1, SW1 ON THE RGPB10640 CONTROL CARD SET TO SW2 SET TO 8
4. *P4 SET TO M, MAXIMUM FAN SPEED.
5. P5 SET TO ~ 8 O'CLOCK POSITION ON DIAL, 20% FAN SPEED AFTER STARTUP.
6. P6 SET TO ~ 7 O'CLOCK POSITION ON DIAL, 25% FAN SPEED AT STARTUP.
7. P7 NOT USED.
8. *J1 SET TO 1, SELECTS 4-20mA INPUT.
9. J2 SET TO 2, SELECTS P3 SETPOINT TO BE CONTROLLED BY RFPB10640 CONTROL CARD.
10. *J3 SET TO 2, SELECTS SP1 ON P3 TO CORRESPOND TO MAXIMUM FAN SPEED.
11. *J4 SET TO 2, SELECTS TYPE OF OUTPUT ON MA PINS 9 AND 10. WORKS WITH J6.
12. *J5 SET TO 2, SELECTS THE PROPORTIONAL BAND OF THE PRESSURE SENSOR (.4 - 4mA).
13. *J6 SET TO 1, SETS MA PINS 9 AND 10 TO 0-10V OUTPUT PROPORTIONAL TO POWER OUTPUT.
14. *J7 SET TO 2, SELECTS THE SIZE IN % C TO BE DISPLAYED ON THE PORTABLE UNIT.
15. *J8 REMOVED, SETS CONTROLLER FOR DIRECT ACTING.
16. *J9 ON, SETS CONTROLLER FOR DIRECT ACTING.
18. *J10 SET TO 2, SETS RFG CONTROLLER FOR MASTER MODE.
19. *J11 SET TO 2, SELECTS THE GREATER VALUE OF SP1 AND SP2.
20. *J12 SET TO 2, SELECTS THE PORTABLE UNIT TO USE 4-20mA INPUT.
21. *J13 SET TO 2, SELECTS AUTOMATIC RESTART AFTER A THERMAL OVERLOAD.
22. *J14 SET TO 1, ENABLES ALARM RELAY.
23. J15 SET TO 2, ENABLES THERMAL PROTECTION.
24. *J16 SET TO 1, SELECTS 4-20mA INPUT ON CH1.
25. *J17 SET TO 1, SELECTS 4-20mA INPUT ON CH2.

* Default Settings

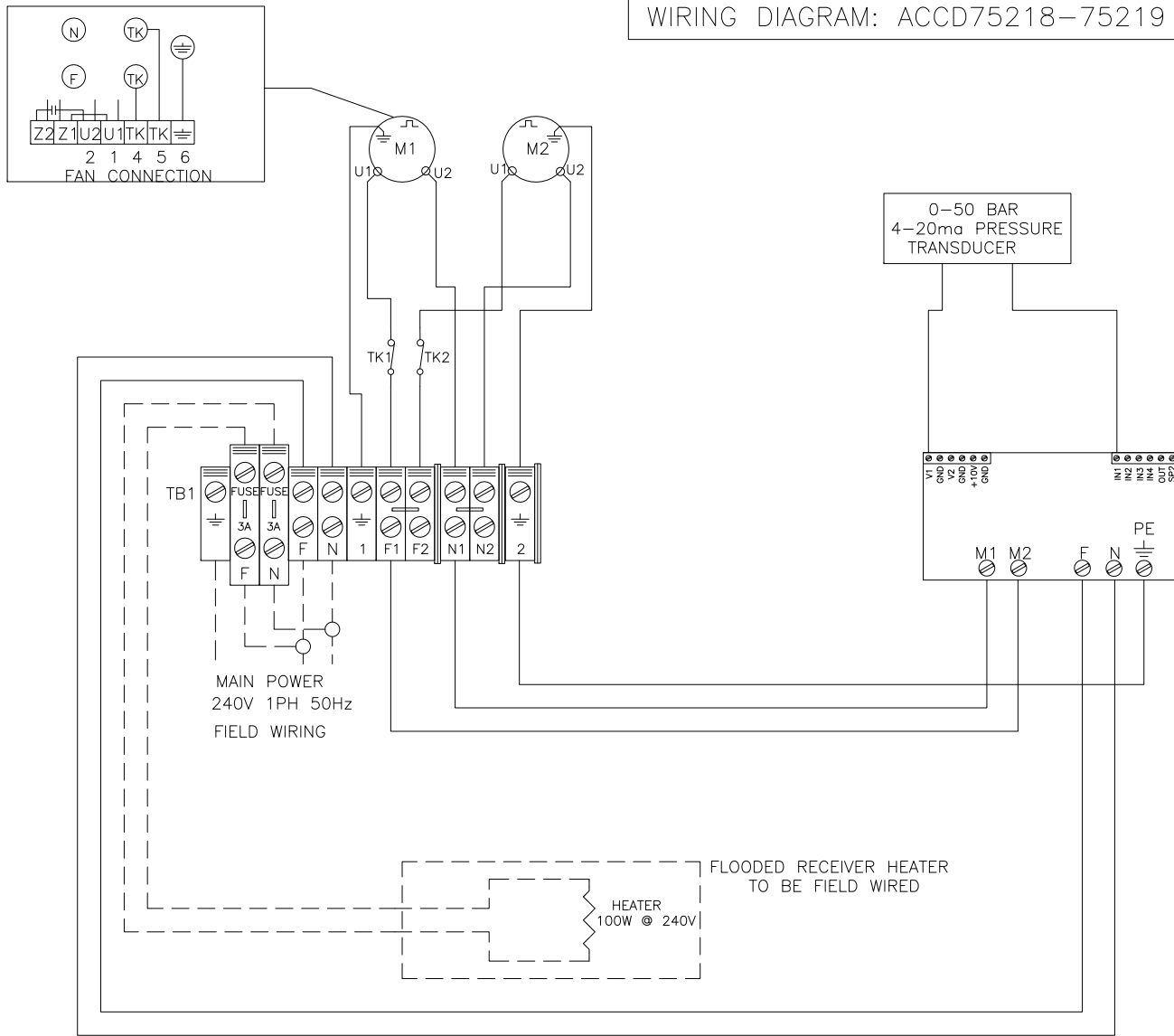
- NOTES:**
1. INSTALLATION MUST COMPLY WITH NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
 2. UNIT MUST BE GROUNDED
 3. TO BE FIELD FUSED, REFER TO UNIT NAMEPLATE FOR VOLTAGE, CURRENT REQUIREMENTS.
 4. ALL MOTORS ARE INHERENTLY PROTECTED.
 5. USE MIN. 90 C MTW WIRE FOR FIELD CONNECTION.
 6. SET RGF3XX ELECTRONIC FAN SPEED CONTROL TO START AT 360psig (25 Bar), 90psig (6.2 Bar) THROTTLING. FACTORY TO SET RANGE USING NITROGEN OR DRY AIR. UNIT IS TO BE CONFIGURED FOR DIRECT ACTING CONTROL.
 7. USE COPPER CONDUCTORS ONLY.

