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!!

THREE DECK MEAT/DELI/CRITICAL TEMP PRODUCE MERCHANDISERS WITH CURVED FRONT GLASS Medium Temperature Self Serve Display Cases

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 Medium Temperature, Top Display Meat, Deli and Critical Temp Produce Merchandiser models are covered in this manual:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>NSSD</td>
<td>4’, 6’, 8’ &amp; 12’ CURVED GLASS FRONT 3-DECK MEAT/DELI MERCHANDISER</td>
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</table>
**SPECIFICATIONS**

**NSSD Three Deck Meat/Deli/Critical Temp Produce Merchandisers**

**Refrigeration Data:**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CASE LENGTH</th>
<th>CASE USAGE</th>
<th>CAPACITY (BTUH/FT)</th>
<th>EVAPORATOR (^\circ)F</th>
<th>UNIT SIZING (^\circ)F</th>
<th>DISCHARGE AIR (^\circ)F</th>
<th>VELOCITY (FPM)</th>
<th>AVG. REF. (CUBSF)</th>
</tr>
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<tbody>
<tr>
<td>NSSD</td>
<td>4'3/6'8/12</td>
<td>MED TEMP</td>
<td>811*</td>
<td>+15**</td>
<td>+13</td>
<td>+27</td>
<td>150***</td>
<td>0.18</td>
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</table>

* Capacity data listed for cases with 1 row of T-8 canopy lights and 3 rows of optional lighted shelves. Adjustments must be made to this base rating for each option installed on this case. DEDUCT 23 BTUH/FT for each row of unlighted shelves. For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

**Evaporator temperature is defined as the saturated suction temperature leaving the case.**

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

**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 MODEL-LINE-OUT SECTION "BUT" 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 STANDARD FANS</th>
<th>TOTAL ECM FANS</th>
<th>TOTAL ANTI-SWEATS</th>
<th>DISCHARGE AIR WATTS</th>
<th>208 VOLT DEFROST HEATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSSD</td>
<td>4'</td>
<td>2</td>
<td>1.06 96 N/A</td>
<td>N/A</td>
<td>0.14 17.0</td>
<td>4.50 906</td>
<td>4.50 906</td>
</tr>
<tr>
<td>NSSD</td>
<td>6'</td>
<td>2</td>
<td>1.06 96 0.44 22</td>
<td>0.10 12.0</td>
<td>6.50 1352</td>
<td>4.50 906</td>
<td>4.50 906</td>
</tr>
<tr>
<td>NSSD</td>
<td>8'</td>
<td>2</td>
<td>1.06 96 0.44 22</td>
<td>0.13 15.6</td>
<td>6.90 1436</td>
<td>4.50 906</td>
<td>4.50 906</td>
</tr>
<tr>
<td>NSSD</td>
<td>12'</td>
<td>3</td>
<td>1.59 144 0.06 33</td>
<td>0.20 24.0</td>
<td>10.30 2,143</td>
<td>4.50 906</td>
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</tbody>
</table>

**Heaters (208 Volt):**

<table>
<thead>
<tr>
<th>FT</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</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>
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</thead>
<tbody>
<tr>
<td>1 Ph</td>
<td>4.5</td>
<td>6.5</td>
<td>6.5</td>
<td>10.3</td>
<td>13.8</td>
<td>17.2</td>
<td>20.0</td>
<td>24.1</td>
<td>27.5</td>
<td>30.9</td>
<td>34.4</td>
<td>37.8</td>
<td>41.2</td>
<td>44.7</td>
<td></td>
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<tr>
<td>3 Ph</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12.0</td>
<td>15.6</td>
<td>18.0</td>
<td>15.6</td>
<td>18.0</td>
<td>16.0</td>
<td>21.0</td>
<td>25.0</td>
<td>28.0</td>
<td>30.0</td>
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208 VOLT DEFROST (AMPS)

