This manual has been designed to be used in conjunction with the General (UL/NSF) Installation & Service Manual. Save the Instructions in Both Manuals for Future Reference!!

This merchandiser conforms to the American National Standard Institute & NSF International Health and Sanitation standard ANSI/NSF 7 - 2003.
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The following Low Temperature Single Deck Frozen Meat Merchandiser models are covered in this manual:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMF</td>
<td>6', 8' &amp; 12' FROZEN MEAT MERCHANDISER</td>
</tr>
<tr>
<td>NMFG</td>
<td>6', 8' &amp; 12' GLASS FRONT FROZEN MEAT MERCHANDISER</td>
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SPECIFICATIONS
NMF/NMFG Frozen Meat Merchandisers

Refrigeration Data:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CASE USAGE</th>
<th>CAPACITY (BTUH/FT)</th>
<th>Evaporator (°F)</th>
<th>Unit Sizing (°F)</th>
<th>Discharge Air Temperature (°F)</th>
<th>Discharge Air Velocity (FPM)</th>
<th>Avg. Ref. Charge (LBS/FT)</th>
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<tr>
<td>NMF</td>
<td>6’/8’/12’</td>
<td>FROZEN FOOD</td>
<td>327*</td>
<td>-25**</td>
<td>-28</td>
<td>-15</td>
<td>155**</td>
<td>0.27***</td>
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<tr>
<td>NMFG</td>
<td>6’/8’/12’</td>
<td>FROZEN FOOD</td>
<td>327*</td>
<td>-25**</td>
<td>-28</td>
<td>-15</td>
<td>155**</td>
<td>0.27***</td>
</tr>
</tbody>
</table>

* 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.
**** This is an average refrigeration charge per foot based on R22 and R404A refrigerant usage.

FOR SPECIFIC COMPRESSOR SIZING INFORMATION, REFER TO TYLER APPLICATIONS FOR RACK SYSTEM COMPRESSORS AND/OR THE COMPRESSOR MANUFACTURERS FOR SINGLE COMPRESSORS. FOR LINE SIZING INFORMATION, REFER TO THE MISCELLANEOUS SECTION "BUFF" IN THE TYLER SPECIFICATION GUIDE.

Electrical Data:

Fans and Heaters (120 and 208 Volt):

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>FANS/CASE</th>
<th>TOTAL STD FANS</th>
<th>TOTAL ECM FANS</th>
<th>TOTAL ANTI-SWEATS (120V)</th>
<th>Defrost Heater (208V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AMPs/WATTS</td>
<td>AMPs/WATTS</td>
<td>DISCHARGE AIR WATTS</td>
<td>TRIM RAIL WATTS</td>
<td>GLASS RETAINER WATTS</td>
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<tr>
<td>NMF</td>
<td>6’</td>
<td>60.4</td>
<td>0.44</td>
<td>22.0</td>
<td>0.61</td>
<td>73.0</td>
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<tr>
<td>NMF</td>
<td>8’</td>
<td>60.4</td>
<td>0.44</td>
<td>22.0</td>
<td>0.95</td>
<td>114.0</td>
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<tr>
<td>NMF</td>
<td>12’</td>
<td>90.6</td>
<td>0.66</td>
<td>33.0</td>
<td>1.26</td>
<td>152.0</td>
</tr>
<tr>
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<td>6’</td>
<td>60.4</td>
<td>0.44</td>
<td>22.0</td>
<td>0.61</td>
<td>73.0</td>
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<tr>
<td>NMFG</td>
<td>8’</td>
<td>60.4</td>
<td>0.44</td>
<td>22.0</td>
<td>0.95</td>
<td>114.0</td>
</tr>
<tr>
<td>NMFG</td>
<td>12’</td>
<td>90.6</td>
<td>0.66</td>
<td>33.0</td>
<td>1.26</td>
<td>152.0</td>
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</table>

Heaters (208 Volt):

<table>
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<th>208 VOLT DEFROST (AMPS)</th>
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<tr>
<td>FT</td>
</tr>
<tr>
<td>1 PH</td>
</tr>
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<td>3 PH</td>
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Defrost Data:

<table>
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<tr>
<th>DEFROST TYPE*</th>
<th>DEFROSTS PER DAY</th>
<th>DURATION TIME (MIN)</th>
<th>TERMINATION (°F)</th>
<th>EPR SETTING **</th>
<th>DEFROST WATER (LB/FT/DAY)</th>
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<tbody>
<tr>
<td>ELECTRIC</td>
<td>1</td>
<td>60</td>
<td>50</td>
<td>R22 (PSIG) 7.4</td>
<td>14</td>
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<tr>
<td>HOT GAS</td>
<td>2</td>
<td>16-20</td>
<td>55*</td>
<td>R404A (PSIG) 11</td>
<td>11/8</td>
</tr>
</tbody>
</table>

* If an Electronic Sensor is used for termination, it should be set at 70°F termination temperature. The sensor must be located in the same location as the defrost termination kistor for that defrost type.
** Set EPR to give this pressure at the case.