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| | | |
|--|---|------------------------|
| TITLE: InfraStruXure InRow RD CONDENSER SINGLE CIRCUIT, 400V/220V 3PH/1PH, 50Hz WIRING DIAGRAM-1 | DWG NO: ACCD75216-75219 | REV. 1 |
| PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 7 | DRAWN: B ZAHN 02-NOV-09 | FIRST ANGLE PROJECTION |
| | ENGINEER: D TUTUNOGLU/M BROWN 02-NOV-09 | |
| | APPROVED: A KUKLA/S WAGH 02-NOV-09 | |

WIRING DIAGRAM: ACCD75218-75219



LEGEND:
 TB1 TERMINAL BLOCK
 M1 FAN MOTOR
 M2 FAN MOTOR (MODEL DEPENDENT)
 TK1 THERMAL CUTOUT
 TK2 THERMAL CUTOUT (MODEL DEPENDENT)
 FIELD WIRING INDICATED BY DASHED LINE - - - -
 FACTORY WIRING INDICATED BY SOLID LINE _____

ESY-1 FAN SPEED CONTROLLER SET POINTS
 1. MAX-out SET TO POSITION 10.
 2. CUT-OFF (MIN-out) SET TO POSITION 2.
 3. SP SET TO POSITION 9.
 4. SP ADJ. SET TO +1.
 5. J1 SET TO 2. DIRECT ACTING PRESSURE/SPEED CONTROL.
 6. J2 SET TO 1.
 7. J3 SET TO 1.
 8. J4 SET TO 2.

- NOTES:
1. INSTALLATION MUST COMPLY WITH NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
 2. UNIT MUST BE GROUNDED
 3. TO BE FIELD FUSED, REFER TO UNIT NAMEPLATE FOR VOLTAGE, CURRENT REQUIREMENTS.
 4. ALL MOTORS ARE INHERENTLY PROTECTED.
 5. USE MIN. 90 C MTW WIRE FOR FIELD CONNECTION.
 6. SET ESY-1 ELECTRONIC FAN SPEED CONTROL TO
 START AT 360psig (25 Bar), 90psig (6.2 Bar) THROTTLING.
 FACTORY TO SET RANGE USING NITROGEN OR DRY AIR.
 UNIT IS TO BE CONFIGURED FOR DIRECT ACTING CONTROL.
 7. USE COPPER CONDUCTORS ONLY.

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TITLE: InfraStruXure InRow RD
 CONDENSER
 SINGLE CIRCUIT, 400V/220V
 3PH/1PH, 50Hz
 WIRING DIAGRAM-2
 PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 7

DWG NO: ACCD75216-75219 REV. 1
 DRAWN: B ZAHN 02-NOV-09
 ENGINEER: D TUTUNOGLU/M BROWN 02-NOV-09
 APPROVED: A KUKLA/S WAGH 02-NOV-09
 FIRST ANGLE PROJECTION