<table>
<thead>
<tr>
<th>FT</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</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>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ph</td>
<td>4.5</td>
<td>6.5</td>
<td>6.5</td>
<td>10.3</td>
<td>13.8</td>
<td>17.2</td>
<td>20.0</td>
<td>24.1</td>
<td>27.5</td>
<td>30.9</td>
<td>34.4</td>
<td>37.8</td>
<td>41.2</td>
<td>44.7</td>
<td></td>
</tr>
<tr>
<td>3 Ph</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12.0</td>
<td>15.6</td>
<td>18.0</td>
<td>15.6</td>
<td>18.0</td>
<td>16.0</td>
<td>21.0</td>
<td>25.0</td>
<td>28.0</td>
<td>30.0</td>
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**T-8 Lighting with Electronic Ballasts (120 Volt):**

<table>
<thead>
<tr>
<th>T-8 LIGHTING</th>
<th>ELECTRONIC BALLASTS</th>
<th>(120 Volt)</th>
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<tbody>
<tr>
<td>FT</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>1 Ph</td>
<td>4.5</td>
<td>6.5</td>
</tr>
<tr>
<td>3 Ph</td>
<td>N/A</td>
<td>N/A</td>
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</table>

**Defrost Data:**

<table>
<thead>
<tr>
<th>DEFROST TYPE</th>
<th>DEFROSTS PER DAY</th>
<th>DURATION (MIN)</th>
<th>TERMINATION (°F)</th>
<th>EPR SETTINGS</th>
<th>DEFROST WATER (LB/FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIME OFF</td>
<td>8</td>
<td>28</td>
<td>-</td>
<td>R22 (PSI)</td>
<td>5.5</td>
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<tr>
<td>ELECTRIC</td>
<td>6</td>
<td>36</td>
<td>50</td>
<td>R40A (PSI)</td>
<td>5.2</td>
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<tr>
<td>HOT GAS</td>
<td>6</td>
<td>12-15</td>
<td>55*</td>
<td></td>
<td></td>
</tr>
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</table>
**CASE-TO-CASE SUCTION LINE SUB-FEED BRANCH LINE SIZING**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>4'</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>
</tr>
</thead>
<tbody>
<tr>
<td>NSSD / R22</td>
<td>1/2&quot;</td>
<td>5/8&quot;</td>
<td>5/8&quot;</td>
<td>7/8&quot;</td>
<td>7/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 1/8&quot;</td>
<td>1 3/8&quot;</td>
<td>1 3/8&quot;</td>
<td>1 3/8&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NSSD CROSS SECTION**

**FLOOR PLAN**

- 4' Case = 48-1/4"
- 6' Case = 72-1/4"
- 8' Case = 96-3/8"
- 12' Case = 144-1/2"

*Recommended Shelf Usage (Min. 5' downslope required)*
- 3-Shelf Combinations
  - 12" top, 15" mid, 18" bottom
  - 12" top, 15" mid, 20" bottom
- 2-Shelf Combinations
  - 12" top, 18" bottom
  - 15" top, 18" bottom

*Pedestal Base Option*

*Note: 4' cases use four 2" pipe legs*

- 6' & 8' cases use six 2" pipe legs
- 12' cases use eight 2" pipe legs

*Add 1-1/2" for Insulated Partition*
INSTALLATION PROCEDURES
Carpentry Procedures
Case Line-Up

NOTE
The NSSD cases are shipped on casters that are replaced with adjustable legs during case line-up and installation.

See the “General-UL/NSF I&S Manual” for the proper case line-up procedures.

Case Pull-Up Locations

All NSSD models have four pull-ups at each end of the case. Pull-ups A, B, C and D are located as shown and should be installed and tighten starting with A and finishing with D.

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

Electrical Procedures

Electrical Considerations

CAUTION
Make sure all electrical connections at components and terminal blocks are tight. This prevents burning of electrical terminals and/or premature component failure.