CASE-TO-CASE SULATION SUB-FEED BRANCH LINE SIZING:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>6’</th>
<th>8’</th>
<th>12’</th>
<th>16’</th>
<th>20’</th>
<th>24’</th>
<th>28’</th>
<th>32’</th>
<th>36’</th>
<th>40’</th>
<th>44’</th>
<th>48’</th>
<th>52’</th>
<th>56’</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>5/8”</td>
<td>7/8”</td>
<td>7/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td>1 1/8”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CASE CIRCUITS: In addition to the 208V defrost circuit, there is the 120V case fan circuit plus the 120V case anti-sweat heater circuit. Anti-sweat heater circuit includes allowance for lower glass retainer heater, upper glass trim rail and heated glass.

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.

The information contained herein is based on technical analysis and/or tests performed in a controlled lab environment that are consistent with industry practices, and is intended as a reference for system sizing and configuration purposes only and for use by persons having technical skill at their own discretion and risk. Conditions of use are outside of Tyler's control and we do not assume and hereby disclaim any liability for results obtained or damages incurred through application of or reliance on the data presented, including but not limited to specific energy consumption with any particular model or installed application. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
INSTALLATION PROCEDURES

Carpentry Procedures

Case Pull-Up Locations

The NMF and NFMG models have two pull-ups at each end of the case. Pull-ups A and B are located as shown and used for joining all cases.

1” Solid Partition

A 1” insulated partition is required between adjacent gas defrost cases that are on different refrigeration systems. 1” partitions are shipped installed as specified in the case order. Make sure the partitioned case is being installed in the proper location in the case line-up. This assures proper refrigeration to all parts of the case line-up.

Apply sealant to outside surface of partition where the two surfaces of the adjoining case will contact the partition.

See “General-UL/NSF I&S Manual” for line-up assembly instructions.

After all case pull-ups have been secured, all interior wall joint seams should be sealed with duct tape.

Plexiglas Partition

A plexiglas plug partition is required on adjacent electric defrost cases that are on different refrigeration systems. These partitions can be installed after the cases have been joined.

Refrigeration Procedures

See “General-UL/NSF I&S Manual” for general system, control and superheat information.

Optional Dual Temperature Control

The dual temperature control unit is a factory installed option. This control allows the user to easily switch from medium to low temperature operation by flipping a switch. The dual temperature control consists of an EPR valve in the suction line coming off the evaporator. The EPR valve can be bypassed with a solenoid controlled bypass line around it. The toggle switch opens or closes this solenoid.

When the solenoid is open, the evaporator is connected directly to the compressor suction that allows for low temperature operation.

When the solenoid is closed, the evaporator must operate through the EPR valve which has been preset to the desired medium temperature.

EXAMPLE: R-404A system with 12 psig of suction pressure. With the suction line solenoid open, the coil pressure operates at 12 psig with a temperature of -29°F. When the toggle switch is flipped, the solenoid closes directing the flow through the EPR valve. If the EPR valve is set for 48 psig, the evaporator will see a coil temperature of 12°F and will operate at a discharge air temperature of about 22°F.
When gas defrost is used, an additional check valve is mounted around the EPR valve to allow reverse flow for the defrosting gas. A fan delay is also connected with gas defrost to cycle the fans off, but only during the medium temperature mode.

**Electrical Procedures**

**Electrical Considerations**

**CAUTION**

Make sure all electrical connections are tight. This prevents burning of electrical terminals and/or premature component failure.

**NOTE**

The raceway houses the electrical wiring and components for the case.

**Case Fan Circuit**

This circuit is to be supplied by an uninterrupted, protected 120V circuit. The case fan circuit is not cycled, except when equipped for gas defrost. On gas defrost cases the fan circuit is controlled by a 50/40 klixon when used for medium temperatures.

**NOTE**

With gas defrost, the fans will not start until the coil temperature reaches 40°F at the fan delay klixon.

**Anti-Sweat Circuit**

All cases have at least one anti-sweat heater in each discharge air grid. Cases with glass have two additional anti-sweat heaters in the rubrail and under the glass retainer and heated glass. Anti-sweat heaters and the heated glass are wired directly to the main power supply so they can operate at all times.

**Defrost Information**

See “General-UL/NSF I&S Manual” for operational descriptions for each type of defrost control.

