O3.5UMA-NRG

Mobile Multi-Deck Self-Contained Merchandiser
4’ (Dairy/Deli/Meat/Produce)

REFERENCE NOTES FOR ENGINEERING DATA:

- Extended front sills are required to meet applications to maintain proper product temperature. An extended front has a minimum height of 24” on a 5” baseframe, or 30” on an 11” baseframe.
- BTUH/ft notes:
  - Listed BTUH/ft data represent unlighted shelves. For LED lighting, add 9 BTUH/ft per row of lighted shelving.
  - BTUH load increases by 123 BTUH/ft when aftermarket merchandising accessories are utilized.
  - Listed evaporator temperature represents unlighted shelves. For lighted shelves and/or aftermarket merchandising accessories, reduce the listed evaporator temperature by 2°F.
- Conventional Discharge Air Control - Recommended Settings: Cut-in Temp + Discharge Air + 2°F; Cut-Out Temp = Discharge Air - 2°F.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- Temperature and defrost settings listed above are recommended start-up settings. Final operational settings may need to be adjusted for the store conditions in which the case operates.
- The recommended evaporator temperatures may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.
- LED lights only.
- Maximum of 2 rows of Standard Output LED lighted shelves.
- 3rd row or nose lights are not available.
- 2 rows of high output rear sill lights are not available with the solid 4” front - only 2 rows of standard or 1 row of high output cornice lights are available with this front.

REFERENCE NOTES FOR CROSS SECTIONS:

*STUB-UP AREA
**RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS AVAILABLE UPON REQUEST

- Front and rear sill heights vary with base frame height
- Ends add approximately 1 inch to case height
- A 2” minimum air gap is required between the rear of the case and a wall
- Suction Line (4’ & 6’) 5/8”M, Suction Line (4’ & 6’) 7/8”, Liquid Line (ALL HEIGHTS) 3/8”
- Available shelf sizes: 10”, 12”, 14”, 16” & 18”
- Product on top shelf should be 3 inches below discharge
- Recommended shelf configuration in rows: 1-12”
- Dashed lines signify area inside base rail behind kickplate

COMPONENT
ALL MEASUREMENTS ARE TAKEN PER ASHRAE-72-2005
SPECIFICATIONS. HILLPHOENIX REFRIGERATED DISPLAY
CASES FOR SALE IN THE UNITED STATES MEET OR
EXCEED DEPARTMENT OF ENERGY 2017 EFFICIENCY
REQUIREMENTS.

O3.5UMA-NRG

Hillphoenix

NSF
UL

Rev Date: 4-25-2017
Rev #: 1
Revision Description: DOE 2017
**SYSTEM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Case Length</th>
<th>Volts</th>
<th>Phase</th>
<th>Frequency</th>
<th>Plug Style</th>
<th>Cord Length</th>
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</thead>
<tbody>
<tr>
<td>4'</td>
<td>208/230</td>
<td>1</td>
<td>60</td>
<td>NEMA L14-30</td>
<td>10'</td>
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</table>

**GUIDELINES and CONTROL SETTINGS**

<table>
<thead>
<tr>
<th>Front Sill</th>
<th>24hr Energy Usage (kWh)</th>
<th>Suction Pressure @ Case Outlet (psig)</th>
<th>Superheat Set Point @ Bulb (°F)</th>
<th>Discharge Air (°F)</th>
<th>Discharge Air Velocity (FPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5” Plexiglas</td>
<td>18.8</td>
<td>61-63</td>
<td>6-8</td>
<td>33</td>
<td>150</td>
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**CONDENSING UNIT DATA**

<table>
<thead>
<tr>
<th>Volts</th>
<th>Phase</th>
<th>Frequency (Hz)</th>
<th>Horsepower</th>
<th>Running Load Amps (RLA) (Amps)</th>
<th>Locked Rotor Amps (LRA) (Amps)</th>
<th>Refrigerant</th>
<th>Lbs. of Refrigerant</th>
</tr>
</thead>
<tbody>
<tr>
<td>208/230</td>
<td>1</td>
<td>60</td>
<td>3/4</td>
<td>6.8</td>
<td>33.7</td>
<td>R404A</td>
<td>3.6</td>
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</table>

**DEFROST CONTROLS**

<table>
<thead>
<tr>
<th>Defrosts Per Day</th>
<th>Timed-Off Defrost</th>
<th>Fail-safe Temp (°F)</th>
<th>Termination Temp (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>30</td>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>
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Mobile Multi-Deck Self-Contained Merchandiser
4' (Dairy/Deli/Meat/Produce)

12 3/8" [31.5 cm]
32 1/4" [81.9 cm]

LOAD LIMIT LINE

STANDARD FRONT

CONDENSING UNIT

NEMA L5-20
4' Case

DRAIN PAN

FRONT OF CASE
48" [121.9 cm]

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