Welcome to the ORIGIN² display case family. We’re very pleased you joined us.

This installation and operation handbook has been especially prepared for everyone involved with ORIGIN² display cases – owners, managers, installers and maintenance personnel.

You’ll find this book different than traditional manuals. The most dramatic difference is the use of many more illustrated instructions to make it easier to read and to help you get the most from this innovative new design. When you follow the instructions you should expect remarkable performance, attractive fits and finish, and long case life.

We are interested in your suggestions for improvement both in case design and in this handbook. Please call/write to:

Hill PHOENIX
Marketing Services Department
1925 Ruffin Mill Rd.
Colonial Heights, VA 23834
Tel:  804-526-4455
Fax:  804-526-7450

We wish you the very best in outstanding food merchandising and a long trouble-free operation.
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GENERAL INFORMATION

DESCRIPTION OF CASES: The refrigerated display cases described in this handbook are part of the Hill Phoenix, Origin² design series. Specifically covered in this manual is model OIM wide island double wraparound end deli/meat, model OIMB wide island single joint end deli/meat, and OIMBB wide island double joint end deli/meat.

STORE CONDITIONS: Hill Phoenix cases are designed to operate in an air conditioned store with a system that can maintain 75°F (24°C) store temperature and 55 percent (maximum) relative humidity (CRMA conditions). Case operation will be adversely affected by exposure to excessively high ambient temperatures and/or humidity.

REFRIGERATION SYSTEM OPERATION: Air cooled condensing units require ventilation for efficient performance of condensers. Machine room temperatures must be a minimum of 65°F in winter and a maximum of 95°F in summer. Minimum condensing temperatures should be no less than 70°F.

RECEIVING CASES: Examine fixtures carefully for shipping damage and shortages. For information on shortages contact the Service Parts Department at 1-800-283-1109.

APPARENT DAMAGE: A claim for obvious damage must be noted on the freight bill or express receipt and signed by the carriers agent, otherwise the carrier may refuse the claim.

CONCEALED DAMAGE: If damage is not apparent until after the equipment is unpacked, retain all packing materials and submit a written request to the carrier for inspection within 15 days of receipt of equipment.

LOST ITEMS: This equipment has been carefully inspected to insure the highest level of quality. Any claim for lost items must be made to Hill Phoenix within 48 hours of receipt of equipment.

TECHNICAL SUPPORT: If any technical questions arise regarding a refrigerated display case contact our Customer Service Department in Richmond at 1-804-526-4455. For any questions regarding our refrigeration systems or electrical distribution centers contact our Customer Service Department in Conyers at 1-770-285-3200.

CONTACTING FACTORY: Should you need to contact Hill Phoenix regarding a specific fixture, be sure to know the case model number and serial number. This information is on the serial plate located on the rear baffle of the case (see next page for details). Ask for a Service Parts Representative at 1-804-526-4455.

ORIGIN²™
NOTES:

* STUB-UP AREA

* SUCTION LINE - 7/8", LIQUID LINE - 3/8"
GENERAL INFORMATION

BASEHORSE
LOCATIONS FOR
MODELS
OIM, OIMB,
& OIMBB

6' CASE

8' CASE

12' CASE

GENERAL INFORMATION
CASES MOVE ON CASTERS FOR EASIER INSTALLATION

ORIGIN² cases are manufactured and shipped to stores with casters installed on the base frame to make the job of moving cases easier for everyone involved with the manufacturing, shipping and installation process.

CASTERS MAY BE DISCARDED. Casters not only speed up the process, but they also reduce the chance of damage from raising and lowering cases with "J" bar to place them on dollies, skates or rollers. In most situations, one or two persons can move the case with ease.

ROLL OUT OF TRUCK. When there is a truck - level delivery dock, cases may be rolled directly from the truck to the store floor. [CAUTION] If skid boards are required to unload cases, casters should be removed prior to sliding them down the skid; after which they can be reinstalled on case.

ROLL TO LINEUP POSITION. Casters may remain in place to move the cases to staging areas around the store, prior to final installation. When ready for final line-up, roll the case to set position, then remove casters.

REMOVE COTTER PIN. Removing the casters is easy. Simply flatten and hammer out cotter pins then lift the case with "J" bar, and the casters will fall off.

[CAUTION] Make certain hands are out of the way.
**Line Up**

**Consult With General Contractor**
Ask the general contractor if there have been changes in the building dimensions since the print you are using was issued. Also, ask the points of reference from which you should take dimensions to locate the cases.

