NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. CONSULT THE InRow--RD TECHNICAL DATA MANUAL FOR CAPACITY AND PERFORMANCE DATA.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS] UNLESS OTHERWISE SPECIFIED.
4. PIPING CONFIGURATION — TOP OR BOTTOM OF UNIT
5. FRONT AND REAR ACCESS IS REQUIRED FOR SERVICE.
6. MAXIMUM WEIGHT OF UNIT IS 404 LBS [183 KG.]
7. THE AIR COOLED EQUIPMENT HAS BEEN DE-HYDRATED AT THE FACTORY AND SHIPPED WITH HOLDING CHARGE OF 30 PSIG [207kPa] OF NITROGEN.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS] UNLESS OTHERWISE SPECIFIED.
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)
WHICH IS INCLUDED IN THE SHIP LOOSE PARTS KIT.
ATTACH THE BRACKETS TO THE UNIT AS SHOWN.
USE CODE COMPLIANT FASTENERS TO SECURE THE UNIT TO THE FLOOR.

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

NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. REFER TO INSTALLATION MANUALS FOR DETAILED INSTRUCTION ON INSTALLING THIS EQUIPMENT.
3. REFER TO "InfraStruXure InRow-RD SEISMIC INSTALLATION GUIDE" FOR SEISMIC ANCHORING GUIDELINES.
4. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SPECIFIED.

TOP VIEW
(BOLT DOWN BRACKETS
MOUNTING HOLE LOCATIONS)
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. UNIT IS SHIPPED CONFIGURED FOR TOP ENTRY.
4. SOME MECHANICAL COMPONENTS HAVE BEEN OMITTED FOR PURPOSE OF CLARITY.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. UNIT IS SHIPPED CONFIGURED FOR TOP ENTRY.
4. SOME MECHANICAL COMPONENTS HAVE BEEN OMITTED FOR PURPOSE OF CLARITY.
5. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS] UNLESS OTHERWISE SPECIFIED.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS] UNLESS OTHERWISE SPECIFIED.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS] UNLESS OTHERWISE SPECIFIED.
4. TEFLOM O- RING (SUPPLIED) REQUIRED WITH BOTH CONFIGURATION.
1. Pitch in direction of refrigerant flow, 1/2 in per 10 ft (4mm per m)
2. Reduction of piping diameter, for vertical run (if necessary)
3. Schrader Valve
4. Shutoff valve
5. Head pressure control valve

RECOMMENDED LINE SIZES

<table>
<thead>
<tr>
<th>EQUIVALENT LENGTH m (m)</th>
<th>LINE TYPE</th>
<th>ACRD100, ACRD101(CD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 (50)</td>
<td>DISCHARGE LINE (HORIZONTAL/VERTICAL DOWN)</td>
<td>5/8 ACR</td>
</tr>
<tr>
<td></td>
<td>DISCHARGE LINE (VERTICAL RISER)</td>
<td>1/2 ACR</td>
</tr>
<tr>
<td></td>
<td>LIQUID LINE</td>
<td>1/2 ACR</td>
</tr>
<tr>
<td>30 (100)</td>
<td>DISCHARGE LINE (HORIZONTAL/VERTICAL DOWN)</td>
<td>5/8 ACR</td>
</tr>
<tr>
<td></td>
<td>DISCHARGE LINE (VERTICAL RISER)</td>
<td>1/2 ACR</td>
</tr>
<tr>
<td></td>
<td>LIQUID LINE</td>
<td>1/2 ACR</td>
</tr>
<tr>
<td>46 (150)</td>
<td>DISCHARGE LINE (HORIZONTAL/VERTICAL DOWN)</td>
<td>5/8 ACR</td>
</tr>
<tr>
<td></td>
<td>DISCHARGE LINE (VERTICAL RISER)</td>
<td>1/2 ACR</td>
</tr>
<tr>
<td></td>
<td>LIQUID LINE</td>
<td>1/2 ACR</td>
</tr>
</tbody>
</table>

NOTE:
1. ALL REFRIGERANT PIPES MUST BE STRAIGHT ACR TO HAVE 555 PSI GD OR ABOVE MMP.
2. THE EQUIVALENT LENGTH OF 1/2" OD DISCHARGE LINE PIPE SHOULD BE KEPT TO LESS THAN 18 M (60 ft).
3. THE TOTAL EQUIVALENT LENGTH OF DISCHARGE LINE SHOULD BE LESS THAN 46 M (150 ft) TO PREVENT AN EXCESSIVE HOT GAS PRESSURE DROP WHICH CAN INCREASE THE DISCHARGE PRESSURE DURING HOT SUMMER DAYS.
4. TO HAVE A TOTAL EQUIVALENT LENGTH OF 61 M (200 ft), THE LOAD MUST BE REDUCED BY 5%.

