INSTALLATION INSTRUCTIONS FOR CRANKCASE HEATER KIT
USED ON ZG/ZC 036, 048, 060 PACKAGED UNITS

Shipping and Packing List

Package 1 of 1 contains:
1- Crankcase heaters
1- Wire harness
Bag assembly containing:
1-Web bushing
1-Washer
1-Screw

Check packaging for shipping damage. Contact the last carrier immediately if any shipping damage is found.

Application

The crankcase heater prevents refrigerant from migrating to the compressor, condensing and mixing with oil when the unit is off. Crankcase heaters are used as follows:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Voltage</th>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>036, 048</td>
<td>208/230</td>
<td>99W61</td>
</tr>
<tr>
<td>036, 048</td>
<td>460/380</td>
<td>99W62</td>
</tr>
<tr>
<td>036, 048</td>
<td>575</td>
<td>99W63</td>
</tr>
<tr>
<td>060</td>
<td>208/230</td>
<td>99W64</td>
</tr>
<tr>
<td>060</td>
<td>460/380</td>
<td>99W65</td>
</tr>
<tr>
<td>060</td>
<td>575</td>
<td>99W66</td>
</tr>
</tbody>
</table>

Installation

1- Disconnect all power to unit and open compressor access panel.
2- Position crankcase heater below dimples on compressors as shown in figure 1. Position belly-band screw over the vertical weld seam on the compressor. Tighten belly-band screw to secure in place.

Note - Tightening the belly-band screw over the compressor seam prevents damage to the heater wire.

3- Remove the knockout located in the outdoor coil support. See figure 2. Insert the web bushing that is included in the bag assembly.
4- Route harness to control box as shown in figure 2.
5- Use markings on wires to connect harness as shown in figure 3. Also refer to unit wiring diagram.
6- Secure crankcase heater ground wires using screw and washer provided in kit. See figure 4.

WARNING
Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

IMPORTANT
Power wiring must be routed and secured away from hot copper piping to avoid melting wiring insulation.
FIGURE 2

REMOVE KNOCKOUT AND INSERT BUSHING PROVIDED IN KIT

ROUTE WIRING THROUGH BUSHING

OUTDOOR COIL SUPPORT

ROUTE WIRING THROUGH BUSHING

OUTDOOR COIL SUPPORT

ROUTE HARNESS THROUGH CONTROL BOX OPENING TO K1

COMPRESSOR AND OUTDOOR COIL NOT SHOWN

K1
WIRING (ZG/ZC)

K1-L2
K1-L1
L1 L2 L3
T1 T2 T3
K1
COMPRESSOR CONTACTOR

FIGURE 3
SECURE GROUND WIRE

FIGURE 4