**Snap Chalk Lines**
Mark floor where cases are to be located for the entire lineup.

**Snap Lines On Base Rail Locations**
Snap lines where base rails are positioned, not the front or back edges of the cases. See case cross section drawing, pages 3-6, for rail location dimensions.

**Level Floor. Use Laser Transit**
Leveling is necessary to assure proper case alignment. Locate highest point on chalk line as reference for determining height of shim-pack levelers. A laser transit is recommended for precision and requires just one person.

**Set Shims On Joint Locations**
Locate case joint positions along chalk lines. Spot shim packs at each joint location and at each basehorse between the joints.

**Position First Case In Lineup and Level**
Move first case into position. Raise case from end under cross support using “J” bar. [CAUTION! Keep hands from underneath case] Level case on shims.
**Position Next Case In Line Up**

Line up the base rails of the next case with the chalk lines on the floor.

**Remove Accessories From Case. Add Sealant.**

Remove anything from case that may interfere with case joining (e.g. shipping braces). Run bead of sealant around entire end before pushing cases tightly together.

**Bolt Cases Together Using Bolt Holes Provided**

Push cases tightly together. Bolt cases together through the five holes provided as shown in the illustration. Tighten until all margins are equal; do not over tighten.

Ask about our case installation video available by request through your local *Hill Phoenix* Sales or Field Service Representative.
TRIM OUT

Now that cases have been positioned and leveled, you may proceed to trim-out case lineup. Trim parts have been designed to be applied easily with only a small number of fasteners required. Most external parts are adjustable to achieve almost invisible, snug-fitting joints and a high level of excellence in fit and finish.

1. If a gap is present in the color band, the master bumper must be removed to gain access to the adjustment screws. Loosen the screws in the panel, located on top of the color band underneath the master bumper, and adjust left or right as required.

2. Close joints of lower panel section by sliding the panels together. Panels are designed to allow movement left or right without removing any fasteners.

3. Adjust polymer master bumper joints, if required. First loosen bumper screws located in recessed trough.

4. Slide bumper joint to center of joint between the two cases. Use screwdriver in hole provided.

5. Slide bumper left or right to close seam as required. Bumper joint neatly finishes any gap that may remain.

6. Install top sill joint covers over case-to-case joint seams, as needed. The top sill joint is shipped loose with the case. Secure with fasteners provided.
11

Insert nose bumper into master bumper channel. Roll nose bumper into channel along entire lineup (up to 96'). We recommend that the nose bumper be left in the store 24 hours before installing. DO NOT STRETCH the bumper during installation as it will shrink to its original length and leave a gap.

10

To attach lower front panel, place in vertical position and insert into retainer as shown above. Panel may be removed for access to electrical raceway and plumbing.

9

Attach the “J” rail. Locate the “J” rail which is shipped loose with the case. Line up the rail to the basehorses and secure with the screws provided.

8

Attach pedestals. Locate the pedestals which are shipped loose with the case. Attach the pedestals to each wrap end of the case with the fasteners provided.

7

Insert kickplate into “J” rail as shown in the illustration above.

NOTE: An easy technique for one person is to press against nose bumper with leg as you guide bumper into channel with a screen spline. Insert bottom first.
Refrigeration components and the refrigeration outlet hole are located to provide the best access for installation and maintenance. On 6' cases the refrigeration outlet hole is located on the right hand side of one side of the case outside the fan plenum as the first diagram below indicates. On 8' and 12' cases the refrigeration outlet hole is positioned on the right hand side of one side of the case underneath the fan plenum as the second diagram below indicates. Access can be gained through a cover plate located in the fan plenum.

The expansion valve and other controls are located on the left-hand side of one side of the case. Look for the refrigeration lines that penetrate the tank underneath the case. The valve and other refrigeration components will be located on this side of the case and are accessible without disassembling the fan plenum. The components may be reached by lifting the left hand end deck pan and the center deck pan.

Be sure to reseal the outlet hole after installation, using a canned foam sealant and white RTV.

Note: The second diagram above shows an 8' case but the refrigeration outlet hole location and expansion valve location are typical for 8' and 12' cases.
The drain outlet is located front and center of both sides for convenient access. The case drain is molded out of ABS material and is attached to a PVC pipe and tee. The “P” trap is constructed of schedule 40 PVC and is 1 1/2” in diameter. The entire drain assembly is attached to the case at the factory. Should any maintenance issues arise, care must be given to make certain that all connections are water tight and sealed with the appropriate PVC or ABS cement.

