PRESSURE DROPS IN LINES
for
HP80 REFRIGERANT
(20°C Evaporator Outlet)
SI Units

Dimensions of Type L Copper Tubing

<table>
<thead>
<tr>
<th>Outside Diameter Inches</th>
<th>Inside Diameter Inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-1/8</td>
<td>5.845</td>
<td>148.5</td>
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<tr>
<td>5-1/8</td>
<td>4.875</td>
<td>123.8</td>
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<tr>
<td>4-1/8</td>
<td>3.905</td>
<td>99.2</td>
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<tr>
<td>3-5/8</td>
<td>3.425</td>
<td>87.0</td>
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<tr>
<td>3-1/8</td>
<td>2.945</td>
<td>74.8</td>
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<tr>
<td>2-5/8</td>
<td>2.465</td>
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<td>2-1/8</td>
<td>1.985</td>
<td>50.4</td>
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<td>1-5/8</td>
<td>1.505</td>
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<td>1-3/8</td>
<td>1.265</td>
<td>32.1</td>
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<td>1-1/8</td>
<td>1.025</td>
<td>26.0</td>
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<td>7/8</td>
<td>0.785</td>
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<td>3/4</td>
<td>0.666</td>
<td>16.9</td>
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<tr>
<td>5/8</td>
<td>0.545</td>
<td>13.8</td>
</tr>
<tr>
<td>1/2</td>
<td>0.430</td>
<td>10.9</td>
</tr>
<tr>
<td>3/8</td>
<td>0.315</td>
<td>8.0</td>
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</table>
HP80 REFRIGERANT
PRESSURE DROP IN LINES (20°C Evap. Outlet)

KILOWATTS OF REFRIGERATION

NOTE: Pressure drops do not allow for pulsating flow. If flow is pulsating, use next larger pipe size. Liquid line and discharge lines determined at 20°C evap. and 30°C cond. Other conditions do not appreciably change result. Vapor at evap. outlet assumed to be at 20°C.

EXAMPLE:
15 kW at -40°C evap., 40°C cond.
2-5/8” suction line pressure drop = 0.036 kPa/m
5/8” liquid line pressure drop = 0.46 kPa/m
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