NOTE
The NSSD has two raceway locations that can house the electrical wiring, components and terminal blocks. All components and wiring can be located in either the lower front or the lower rear of the case.

Case Fan Circuit

This circuit is to be supplied by an uninterrupt-ed, 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.

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

Fluorescent Lamp Circuit

Case lighting is supplied by T-8 electronic ballast lights. It is controlled by a light switch in each case. The standard lighting is 1-row of T-8 canopy lights. NSSD models also offer up to 3 rows of optional T-8 shelf lights.

Anti-Sweat Heater Circuit

NSSD cases have three anti-sweat heaters. One in the top light assembly, one in the front glass trim rail and one in the front glass retain-er. All anti-sweat heaters 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>Defrost Type</th>
<th>Defrosts Per Day</th>
<th>Duration (Min)</th>
<th>Temp. (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Time</td>
<td>6</td>
<td>28</td>
<td>----</td>
</tr>
<tr>
<td>Electric</td>
<td>6</td>
<td>36</td>
<td>50</td>
</tr>
<tr>
<td>Gas</td>
<td>6</td>
<td>12-15</td>
<td>55</td>
</tr>
</tbody>
</table>

**NOTE**

The termination klixon for gas defrost is located at the bypass check valve at the left end of the evaporator coil.

Most klixons are located on the right end of the evaporator coil. The diagram shows the location for each defrost type that uses a klixon.

**CAUTION**

If electronic sensors are used in place of the klixons, the sensors must be located in the same location as the klixons for that defrost type. Any other locations will effect the refrigeration efficiency of the case.

**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 13 will cover the NSSD case circuits including all defrost and lighting wiring circuits.
NSSD Domestic & Export (50 Hz) Case Circuits (4’ Cases)

Wire Nut Unused Blu/Yel Wire

Blu/Yel

Red

Gin

Lamp TB

BLK

WHT

GRN

Upper Shelf Light Channel
Anti-Sweat Heater

Top Shelf Lights

Typical Lighted Shelf Wiring

The attached socket covers must be inserted in each unused socket for lighted shelves to light correctly in each column.

Optional Lighted Shelving
6’ft or 8’ft Cases: (3) Rows, (6) Shelves

Optional Defrost Heater

Optional Defrost Limit Switch
(Opens 50°F, Closes 30°F)

Optional Solenoid Valve

Fan Motors: (2) per 6’ or 8’ Cases

Case Wall

Optional Temperature Control Thermostat

120VAC 60Hz Supply

208VAC 60Hz Supply

NOTE: ALL CASES MUST BE GROUNDED
NOTICE: ALL CASES MUST BE GROUNDED
NSSD Domestic & Export (50 Hz) Case Circuits (6' & 8' Cases)

NOTE: ALL CASES MUST BE GROUNDED
NSSD Domestic & Export (50 Hz) Case Circuits (12’ Cases)

NOTE: ALL CASES MUST BE GROUNDED
UPPER SHELF LIGHT CHANNEL
ANTI-SWEAT HEATER

TOP SHELF LIGHTS

TYPICAL LIGHTED SHELF WIRING

THE ATTACHED SOCKET CONTROLS
MUST BE INSERTED IN EACH
ENCLOSED SOCKET FOR LIGHTED
SHELVES TO LIGHT CORRECTLY
IN EACH COLUMN.

OPTIMAL LIGHTED SHELVES
12FT CASES: (3) ROWS, (9) SHELVES

HOT GAS DEFROST
FAN MOTOR 5F14
THERMOSTAT
(OPEN 50°F, CLOSES 40°F)

CONTROL CIRCUITS

FAN MOTORS: (3) PER 12FT CASE

OPTIONAL TEMPERATURE
CONTROL THERMOSTAT

120VAC 60HZ
SUPPLY

NOTE: ALL CASES MUST BE GROUNDED
CLEANING AND SANITATION

Component Removal and Installation Instructions for Cleaning

Shelves and Shelf Brackets
1. Remove product from shelves.
2. If shelf has a light, unplug the light cord from the socket in the rear duct panel. Completely insert socket cover in the light socket to protect the receptacle.
3. Push shelves back and then lift up and out to remove them from the shelf brackets.
4. Remove shelf brackets from slots in rear uprights.
5. After cleaning, replace in reverse order.