The lower front panel is shipped attached to the case and the kickplate is shipped loose. Access to the drain area can be easily obtained by removing the lower front panel (and kickplate if it has already been installed). See the diagram below and the Trim Out section of this manual on page 11.
ELECTRICAL HOOKUP

All electrical hookups are made to a junction box located at the bottom right hand front of one side (on opposite side from the expansion valve). Field connections can be made through the bottom or rear of the junction box.

For case-to-case wiring, run “greenfield,” or other conduit, between junction boxes. Field wiring should exit box from right side, furthest away from where case wiring enters the box, to allow more room inside the junction box for wire connecting.

WIRING NUMBERS AND COLORS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>WIRE NUMBER</th>
<th>COLOR CODING</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVAPORATOR FANS, 120 VOLT</td>
<td>3</td>
<td>WHITE</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>BLACK</td>
</tr>
<tr>
<td>LIGHTS, 120 VOLT</td>
<td>11</td>
<td>WHITE</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>BLACK</td>
</tr>
<tr>
<td>ANTI-CONDENSATE HEATERS, 120 VOLT</td>
<td>13</td>
<td>WHITE</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>BLACK</td>
</tr>
<tr>
<td>TEMPERATURE CONTROL, 120 VOLT</td>
<td>19</td>
<td>YELLOW</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>YELLOW</td>
</tr>
<tr>
<td>DEFROST TERMINATION CONTROL, 120 VOLT</td>
<td>21</td>
<td>PURPLE</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>ORANGE</td>
</tr>
<tr>
<td>DEFROST HEATERS, 208/240 VOLTS</td>
<td>L1</td>
<td>RED</td>
</tr>
<tr>
<td></td>
<td>L2</td>
<td>BLUE</td>
</tr>
<tr>
<td>EQUIPMENT GROUNDING CONDUCTOR</td>
<td>-</td>
<td>GREEN</td>
</tr>
</tbody>
</table>
WIRING DIAGRAMS - MODELS OIM-8' & OIMB-8'

ANTI-COND. HEATER FOR TOWER
ANTI-COND. HEATER FOR TOWER
ANTI-COND HEATER FOR CENTER SILL
ANTI-COND HEATER FOR CENTER SILL
DEFROST HEATER FOR SIDE COIL
DEFROST HEATER FOR SIDE COIL

FAN MOTORS (6)

OPTIONAL HIEF. ONLY

CONTROL BOX

PURPLE

ORANGE

DEFROST TERM.CONTROL
CASE OPERATION

Wide Island Deli/Meat Merchandiser
OIM - 8’ & 12’ double wraparound ends
OIMB - 6’, 8’ & 12’ single wraparound end
OIMBB - 8’ double joint ends

Electrical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Fans per Case</th>
<th>Standard Fans</th>
<th>High Efficiency Fans</th>
<th>Anti-Condensate Heaters</th>
<th>Defrost Heaters</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>120 Volts</td>
<td>120 Volts</td>
<td>120 Volts</td>
<td>208 Volts</td>
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<tr>
<td></td>
<td></td>
<td>Amps</td>
<td>Watts</td>
<td>Amps</td>
<td>Watts</td>
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<td></td>
<td></td>
<td>240 Volts</td>
<td></td>
<td>102</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Watts</td>
<td></td>
<td>66</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>102</td>
<td></td>
<td>98</td>
<td>4.34</td>
</tr>
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<td></td>
<td></td>
<td>2.04</td>
<td></td>
<td>88</td>
<td>1.08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.72</td>
<td></td>
<td>88</td>
<td>1.20</td>
</tr>
<tr>
<td>OIM</td>
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<td>102</td>
<td></td>
<td>98</td>
<td>1.08</td>
</tr>
<tr>
<td></td>
<td>6’</td>
<td>2.04</td>
<td></td>
<td>88</td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td>12’</td>
<td>2.72</td>
<td></td>
<td>88</td>
<td>1.20</td>
</tr>
<tr>
<td>OIMB</td>
<td>6’</td>
<td>102</td>
<td></td>
<td>98</td>
<td>1.08</td>
</tr>
<tr>
<td></td>
<td>8’</td>
<td>2.04</td>
<td></td>
<td>88</td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td>12’</td>
<td>2.72</td>
<td></td>
<td>88</td>
<td>1.20</td>
</tr>
<tr>
<td>OIMBB</td>
<td>8’</td>
<td>102</td>
<td></td>
<td>98</td>
<td>1.08</td>
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Lighting Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical per Light Row</th>
<th>Maximum Lighting</th>
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<tr>
<td></td>
<td>120 Volts</td>
<td>120 Volts</td>
</tr>
<tr>
<td></td>
<td>Amps</td>
<td>Watts</td>
</tr>
<tr>
<td></td>
<td>120 Volts</td>
<td>Amps</td>
</tr>
<tr>
<td>OIM</td>
<td>8’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>12’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>605</td>
</tr>
<tr>
<td>OIMB</td>
<td>6’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>12’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>454</td>
</tr>
<tr>
<td>OIMBB</td>
<td>8’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>12’</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>390</td>
</tr>
</tbody>
</table>

