**Inspection**

When the equipment is received, the number of crates and cartons should be checked against the bill of lading for possible shortages. Any damage should be noted immediately and a report given to the carrier and the HTP factory. It is the customer’s responsibility to file all freight claims with the carrier. Unit name plates should be checked to make sure voltages are in agreement with the power available.

**Installation**

Installation and maintenance to be preformed by qualified personnel who are familiar with the local codes and regulations and who are experienced with this type of equipment. **Caution: Avoid contact with sharp edges and coil surface as they are potential hazards.**

The unit must be installed level for proper drainage. This rear discharge unit, draws air up through the fan blades and discharges out the coils length. Proper clearances should be maintained for proper air flow and service access to the unit as follows: 6” minimum between each coil and wall. The unit should be supported on #10 screws or 1/4” diameter bolts. To meet NSF requirements, the unit must be positioned flush with the ceiling and all gaps properly caulked.

**Refrigerant Connections**

Refrigerant connections should be installed in accordance with all applicable codes and using good refrigeration practices. A suction line trap must be installed prior to any risers in the suction line. Horizontal suction lines should be sloped to provide proper oil return to the compressor. Suction lines should be properly insulated to prevent sweating and higher return gas temperatures.
**Drain Line**

The drain line should be sharply pitched and should exit the enclosure as quickly as possible. The drain line should be insulated and sealed where it passes through the wall and trapped outside the refrigerated area and protected from freezing. In room temperatures below 34°F, the drain line should be heated and insulated.

**Wiring**

Wiring should be done in accordance with all national and local codes. Electric defrost units are supplied with a temperature sensing defrost termination switch which will terminate the defrost at a preset temperature. A fan delay switch is also provided to allow the coil to cool down prior to the fans turning on after defrost. The time clock should be adjusted to have a maximum of a 30 minute override to prevent overheating and steaming of the coils. The number of defrosts per day will be determined by the usage of the box and the frost buildup on the coils. On hot gas units, refer to the system manufacturer’s recommendations.

**Expansion Valve**

Expansion valves are to be installed in accordance with the specific manufacturer’s recommendations. Units that require an external equalized expansion valve must have that line connected. Proper location of the bulb is extremely important to the performance of the coil. Good thermal contact to the suction line is also essential. On solder type valves, a wet cloth wrapped around the valve during installation will protect it from overheating and damage. Superheat settings should be checked after the system has balanced out at the desired room temperature. On systems sized for a 10° to 12°F TD, the valve should be adjusted to maintain 5° to 6°F superheat. Higher TD applications will allow a higher superheat setting. On multiple evaporator systems, the piping should be arranged such that the flow from any valve cannot affect the bulb of another.

**General Maintenance**

General maintenance involves an occasional cleaning of dirt accumulation on the fan, fan guard or coil. The motors are life lubricated and do not require any regular maintenance.

**Wiring Diagrams**

Air Defrost Wiring

Electric Defrost Wiring
### SPECIFICATIONS — Air Defrost Models (+25°F)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>BTUH @ 10° TD</th>
<th>Fan Motors</th>
<th>CFM</th>
<th>Motor Amps 115/1</th>
<th>Motor Amps 230/1</th>
<th>Connections</th>
<th>Dimension*</th>
<th>Ship Wt. (Lbs)</th>
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</thead>
<tbody>
<tr>
<td>ASLA 25-48</td>
<td>4,800</td>
<td>2-16 watt</td>
<td>950</td>
<td>2.2</td>
<td>1.1</td>
<td>1/2FN</td>
<td>39</td>
<td>46-3/16</td>
</tr>
<tr>
<td>ASLA 25-61</td>
<td>6,100</td>
<td>2-16 watt</td>
<td>1,000</td>
<td>2.2</td>
<td>1.1</td>
<td>1/2FN</td>
<td>49</td>
<td>56-3/16</td>
</tr>
<tr>
<td>ASLA 35-73</td>
<td>7,300</td>
<td>3-16 watt</td>
<td>1,425</td>
<td>3.3</td>
<td>1.7</td>
<td>1/2FN</td>
<td>31</td>
<td>69-3/16</td>
</tr>
<tr>
<td>ASLA 45-98</td>
<td>9,800</td>
<td>4-16 watt</td>
<td>1,900</td>
<td>4.4</td>
<td>2.2</td>
<td>1/2FN</td>
<td>28¼</td>
<td>92-3/16</td>
</tr>
<tr>
<td>ASLA 55-122</td>
<td>12,200</td>
<td>5-16 watt</td>
<td>2,375</td>
<td>5.5</td>
<td>2.8</td>
<td>1/2FN</td>
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<td>115-3/16</td>
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<tr>
<td>ASLA 65-158</td>
<td>15,800</td>
<td>6-16 watt</td>
<td>2,850</td>
<td>6.6</td>
<td>3.3</td>
<td>1/2FN</td>
<td>32¼</td>
<td>138-3/16</td>
</tr>
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</table>

* All dimensions are in inches.

### SPECIFICATIONS — Electric Defrost Models (-10°F)

<table>
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<tr>
<th>Model Number</th>
<th>BTUH @ 10° TD</th>
<th>Fan Motors</th>
<th>CFM</th>
<th>Motor Amps 230/1</th>
<th>Defrost Watts</th>
<th>Defrost Amps</th>
<th>Connections</th>
<th>Dimension*</th>
<th>Ship Wt. (Lbs)</th>
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<tr>
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<td>ASLE 35-70</td>
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<td>32¼</td>
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* All dimensions are in inches.

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**Air & Electric Defrost**

ASLE 25-46 / ASLA 25-48
ASLE 25-58 / ASL 25-61
ASLE 35-70 / ASLA 35-73
ASLE 45-94 / ASLA 45-98
ASLE 55-117 / ASLA 55-122
ASLE 65-150 / ASLE 65-158
## REPLACEMENT PARTS - LISTING BY PRODUCT MODEL NUMBER

### ASL MODELS

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<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
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<tbody>
<tr>
<td>ASL25-46E</td>
<td>DEFROST HEATERS, CORE, 1300 WATTS, 39&quot; LENGTH, 230 V.</td>
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<td>HEATER SAFETY SWITCH, 2 WIRE</td>
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### ASLE & ASL

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