Horizon Elite™ Ice Machine Installation Instructions
for Remote Condensing Unit

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HCD/HMD/HCF/HMF1410R

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Prior to installation, carefully unpack and inspect the contents of your condensing unit!

To ensure proper performance, ease of service and warranty coverage, it is critical that you follow the requirements detailed in this manual. If you cannot meet these requirements or have questions, call our technical service group at 877.612.5086 for installation support.

Condenser Unit Clearances

- Position condenser unit as shown above, with clearances noted above

**Condensing Unit Shipping Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>Horizon 1010</th>
<th>Horizon 1410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td>265 lb (102 kg)</td>
<td>330 lb (150 kg)</td>
</tr>
<tr>
<td>3-phase</td>
<td>320 (145 kg)</td>
<td>320 (145 kg)</td>
</tr>
</tbody>
</table>
Site layout:

- Outdoor ambient temperature range: –20 F to 120 F (–29 C to 49 C)
- Installation with condenser unit elevations above 20’ (6.1 m) require an S-trap at the midpoint of the rise and a P-trap at the top of the rise 1
- Maximum line rise must not exceed 35’ (10.7 m) 2
- Maximum line set length must not exceed 100’ (30.5 m) 3
- Maximum line drop must not exceed 15’ (4.6 m) 4
2.1 Install condensing unit

- Level unit
- Securely attach base of unit using holes found in base plate
- Required rack system capacity at 0 F (-18 C) evaporator (EPR supplied by installer).
  1010N: 7,700 Btu/hr (1940 kcal/hr)
  1410N: 10,000 Btu/hr (2519 kcal/hr)

2.2 Electrical requirements

<table>
<thead>
<tr>
<th></th>
<th>Horizon Remote Single-Phase (208-230/60/1)</th>
<th>Horizon Remote 3-Phase (208-230/60/1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min Circuit Ampacity</td>
<td>Max Overcurrent Protection (MOP)</td>
</tr>
<tr>
<td>Horizon Remote</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-Phase</td>
<td>10.7A</td>
<td>15A</td>
</tr>
<tr>
<td>2010</td>
<td>19.3A</td>
<td>30A</td>
</tr>
<tr>
<td>Horizon Remote 3-Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>10.7A</td>
<td>15A</td>
</tr>
<tr>
<td>1410</td>
<td>19.3A</td>
<td>30A</td>
</tr>
</tbody>
</table>

- Refer to wiring schematic located in condenser unit electrical box

**CAUTION**

- Electrical disconnects required within 10’ (3 m) for all hard wired connections
- Install in accordance with NEC and local electrical codes
2.3 Electrical connections at contactor

1-Phase

- Electrical disconnects required within 10' (3 m) for all hard wired connections.
- Install in accordance with NEC and local electrical codes.

3-Phase

- Electrical disconnects required within 10' (3 m) for all hard wired connections.
- Install in accordance with NEC and local electrical codes.

2.4 Condensing unit refrigeration line-set connection point

1010/1410:
5/8" suction
3/8" liquid
Refrigeration line installation

3.1 Refrigeration line installation: 5/8" suction / 3/8" liquid line (1010, 1410)

**CAUTION**
- The installer of the refrigeration line set must be USA Government Environmental Protection Agency (EPA) certified in proper refrigeration handling and service procedures.
- A qualified person must perform all roof or wall penetration.
- Do not form unwanted traps in refrigeration lines. A service loop is not considered an oil trap.
- Never coil excess refrigeration tubing.
- The compressor oil rapidly absorbs moisture. Minimize the exposure of the refrigeration system by not releasing the condenser unit or evaporator unit holding charge until all line connections are finished and the system is ready for evacuation.

**WARNING**
- This unit contains an R404A holding charge.

1. Make and connect line set run from the condensing unit to the evaporator unit with all specifications found in the installation specifications section. Do not overheat shut off valves on the condenser unit or evaporator unit.

   **Note:** Insulate entire suction line (not the liquid line) including shut off valves to prevent condensation.

2. Leak check field joints via the evaporator unit service valves.

3. Evacuate line set via the evaporator unit service valves.

<table>
<thead>
<tr>
<th>R404A Ice Machine Charge Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Line Run</strong></td>
</tr>
<tr>
<td>0 - 100' (0 - 30.5 m)</td>
</tr>
<tr>
<td>100' + (30.5 m+)</td>
</tr>
</tbody>
</table>

**Note:** Condensing unit shipped with 0.5 lb R404A charge.

5. Open the liquid line service valve and suction line service valve on the evaporator unit and condenser unit.

6. Open the liquid line valve on the receiver, then the suction line valve on the compressor unit.

7. Liquid charge unit through liquid line shut off valve on the evaporator unit or receiver valve on the condensing unit.

8. Isolate the refrigerant tank from high pressure side on the system.

9. Turn on power to condensing unit and evaporator unit.

10. Complete system charge through low pressure side.
4 Pressure adjustment

4.1 Set low-pressure switch

- Adjust the top LEFT screw until the pointer is set to 10 (the differential).
- Adjust the top RIGHT screw until the pointer is set to 20 (the cut-in).

5 Hail hood

5.1 Install hail hood

Please remove the condenser enclosure top to access the following parts:
- Left and right brackets (not interchangeable)
- Hail hood
- 1/4 x 20 x 1/2 hex head screw (10)

1. Locate the left bracket (1) and install using two supplied screws (2).
2. Locate the right bracket (3) and install using two supplied screws (4).
3. Install hail hood (5) to brackets using the remaining six screws (6).

   Note: The bottom hole in the bracket is not used when mounting the hail hood (7).

6. Start up and test

   Notice
   Ice machine MUST be cleaned and sanitized prior to operation!
   Consult Operation and Service Manual provided with ice machine for cleaning and sanitizing instructions.

6.1 Verify operation

   • Turn dispenser power ON if applicable
   • Check current draw of compressor to verify correct electrical operation
   • Put a piece of ice on bin thermostat or hold a cup under the shuttle actuator on the bin/dispenser to verify that the evaporator unit shuts OFF; condensing unit pumps down and shuts off.
   • After shut off, restart the ice machine

   Horizon Condenser Unit Compressor Amperage

<table>
<thead>
<tr>
<th>Single-Phase</th>
<th>Condensing Unit</th>
<th>Running amps (+/- 10%)</th>
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</thead>
<tbody>
<tr>
<td>Model Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010R</td>
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<td>01075365</td>
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<td>1410R</td>
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   3-Phase

<table>
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<th>Model Number</th>
<th>Condensing Unit</th>
<th>Running amps (+/- 10%)</th>
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<tbody>
<tr>
<td>1010R</td>
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<td>01113125</td>
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<td>1410R</td>
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