Guidelines & Control Settings

<table>
<thead>
<tr>
<th>Model</th>
<th>BTUH/ft²</th>
<th>Evaporator (°F)</th>
<th>Superheat Set Point @ Bulb (°F)</th>
<th>Discharge Air (°F)</th>
<th>Return Air (°F)</th>
<th>Discharge Air Velocity (FPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIM/OIMB/OIMBB</td>
<td>Meat</td>
<td>770⁴</td>
<td>12</td>
<td>6-8</td>
<td>26</td>
<td>31</td>
</tr>
<tr>
<td>OIM/OIMB/OIMBB</td>
<td>Deli</td>
<td>560⁵</td>
<td>17</td>
<td>6-8</td>
<td>28</td>
<td>33</td>
</tr>
</tbody>
</table>

Defrost Controls

<table>
<thead>
<tr>
<th>Model</th>
<th>Defrost Per Day</th>
<th>Run-Off Time (min)</th>
<th>Electric Defrost</th>
<th>Timed Off Defrost</th>
<th>Hot Gas Defrost</th>
<th>Reverse Air Defrost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Fail-safe (min)</td>
<td>Termination Temp. (°F)</td>
<td>Fail-safe (min)</td>
<td>Termination Temp. (°F)</td>
<td>Fail-safe (min)</td>
</tr>
<tr>
<td>OIM/OIMB/OIMBB</td>
<td>3</td>
<td>6 - 8</td>
<td>40</td>
<td>47</td>
<td>45</td>
<td>47</td>
</tr>
</tbody>
</table>

Medium Temperature Defrost Schedule

<table>
<thead>
<tr>
<th>No. Per Day</th>
<th>Hours</th>
<th>All measurements taken per CRMA specifications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12 midnight</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>12 am - 12 pm</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6 am - 2 pm - 10 pm</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>12 - 6 am - 12 - 6 pm</td>
<td></td>
</tr>
</tbody>
</table>
DEFROST AND TEMP CONTROL

These cases are equipped with either Electric, Hot Gas, or Timed Off defrost at the owners option. The sensor bulb and probe for electric defrost termination, the sensor bulb and probe for timed off defrost termination, and the sensor bulb and probe for temperature control are all located behind the rear baffle at the location shown in diagram 1 below. The hot gas defrost termination sensor bulb and probe are attached to the dump line, as shown in diagram 2 below, which is in the front, left hand side of the case.

The defrost termination control thermostat and the temperature control thermostat are located in the junction box located on the bottom left side of the case, as shown in diagram 1 below. In order to gain access to the thermostats it is necessary to remove the lower front panel and kickplate (for details see the Trim Out section of this manual on page 11.)

It is important to consult the control setting guidelines shown on page 19 before setting defrost times. Further adjustments may be required depending on store conditions.
AIR FLOW AND PRODUCT LOADING

Cases have been designed to provide maximum product capacity within the refrigerated air curtain. It is important that you do not overload the food product display so that it blocks the air flow pattern.

Overloading will cause malfunction and the loss of proper temperature levels, particularly when discharge and return air sections are covered. Please keep products below the load limit lines shown on the diagram below.

DISCHARGE ..........1

LOAD LIMIT ..........2

AIR FLOW ..........3

RETURN AIR GRILL ..4

MODELS
OIM, OIMB, & OIMBB
USE AND MAINTENANCE

CASE CLEANING

The case is designed to facilitate cleaning. All surfaces pitch to a drain trough that angles toward the center of each side of the case where the 1 1/2” waste outlet is located. The drain is positioned under the fan plenum and is accessible through a cover plate.

CLEANING PROCEDURES

- A periodic cleaning schedule should be established to maintain proper sanitation, insure maximum operating efficiency, and avoid the corrosive action of food fluids left on metal parts for long periods of time. We recommend cleaning at least once a week.

