**Technical Information Sheet**

### Physical Properties of Refrigerants

<table>
<thead>
<tr>
<th>Environmental Classification</th>
<th>R-409A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>HCFC</td>
</tr>
<tr>
<td>Boiling Point (1atm, °F)</td>
<td>97.4</td>
</tr>
<tr>
<td>Critical Pressure (psia)</td>
<td>-31.8</td>
</tr>
<tr>
<td>Critical Temperature (°F)</td>
<td>680.7</td>
</tr>
<tr>
<td>Critical Density(lb./ft^3)</td>
<td>224.4</td>
</tr>
<tr>
<td>Liquid Density (20 °F,lb./ft^3)</td>
<td>31.7</td>
</tr>
<tr>
<td>Vapor Density (bp,lb./ft^3)</td>
<td>76.1</td>
</tr>
<tr>
<td>Heat of Vaporization(bp,BTU/lb.)</td>
<td>0.313</td>
</tr>
<tr>
<td>Specific Head Liquid (20 °F, BTU/lb. °F)</td>
<td>94.75</td>
</tr>
<tr>
<td>Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)</td>
<td>0.2908</td>
</tr>
<tr>
<td>Ozone Depletion Potential (CFC 11 -1.0)</td>
<td>0.1685</td>
</tr>
<tr>
<td>Global Warming Potential (CO₂ = 1.0)</td>
<td>0.047</td>
</tr>
<tr>
<td>ASHRAE Standard 34 Safety Rating</td>
<td>1585</td>
</tr>
<tr>
<td></td>
<td>A1</td>
</tr>
</tbody>
</table>

### Pressure- Temp

<table>
<thead>
<tr>
<th>Temp °F</th>
<th>Liquid psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>-30</td>
<td>0.2&quot;</td>
</tr>
<tr>
<td>-25</td>
<td>1.8</td>
</tr>
<tr>
<td>-20</td>
<td>3.9</td>
</tr>
<tr>
<td>-15</td>
<td>6.2</td>
</tr>
<tr>
<td>-10</td>
<td>8.7</td>
</tr>
<tr>
<td>-5</td>
<td>11.4</td>
</tr>
<tr>
<td>0</td>
<td>14.4</td>
</tr>
<tr>
<td>5</td>
<td>17.6</td>
</tr>
<tr>
<td>10</td>
<td>21.1</td>
</tr>
<tr>
<td>15</td>
<td>24.9</td>
</tr>
<tr>
<td>20</td>
<td>29</td>
</tr>
<tr>
<td>25</td>
<td>33.4</td>
</tr>
<tr>
<td>30</td>
<td>38.1</td>
</tr>
<tr>
<td>35</td>
<td>43.2</td>
</tr>
<tr>
<td>40</td>
<td>48.6</td>
</tr>
<tr>
<td>45</td>
<td>54.4</td>
</tr>
<tr>
<td>50</td>
<td>60.6</td>
</tr>
<tr>
<td>55</td>
<td>67.2</td>
</tr>
<tr>
<td>60</td>
<td>74.2</td>
</tr>
<tr>
<td>65</td>
<td>81.7</td>
</tr>
<tr>
<td>70</td>
<td>89.6</td>
</tr>
<tr>
<td>75</td>
<td>98</td>
</tr>
<tr>
<td>80</td>
<td>107</td>
</tr>
<tr>
<td>85</td>
<td>116</td>
</tr>
<tr>
<td>90</td>
<td>126</td>
</tr>
<tr>
<td>95</td>
<td>137</td>
</tr>
<tr>
<td>100</td>
<td>148</td>
</tr>
<tr>
<td>105</td>
<td>159</td>
</tr>
<tr>
<td>110</td>
<td>172</td>
</tr>
<tr>
<td>115</td>
<td>184</td>
</tr>
<tr>
<td>120</td>
<td>198</td>
</tr>
<tr>
<td>125</td>
<td>212</td>
</tr>
<tr>
<td>130</td>
<td>227</td>
</tr>
<tr>
<td>135</td>
<td>242</td>
</tr>
<tr>
<td>140</td>
<td>258</td>
</tr>
</tbody>
</table>

---

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

*This information is believed to be accurate and reliable but is provided for guidance only. A-Gas accept no responsibility and the user assumes all risks and liability for use of this information.*

*Version 2.2218*
<table>
<thead>
<tr>
<th>Vapor psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.8&quot;</td>
</tr>
<tr>
<td>7.0&quot;</td>
</tr>
<tr>
<td>3.8&quot;</td>
</tr>
<tr>
<td>0.3&quot;</td>
</tr>
<tr>
<td>1.7</td>
</tr>
<tr>
<td>3.8</td>
</tr>
<tr>
<td>6.1</td>
</tr>
<tr>
<td>8.6</td>
</tr>
<tr>
<td>11.4</td>
</tr>
<tr>
<td>14.4</td>
</tr>
<tr>
<td>17.6</td>
</tr>
<tr>
<td>21.2</td>
</tr>
<tr>
<td>25.0</td>
</tr>
<tr>
<td>29.2</td>
</tr>
<tr>
<td>33.6</td>
</tr>
<tr>
<td>38.5</td>
</tr>
<tr>
<td>43.6</td>
</tr>
<tr>
<td>49.2</td>
</tr>
<tr>
<td>55.2</td>
</tr>
<tr>
<td>61.5</td>
</tr>
<tr>
<td>68.4</td>
</tr>
<tr>
<td>75.6</td>
</tr>
<tr>
<td>3.4</td>
</tr>
<tr>
<td>91.6</td>
</tr>
<tr>
<td>100</td>
</tr>
<tr>
<td>110</td>
</tr>
<tr>
<td>120</td>
</tr>
<tr>
<td>130</td>
</tr>
<tr>
<td>141</td>
</tr>
<tr>
<td>153</td>
</tr>
<tr>
<td>165</td>
</tr>
<tr>
<td>178</td>
</tr>
<tr>
<td>192</td>
</tr>
<tr>
<td>207</td>
</tr>
<tr>
<td>222</td>
</tr>
</tbody>
</table>