Installation Instructions

Field Conversion Kits
Single Phase or Three Phase Power Connections

GENERAL

WARNING
Hazard of Electric Shock. This kit must be installed by a qualified electrician. Before performing any of the following operations, disconnect all power to the heater to prevent possible fatal injury.

INSTALLATION

Single or three phase power connections may be used with heaters rated LUH/KUH 04-83; 04-23; 05-83; 05-23; 07-81; 07-21; 10-81 and 10-21.

The selected 4 kW and 5 kW units are factory wired for three phase operation and can be changed to single phase using wiring kit p/n 168-304372-002 included with the heater. This kit contains 2 buss bars which are required to make the conversion.

The selected 7.5kW and 10kW units are factory wired for single phase operation and can be changed to three phase wiring using wiring kit p/n 168-304372-001 included with the heater. This kit contains 2 buss bars from A1 to B1 and B2 to C2 should be removed and the jumper wire installed between A1 to C2 as shown in figure 2b. The power wire should be connected from contactor terminal T2 as shown and the T3 wire should be moved to terminal A2. Figure 1c shows the wiring of the unit after conversion to single phase.

A self adhesive electrical ratings data label, Figure 3 is also included with both kits. The appropriate box should be marked to show the installer that the unit has been rewired, this provides the correct circuit and fuse amps data for the modified heater. The label should be affixed to the outside of control compartment door located on the bottom of the heater.
## INSTALLATION

### Figure 2a

#### Additional Wire Supplied When Wiring 3ø

Move From B2 to A2

### Figure 2b

#### Additional Wire Supplied When Wiring 3ø

### Figure 2c

- **A2**
- **B2**
- **C2**
- **A1**
- **B1**
- **C1**

- **T1 T2 T3**

#### Additional Wire Supplied When Wiring 3ø

Move From B2 to A2

When Wiring 3ø

### Electrical Ratings Data For Phase Conversion

<table>
<thead>
<tr>
<th>Nameplate Ratings</th>
<th>Conversion To 1 Phase</th>
<th>Mark the Box Below After Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>Volts</td>
<td>PH</td>
</tr>
<tr>
<td>3.0/4.0</td>
<td>208/240</td>
<td>3</td>
</tr>
<tr>
<td>4.0</td>
<td>208</td>
<td>3</td>
</tr>
<tr>
<td>3.7/5.0</td>
<td>208/240</td>
<td>3</td>
</tr>
<tr>
<td>5.0</td>
<td>208</td>
<td>3</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>kW</td>
<td>Volts</td>
<td>PH</td>
</tr>
<tr>
<td>5.6/7.5</td>
<td>208/240</td>
<td>1</td>
</tr>
<tr>
<td>7.5</td>
<td>208</td>
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<td>7.5/10.0</td>
<td>208/240</td>
<td>1</td>
</tr>
<tr>
<td>9.7</td>
<td>208</td>
<td>1</td>
</tr>
</tbody>
</table>

See Nameplate For Voltage and kW of Heater

**Figure 3**

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**Limited Warranty:**