- To avoid shock hazard, be sure all electrical power is turned off before cleaning. In some installations, more than one disconnect switch may have to be turned off to completely de-energize the case.

- Check waste outlet to insure it is not clogged before starting the cleaning and avoid introducing water faster than drip pipe can carry it away.

- Avoid spraying cleaning solutions directly on fans or electrical connections.

- Allow cases to be turned off long enough to clean any frost or ice from coil and flue areas.

- To clean the honeycomb discharge grill (see above) use a soft, long bristle brush and a mild detergent. It may be necessary to use a spray detergent and rinse.

- Use mild detergent and warm water. When necessary, water and baking soda solution will help remove case odors. Avoid abrasive scouring powders or pads.

- For difficult stains that may appear on polymer exterior bumper parts, the following specialty cleaning products are recommended:
  3M brand® Stainless Steel Cleaner and Polish
  3M brand® Troubleshooter Cleaner
  3M brand® Sharpshooter, Extra Strength No Rinse Cleaner
  3M brand® Scotch-Brite No. 64 Cleaning and No. 74 Scrubbing Brushes
  Revere® aluminum powder for tank liner
  Armor All® for polymer parts
FANS

The evaporator fans are equipped with 5 watt fan motors, 1550 RPM’s, counter-clockwise rotation (when viewed from shaft end). The blades are 6” diameter and pitched to varying degrees on each model as shown on the chart below. **It is important that the blade pitch be maintained as specified. DO NOT attempt a field modification by altering the blades.**

Fan motors may be changed with an easy two step process without disassembling the plenum, thereby avoiding the necessity to unload the entire product display to make a change:

1. Unplug the fan motor, easily accessible outside the plenum.
2. Remove three fasteners, then lift out the entire fan basket.

<table>
<thead>
<tr>
<th>Model</th>
<th>OIM-6’</th>
<th>OIMB-6’</th>
<th>OIM-8’</th>
<th>OIMB-8’</th>
<th>OIMB-12’</th>
<th>OIM-12’</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Fans</td>
<td>4</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Blade Pitch</td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
<td>20°</td>
</tr>
</tbody>
</table>

OIMB-6’
2 plenums per case

OIM-8’, OIMB-8’, & OIMBB-8’
2 plenums per case

OIM-12’ & OIMB-12’
2 plenums per case
PARTS ORDERING

MODELS
OIM, OIMB, & OIMBB
# MODEL
**OIM, OIMB, & OIMBB**

<table>
<thead>
<tr>
<th>Location Number</th>
<th>Part Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kickplate, Storm Grey</td>
</tr>
<tr>
<td>2</td>
<td><strong>Master Bumper</strong>, Featherstone, Smoke, White, French Vanilla, Black</td>
</tr>
<tr>
<td>3</td>
<td>Lower Front Panel, Painted</td>
</tr>
<tr>
<td>4</td>
<td>Color Band, Painted</td>
</tr>
<tr>
<td>5</td>
<td><strong>Front Sill Glass</strong>, Plexiglas (Shown) or Thermopane</td>
</tr>
<tr>
<td>6</td>
<td>Flue Glass</td>
</tr>
<tr>
<td>9</td>
<td>Deck Pan, Painted, Unpainted</td>
</tr>
<tr>
<td>11</td>
<td>Front Baffle, Painted</td>
</tr>
<tr>
<td>12</td>
<td>Honeycomb</td>
</tr>
<tr>
<td>15</td>
<td>Rear Baffle</td>
</tr>
<tr>
<td>16</td>
<td>Sill Cap, Center</td>
</tr>
<tr>
<td>17</td>
<td><strong>Nose Bumper</strong>, Polymer Custom Color</td>
</tr>
<tr>
<td>18</td>
<td>Pedestal, Painted</td>
</tr>
<tr>
<td>22</td>
<td>Shelves, 12” and 16” (Not Shown)</td>
</tr>
<tr>
<td>24</td>
<td>“J” Rail, for Kickplate</td>
</tr>
<tr>
<td>30</td>
<td><strong>Corner Bumper</strong>, Featherstone, Smoke, White, French Vanilla, Black</td>
</tr>
<tr>
<td>33</td>
<td>Tower Baffle</td>
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<td>34</td>
<td>Tower Hood, Stainless Steel</td>
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<td>69</td>
<td>Coil, (Not Shown)</td>
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<td>72</td>
<td><strong>Color Band Corner</strong></td>
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<td>81</td>
<td>Wire Racks, (Not Shown)</td>
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<td>83</td>
<td>Thermometer, and Bracket</td>
</tr>
<tr>
<td>E02</td>
<td><strong>Anti-Condensate Heater</strong></td>
</tr>
<tr>
<td>E03</td>
<td><strong>Thermostats</strong>, Temperature and Defrost Termination Control, (Not Shown)</td>
</tr>
<tr>
<td>E09</td>
<td><strong>Fan Motor - STATE HIGH EFFICIENCY OR STANDARD</strong></td>
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<tr>
<td>E10</td>
<td>Fan Blade</td>
</tr>
<tr>
<td>E11</td>
<td>Fan Basket, 6”</td>
</tr>
<tr>
<td>E20</td>
<td><strong>Fan Cord-Set</strong> - High Efficiency or Standard</td>
</tr>
</tbody>
</table>
PARTS ORDERING