**Defrost Control Chart**

<table>
<thead>
<tr>
<th>Type</th>
<th>Defrosts Per Day</th>
<th>Duration (Min)</th>
<th>Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric</td>
<td>1</td>
<td>60</td>
<td>50°F</td>
</tr>
<tr>
<td>Gas</td>
<td>2</td>
<td>16-20</td>
<td>55°F</td>
</tr>
</tbody>
</table>

**WIRING DIAGRAMS**

**ELECTRICIAN NOTE - OVERCURRENT PROTECTION**

120V circuits should be protected by 15 or 20 Amp devices per the requirements noted on the cabinet nameplate or the National Electrical Code, Canadian Electrical Code - Part 1, Section 28. 208V defrost circuits employ No. 12 AWG field wire leads for field connections. On remote cases intended for end to end line-ups, bonding for ground may rely upon the pull-up bolts.

The following wiring diagrams on pages 8 thru 10 will cover the NMF and NMFG case circuits.
NFM/NFMG Domestic & Export (50Hz) Case Circuits

NOTE: ALL CASES MUST BE GROUNDED
Dual Temperature Control Circuits

- Rear Risers Anti-Sweat Heater
- Heated Glass Panels
- Glass Front Cases
- Glass Retainer Anti-Sweat Heater
- Dual Temperature Glass Heater Thermostat
- Fan Motors
- Optional Hot Gas Defrost

HOT GAS DEFROST

- Dual Temperature Switch
- Solenoid Valve
- Fan Panel Ground

ELECTRIC DEFROST

- 208VAC 50Hz Supply
- 220VAC 50Hz International

March, 2008
CLEANING AND SANITATION

Component Removal and Installation Instructions for Cleaning

Bottom Trays
1. Remove product from bottom of case.
2. Grasp and lift out each of the bottom trays from the case interior and carefully remove through the door openings
3. After cleaning, replace in reverse order.

NSF Product Thermometer
Remove two screws and access panel with product thermometer bracket assembly on it from right front location in the case. After cleaning, replace access panel assembly and secure with two screws.

Discharge Air Honeycomb
1. Remove screws and bottom retainer strip from front or rear interior of case.

   NOTE
   Note position of the honeycomb grid during removal so it can be reinstalled the same way.
2. Remove honeycomb grid sections from the front or rear duct.

   CAUTION
   Improper installation of the honeycomb grid section could result in improper air flow and/or poor refrigeration.
3. After cleaning, replace honeycomb grid sections as they were removed and secure with the bottom retainer strip and screws.

Rear Air Duct Panels
1. Remove bottom trays and discharge air honeycomb, see this page.
2. Remove mounting screws from rear duct panel.
3. After cleaning, replace in reverse order.

Front Air Duct Panels
1. Remove bottom trays, see this page.
2. Remove screws and front air duct panels from case.
3. After cleaning, replace in reverse order.

Lower Cladding
1. Remove lower cladding, see this page.
2. Remove color band, bumper and bumper retainer from case. (See General-UL/NSF I&S Manual.)
3. Remove mounting screws from top and bottom of lower cladding and remove lower cladding.
4. After cleaning, replace upper cladding and remaining components in reverse order.

Upper Cladding
1. Remove lower cladding, see this page.
2. Remove color band, bumper and bumper retainer from case. (See General-UL/NSF I&S Manual.)
3. Remove mounting screws from top and bottom of upper cladding and remove upper cladding.
4. After cleaning, replace upper cladding and remaining components in reverse order.
GENERAL INFORMATION

NSF Product Thermometer Installation

1. Unwrap the thermometer and bracket assembly shipped loose with the case.

2. Position thermometer and bracket assembly so it is centered on the top portion of the secured right front access panel.

   **NOTE**
   The bottom of the bracket tabs should be at the bend on the access panel.

3. Mount the thermometer and bracket assembly to the access panel with two self-tapping screws.

   **NOTE**
   This positioning will allow the front access panel and the thermometer assembly to be removed as an assembly.

SERVICE INSTRUCTIONS

Defrost Heater Replacement

**WARNING**
Always shut off electricity to case before replacing a defrost heater. Automatic cycling of fans or electrical power to wire ends could cause personal injury and/or death.

1. Remove bottom trays (1) from case (2).

2. Disconnect defrost heater plug (3) from junction block (4).

3. Unclip and lift up fan plenum (5).

4. Remove defrost heater (6) from mounting clips (7) and case (2).

5. Install new defrost heater (6) in reverse order.

6. Restore electrical power to case.

See “General-UL/NSF I&S Manual” for fan blade and motor replacement, color band and bumper replacement instructions.
Anti-Sweat Replacement

**WARNING**

Shut off or disconnect power supply to case before changing an anti-sweat. Electrical power from wire ends could damage other components and/or cause personal injury or death.

**Discharge Air Grid Anti-Sweat**

1. Remove screws and rear guard trim (1) from top of rear case wall (2).
2. Disconnect or cut the defective anti-sweat wire (3) from the case wires.
3. Remove and replace the aluminum tape (4) and defective anti-sweat wire (3) from top of rail and wire trim assembly (5).
4. Reconnect anti-sweat wires to case wires and reinstall rear guard trim with screws.