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

Front Air Ducts
1. Remove lower trays, see this page.
2. Lift out front air duct sections.
3. After cleaning, replace in reverse order.

Rear Duct Panels (w/o Shelf Light Sockets)
1. Remove shelves and bottom trays, see above.
2. Remove mounting screws and rear duct panels from case.
3. After cleaning, replace and secure rear duct panels in reverse order.

Rear Duct Panels (with Shelf Light Sockets)
1. Remove shelves and bottom trays, see above.
2. Remove mounting screws from rear duct panel.
3. Slowly lift out rear duct panel until the shelf harness connector near the top of the panel can be accessed.
4. Disconnect shelf harness connector and complete removing the rear duct panel.

WARNING
Rear duct panels with electrical receptacles can be cleaned without removing the electrical receptacles. Do not get moisture on electrical wires when cleaning under this cover. Moisture on wires could cause premature product failure and/or personal injury or death from electrical shock.
5. After cleaning, reconnect the shelf harness connector and replace and secure rear duct panels in reverse order.

Discharge Air Honeycomb
1. Loosen screws securing rear retainer plate.

NOTE
Note position of the honeycomb grid during removal so it can be reinstalled the same way.
2. Slide rear retainer plate back until the honeycomb grid sections can be removed from the top 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 rear retainer plate and screws.

Front Lower Cladding
1. Remove front kickplate.
2. Lift and pull out front lower cladding until rear tabs clear holes in front of frame assembly. After rear tabs are clear, pull down on cladding to clear upper tabs from slots in bottom of upper front cladding and remove cladding from case.
Radiant Heat Information

A wide temperature range is shown for each type of lighting. This data does not show all situations. Many situations will have higher package warm-up figures than indicated.

It is generally known that the temperature of displayed meat in refrigerated cases will run higher than the circulated air temperature of the cases. A dial thermometer stuck into the center of a piece of meat compared with one in the air stream quickly confirms this fact. Another fact is that the surface temperature of the meat will be higher than the center temperature due to radiant heat. TYLER’s ongoing research identifies sources of radiant heat and accurately measures and records it. These charts were developed from the information gathered during this research. Two major sources of radiant heat are from display lights and ceiling surfaces. Additional heat sources come from bad display practices which either overload the case with product or allow voids in the product display. Poor display practices impair the efficiency of the refrigeration, adding to the surface temperature of the meat. Bacteria and molds grow when surface temperatures...
temperatures rise above 45°F. This prematurely discolors displayed meats and causes unnecessary meat department losses.

**Radiant Heat Measurement**

Place two accurate dial thermometers side by side in a case. Cover one of the thermometer stems with black friction tape. The temperature difference is the approximate amount of radiant heat. A change in display lighting or a reduction of high ceiling temperatures (over 80°F) could reduce the radiant heat in the case.

**Display Practices**

Encourage butchers to maintain all meat below the case load lines and to eliminate product voids. Case screens could be covered in some instances to keep the refrigerated air over the display.

**CAUTION**

The quality damage done to meat products by high temperatures and/or contamination during delivery, cooler storage, cutting and wrapping cannot be repaired by placing the products into properly operating display cases.

**SERVICE INSTRUCTIONS**

**Light Servicing**

See “General-UL/NSF I&S Manual” for T-8 lamp, fan blade and motor, and color band and bumper replacement instructions.

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**Ballast and Lighting Locations**

All NSSD light ballasts are located either in the front raceway behind the lower front cladding, or in the rear raceway behind the rear rail cover. This includes remote ballasts for optional shelf lights. The canopy light(s) are under the canopy light channel in the top of the case. The optional shelf lights are mounted in separate light fixtures under the front of each shelf section.