TYPE OF FITTING OR VALVE-EQUIVALENT LENGTH OF PIPE IN m (m):

<table>
<thead>
<tr>
<th>ACR PIPE SIZE OD</th>
<th>GATE VALVE</th>
<th>STANDARD ELBOW 90°</th>
<th>REDUCED COUPLING</th>
<th>SIZE OUTLET</th>
<th>ANGLE VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>0.18 (0.6)</td>
<td>0.43 (1.4)</td>
<td>0.43 (1.4)</td>
<td>0.82 (2.7)</td>
<td>1.83 (6.0)</td>
</tr>
<tr>
<td>5/8</td>
<td>0.21 (0.7)</td>
<td>0.49 (1.6)</td>
<td>0.49 (1.6)</td>
<td>0.91 (3.0)</td>
<td>2.13 (7.0)</td>
</tr>
</tbody>
</table>

NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION GUIDE.
3. ROUTE PIPING THROUGH THE TOP OR BOTTOM OF THE InRow-RD.
4. ALL LINES ARE TYPE L ACR COPPER TUBING.
5. S-TRAP THE VERTICAL DISCHARGE LINE EVERY 6m (20 ft) TO ENSURE PROPER OIL RETURN.
6. CHANGE THE SIZE OF THE PIPE AFTER THE P-TRAP, REFER REFRIGERATION PIPING DIAGRAM.
7. MAXIMUM PIPING RUN IS 61m (200 ft) EQUIVALENT LENGTH SIZE THE PIPING PURSUANT TO ACCEPTED REFRIGERATION PRACTICE.
8. DO NOT INSTALL THE AIR-COOLED CONDENSER BELOW THE InRow-RD. THE CONDENSER MUST BE POSITIONED ABOVE OR SAME LEVEL AS THE InRow-RD TO ENSURE PROPER FUNCTION.
9. WHEN BRAZING FIELD-INSTALLED COPPER REFRIGERATION LINES, USE A NITROGEN PURGE TO MINIMIZE CONTAMINATION OF THE REFRIGERATION SYSTEM DURING BRAZING PROCESS.
POWER CONNECTIONS

<table>
<thead>
<tr>
<th>SKU</th>
<th>MCA</th>
<th>MOP</th>
<th>FLA</th>
<th>COMRESSOR</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRD100</td>
<td></td>
<td></td>
<td></td>
<td>LRA 87.5</td>
<td>4.6</td>
</tr>
<tr>
<td>208–240, 60Hz</td>
<td>25</td>
<td>40</td>
<td>N/A</td>
<td>RLA 16.0</td>
<td></td>
</tr>
<tr>
<td>ACRD101</td>
<td></td>
<td></td>
<td></td>
<td>LRA 97.0</td>
<td>4.4</td>
</tr>
<tr>
<td>220–240, 50Hz</td>
<td>N/A</td>
<td>N/A</td>
<td>21</td>
<td>RLA 16.3</td>
<td></td>
</tr>
</tbody>
</table>

ABOVE DATA IS BASED ON MAXIMUM OPERATING CONDITIONS.

MCA = MINIMUM CIRCUIT AMPACITY
MOP = MAXIMUM OVERCURRENT PROTECTION
FLA = FULL LOAD AMPS
LRA = LOCKED ROTOR AMPS
RLA = RATED LOAD AMPS

PIPING CONNECTIONS

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>TYPE</th>
<th>ACRD100–101</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFRIGERANT DISCHARGE</td>
<td>1–IN ROTOLOCK *</td>
<td>1/2–IN ODF</td>
</tr>
<tr>
<td>REFRIGERANT LIQUID</td>
<td>1–IN ROTOLOCK *</td>
<td>1/2–IN ODF</td>
</tr>
<tr>
<td>CONDENSATE DRAIN</td>
<td>3/16–IN ID</td>
<td>5/16–IN OD</td>
</tr>
</tbody>
</table>

* USE THE PROVIDED TEFLOM O–RING TO PREVENT LEAKAGE.
  TIGHTEN THE ROTOLOCK NUT TO 55LB–FT [75Nm].

NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS.
3. REMOTE AIR COOLED CONDENSERS HAVE JUMPERS INSTALLED FOR STAND ALONE OPERATIONS. JUMPER MUST BE REMOVED FOR REMOTE OPERATION BY THE ACRD.
4. ACRD PROVIDES A DRY CONTACT CLOSURE FOR REMOTE OPERATION OF THE AIR COOLED CONDENSERS.
A-LINK CONNECTIONS

1. A-Link out port (with provided RJ-45 terminator)
2. A-Link in port
3. A-Link cable (CAT-5 ethernet cable)
4. A-Link out port
5. A-Link in port (with provided RJ-45 terminator)

NETWORK PORT CONNECTIONS

1. NETWORK PORT
2. LAN cable (10/100 Base-T)

BUILDING MANAGEMENT SYSTEM

ModBus MASTER

1. 150 ohms, 1/4 Watt termination resistor (provided)
2. MODBUS cable (RS-485)

NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. INTER-CONNECTING WIRING IS SUPPLIED AND FIELD INSTALLED BY OTHERS.