Front Glass Replacement (NMFG Only)

1. Unplug or disconnect glass anti-sweat and heated glass wires (1).
2. Remove two screws (2) and glass joint trim (3) from both joints of the broken glass (4).
3. Remove screws (5) and glass trim rail (6) from top of glass (4).
4. Loosen rear retainer (7) and remove broken glass (4) from glass retainer assembly (8).

**NOTE**

Inspect the anti-sweat wire in glass retainer assembly. If wire is damaged or broken, replace it before replacing the front glass.

5. Apply sealant tape to top and bottom edge of new glass (4).
6. Position new glass (4) in glass retainer assembly (8) and secure by tightening rear retainer (7).
7. Install glass trim rail (7) with screws (6) over top edge of new glass (4).
8. Install glass joint trim (3) with two screws (2) over the joint areas of glass (4).
9. Reconnect the anti-sweat and heated glass wires (1).
## PARTS INFORMATION
### Cladding and Optional Trim Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>6'</th>
<th>8'</th>
<th>12'</th>
</tr>
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<tr>
<td>1</td>
<td>Return Air Duct Joint Trim</td>
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<td>5207497</td>
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<tr>
<td>2</td>
<td>Screw</td>
<td>5205439  (2)</td>
<td>5205439  (2)</td>
<td>5205439  (2)</td>
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<tr>
<td>3</td>
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<td>---------</td>
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<tr>
<td></td>
<td>Bumper Retainer (NMFG)</td>
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<td>9025058</td>
<td>9025061</td>
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<td>9020981</td>
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<td>5</td>
<td>Bumper</td>
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<td>8</td>
<td>Bumper Backer</td>
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<td>color per order</td>
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<td>Bumper End Trim</td>
<td>---------</td>
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<td>---------</td>
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<tr>
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<td>21</td>
<td>Rear Riser Joint Trim</td>
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<td></td>
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<td>23</td>
<td>Screw</td>
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<td>27</td>
<td>Screw</td>
<td>5048626  (2)</td>
<td>5048626  (2)</td>
<td>5048626  (2)</td>
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</table>
## Operational Parts List

(Models NMF and NMFG)

<table>
<thead>
<tr>
<th>Case Usage</th>
<th>Domestic</th>
<th>Export</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Circuit</td>
<td>115 Volt 60 Hertz</td>
<td>220 Volt 50 Hertz</td>
</tr>
<tr>
<td>Case Size</td>
<td>6'</td>
<td>8'</td>
</tr>
<tr>
<td>Fan Motor</td>
<td>5125532</td>
<td>5125532</td>
</tr>
<tr>
<td></td>
<td>5 Watt</td>
<td>5 Watt</td>
</tr>
<tr>
<td>Fan Motor Brackets</td>
<td>5213132</td>
<td>5213132</td>
</tr>
<tr>
<td>Fan Bracket Plate</td>
<td>9041077</td>
<td>9041077</td>
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<tr>
<td>Fan Blades (6” 21° 3B)</td>
<td>5105621</td>
<td>5105621</td>
</tr>
<tr>
<td>Opt. ECM Fan Motor</td>
<td>9025002</td>
<td>9025002</td>
</tr>
<tr>
<td></td>
<td>8 Watt</td>
<td>8 Watt</td>
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<tr>
<td>Opt. ECM Fan Motor Brackets</td>
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<tr>
<td>Opt. ECM Fan Blades (6” 15° 3B)</td>
<td>9408191</td>
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### Anti-Sweat Heater Wire
- (Discharge Air) (NMF/NMFG) | 5233734 | 5124216 | 5124217 | --- | 5081149 | 5081150 |
- (Trim Rail) (NMFG) | 5227379 | 5124818 | 5124819 | --- | 5081147 | 5081148 |
- (Glass Retainer) (NMFG) | 5233734 | 5128331 | 5128332 | --- | 5081149 | 5081150 |

### Electric Def. Heater (NMF/NMFG)
- | 5125153 | 5124521 | 5124522 | 5125153 | 5124521 | 5124522 |

### Electric Def. Term. Klixon
- | 5125211 | 5125211 | 5125211 | 5125211 | 5125211 | 5125211 |

### Opt. Gas Def. Fan Delay Klixon
- | 9023503 | 9023503 | 9023503 | 9023503 | 9023503 | 9023503 |

### Opt. Gas Def. Term. Klixon
- | 9023508 | 9023508 | 9023508 | 9023508 | 9023508 | 9023508 |

### NSF Product Thermometer
- | 5967100 | 5967100 | 5967100 | 5967100 | 5967100 | 5967100 |

For information on operational parts not listed above contact the TYLER Service Parts Department.