In order to retain safety approval with Underwriters Laboratory and the Canadian Standards Association, the mounting of electrical components and interconnecting wires must not deviate from the following instructions. Only qualified personnel are authorized to install the accessory items. TYLER Refrigeration recommends you order all component parts from its Service Parts Department.
Rear Ballast Location Replacement

1. Remove screws (1) and rear rail cover (2) from rear of case.

**NOTE**

If tappit screws are not available, a star-washer should be used between the ballast and the heads of the screws.

2. Install required number of ballasts (3) in rear electrical raceway (4) with two screws (5) each.

3. Identify and connect required wiring harnesses (upper, lower, etc...) to the ballast connectors (6).

4. Replace rear rail cover (2) and secure with screws (1).

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. Unclip and lift up fan plenum (3).

3. Disconnect and remove defrost heater (4) from mounting clips (5) and case (2).

4. Install new defrost heater (4) in reverse order.

5. Restore electrical power to case.
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.

Top Light Channel Anti-Sweat Replacement

1. Remove screws (1) and lower the top light channel assembly (2) from top of the case (3).
2. Disconnect or cut the defective anti-sweat wires (4) from the case wires.
3. Remove and replace the aluminum tape (5) and defective anti-sweat wire (4) from the back of the top light channel assembly (2).
4. Position new anti-sweat wire (4) in case) and secure with new aluminum tape (5).
5. Reconnect the new anti-sweat wires (4) to case wires and reinstall the top light channel assembly (2) with screws (1).
6. Restore electrical power to the case.

Front Curved Plexiglas Replacement

1. Remove two screw (1) and plexiglas joint trim (2) from both joints of the damaged plexiglas (3).
2. Remove damaged plexiglas (3) from plexiglas retainer (4).
3. Position new plexiglas (3) in plexiglas retainer (4).
4. Install plexiglas joint trim (2) with screw (1) over the joint areas of plexiglas (3).
## PARTS INFORMATION

### Operational Parts List

<table>
<thead>
<tr>
<th>Case Usage</th>
<th>Domestic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Circuit</td>
<td>115 Volt 60 Hertz</td>
</tr>
<tr>
<td><strong>Case Size</strong></td>
<td><strong>6’</strong></td>
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<tr>
<td>Fan Motor</td>
<td>5243498</td>
</tr>
<tr>
<td>9 Watt</td>
<td>9 Watt</td>
</tr>
<tr>
<td>Fan Motor Brackets</td>
<td>5962268</td>
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<tr>
<td>Fan Bracket Plate</td>
<td>9041077</td>
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<tr>
<td>Fan Blades (7” 35° 5B)</td>
<td>9044934</td>
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<tr>
<td>Opt. ECM Fan Motor</td>
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<tr>
<td>8 Watt</td>
<td>8 Watt</td>
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<tr>
<td>Opt. ECM Fan Motor Brackets</td>
<td>9025005</td>
</tr>
<tr>
<td>Opt. ECM Fan Blades (7” 35° 5B)</td>
<td>9044934</td>
</tr>
<tr>
<td>T-8 Ballast (canopy &amp; shelf)</td>
<td>5991029</td>
</tr>
<tr>
<td>(canopy / 1-row)</td>
<td>5991030</td>
</tr>
<tr>
<td>(opt. shelf / 2-row or 3-row)</td>
<td>5991030</td>
</tr>
<tr>
<td>T-8 Lampholder (canopy or shelf)</td>
<td>9041897</td>
</tr>
<tr>
<td>Anti-Sweat Heater Wire (top light)</td>
<td>9043426</td>
</tr>
<tr>
<td>Opt. Gas Def. Fan Delay Klixon</td>
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For information on operational parts not listed above contact the TYLER Service Parts Department.
## Cladding and Trim Parts Lists

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<th>Item</th>
<th>Description</th>
<th>6'</th>
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