**SPECIFICATION SHEET**

**N D R L H P A HIGH PERFORMANCE REAR LOAD ROLL-IN DAIRY MERCHANDISERS**

### Refrigeration Data:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CASE USAGE</th>
<th>CAPACITY (BTUH/FT)</th>
<th>EVAPORATOR TEMP. (°F)</th>
<th>UNIT SIZING (°F)</th>
<th>DISCHARGE AIR TEMPERATURE (°F)</th>
<th>VELOCITY (FPM)</th>
<th>AVG. REF. CHARGE (LBS/FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDLRHPA</td>
<td>8’/12’</td>
<td>DAIRY w/Shelving</td>
<td>407*</td>
<td>462*</td>
<td>+25**</td>
<td>+23</td>
<td>+28.7</td>
<td>648***</td>
</tr>
<tr>
<td></td>
<td></td>
<td>w/Roll-In Carts</td>
<td>416*</td>
<td>463*</td>
<td>+27**</td>
<td>+25</td>
<td>+31.2</td>
<td>652***</td>
</tr>
</tbody>
</table>

* Capacity data listed for cases with 2 rows of T-8 canopy lights and 1 row of T-8 top lights. Adjustments must be made to this base rating for each option installed on this case. ADD 23 BTUH/FT for each row of optional lighted shelves. For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

** Evaporator temperature is based on the saturated pressure leaving the case.

*** Air velocity measured 1 hour after defrost at the top discharge air duct using an ALNOR JR. velometer with a scoop.

**** Required setup for a conventional unit uses an electronic thermostat to assure accurate temperature control.

** Evaporator temperature is based on the saturated pressure leaving the case.

#### Electrical Data:

**Fans and Heaters (120 Volt)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>FANS / CASE</th>
<th>TOTAL STANDARD FANS</th>
<th>TOTAL ANTI-SWEATS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>UP AMPS LOWER AMPS WATTS</td>
<td>UPPER AMPS LOWER AMPS WATTS</td>
</tr>
<tr>
<td>NDLRHPA</td>
<td>8’</td>
<td>3.20</td>
<td>1.36 284.0 120.8</td>
<td>0.42 50.0</td>
</tr>
<tr>
<td>NDLRHPA</td>
<td>12’</td>
<td>4.80</td>
<td>2.04 426.0 181.2</td>
<td>0.63 75.0</td>
</tr>
</tbody>
</table>

#### T-8 Lighting with Electronic Ballasts (120 Volt)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CANOPY LIGHTS* (2 ROWS)</th>
<th>TOP LIGHTS* (1 ROWS)</th>
<th>SHELF LIGHTS – PER ROW</th>
<th>MAX. LIGHTING (7 ROWS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AMPS WATTS</td>
<td>AMPS WATTS</td>
<td></td>
<td>AMPS WATTS</td>
</tr>
<tr>
<td>NDLRHPA</td>
<td>8’</td>
<td>0.95 114.0</td>
<td>0.50 60.0</td>
<td>0.90 1.20 1.60 1.90</td>
<td>108.0 144.0 192.0 228.0</td>
</tr>
<tr>
<td>NDLRHPA</td>
<td>12’</td>
<td>1.40 168.0</td>
<td>0.70 84.0</td>
<td>1.35 1.80 2.40 2.85</td>
<td>162.0 216.0 288.0 342.0</td>
</tr>
</tbody>
</table>

* Standard lighting for this case is 2 rows of T-8 canopy lights and 1 row of T-8 top lights.

#### Defrost Data:

<table>
<thead>
<tr>
<th>DEFROST TYPE*</th>
<th>DEFROSTS PER DAY</th>
<th>DURATION TIME (MIN)</th>
<th>TERM. TEMP. (°F)</th>
<th>ELEK. THERMOSTAT / AIR SENSOR SETTINGS</th>
<th>EPR SETTINGS **</th>
<th>CONVENTIONAL COMPRESSOR SETTINGS ***</th>
<th>DEFROST WATER (LB/FT/DAY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDLRHPA-TIME OFF</td>
<td>6</td>
<td>24</td>
<td>- - -</td>
<td>MED TEMP w/Shelving 29°F 27°F</td>
<td>49 62</td>
<td>47 49 36 60 47</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>24</td>
<td>- - -</td>
<td>MED TEMP w/Roll-In Carts 31°F 29°F</td>
<td>51 65</td>
<td>49 47 63 47</td>
<td>1.8</td>
</tr>
</tbody>
</table>

* All high performance cases are OFF CYCLE defrost.

** NOTE: 24 minutes is for EPR with suction stop for defrost isolation. Defrost times increase by four minutes when defrost isolation is pump down.

*** If EPR is utilized, use the settings shown in the chart. ADD 0.5°F to EPR setting for each 1000 foot rise in elevation.

**** Required setup for a conventional unit uses an electronic thermostat to assure accurate temperature control.

** CASE CIRCUITS: NDLRHPA case requires four separate 120V circuits: 1) an Upper Case Fan Circuit, 2) a Lower Case Fan Circuit, 3) an Anti-Sweat Heater Circuit, and 4) a Shelf & Canopy Light Circuit.

The minimum size coils required behind the Roll-In cases are; 8’ case use a Model EFA – 130M and for a 12’ case use a Model EFA – 190M. Upsize the coils as necessary based on the revised total load and size at a 9°F temperature differential. The case coils and the cooler units coils can be run on separate refrigeration circuits, but both must be defrosted at the same time.

** NOTE: The cooler and case should be controlled by a Thermostat & Solenoid or EPR. Defrost needs to be at the same time.

** UL SANITATION: approved in accordance with ANSI/NSF – 7.

** CASE BTUH REQUIREMENTS: are calculated to produce approximately the indicated entering-air temperature with absolute maximum operating ambient limits of 75°F & 55RH.

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NDRLHPA CROSS SECTION

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