Procedure

1. Contact the Service Parts Department

   Hill PHOENIX
   1925 Ruffin Mill Road
   Colonial Heights, Virginia 23834
   Tel: 800-283-1109
   Fax: 804-526-3897

2. Provide the following information about the part you are ordering:

   • Model number and serial number* of the case which the part is needed for.
   • Length of part, if applicable, I.E. 6’, 8’, & 12’.
   • Color of part if painted, or color of polymer part.
   • Quantity.

   *Serial plate is located on the left hand side of case on rear baffle. (See illustrations on pages 3, 4, & 5)

3. If parts are to be returned for credit, ask the Parts Department to furnish you with a Return Materials Authorization Number.
FOURTEEN MONTH WARRANTY. MANUFACTURER’S PRODUCT IS WARRANTED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE AND MAINTENANCE FOR A PERIOD OF FOURTEEN MONTHS FROM THE DATE OF ORIGINAL SHIPMENT. A NEW OR REBUILT PART TO REPLACE ANY DEFECTIVE PART WILL BE PROVIDED WITHOUT CHARGE, PROVIDED THE DEFECTIVE PART IS RETURNED TO MANUFACTURER. THE REPLACEMENT PART ASSUMES THE UNUSED PORTION OF THE WARRANTY.

This warranty does not include labor or other costs incurred for repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts.

The fourteen month warranty shall not apply:

1. To any unit or any part thereof which has been subject to accident, alteration, negligence, misuse or abuse, operation on improper voltage, or which has not been operated in accordance with the manufacturer's recommendation, or if the serial number of the unit has been altered, defaced, or removed.

2. When the unit, or any part thereof, is damaged by fire, flood, or other act of God.

3. Outside the continental United States.

4. To labor cost for replacement of parts, or for freight, shipping expenses, sales tax or upgrading.

5. When the operation is impaired due to improper installation.

6. When installation and startup forms are not properly complete or returned within two weeks after startup.

THIS PLAN DOES NOT COVER CONSEQUENTIAL DAMAGES. Manufacturer shall not be liable under any circumstances for any consequential damages, including loss of profit, additional labor cost, loss of refrigerant or food products, or injury to personnel or property caused by defective material or parts or for any delay in its performance hereunder due to causes beyond its control. The foregoing shall constitute the sole and exclusive remedy of any purchases and the sole and exclusive liability of Manufacturer in connection with this product.

The Warranties are Expressly in Lieu of All Other Warranties, Express of Implied and All Other Obligations or Liabilities on Our Part. The Obligation to Repair or Replace Parts or Components Judged to be Defective in Material or Workmanship States Our Entire Liability Whether Based on Tort, Contract or Warranty. We Neither Assume Nor Authorize Any Other Person to Assume for Us Any Other Liability in Connection with Our Product.

MAIL CLAIM TO:

Hill PHOENIX
Display Merchandisers
1925 Ruffin Mill Road
Colonial Heights, VA  23834
804-526-4455

Hill PHOENIX
Refrigeration Systems &
Electrical Distribution Products
709 Sigman Road
Conyers, GA  30013
770-285-3200
Warning
Maintenance & Case Care

When cleaning cases the following must be performed PRIOR to cleaning:

To avoid electrical shock, be sure all electric power is turned off before cleaning. In some installations, more than one switch may have to be turned off to completely de-energize the case.

Do not spray cleaning solution or water directly on fan motors or any electrical connections.

All lighting receptacles must be dried off prior to insertion and re-energizing the lighting circuit.

Please refer to the Use and Maintenance section of this installation manual.