**Station Information**

<table>
<thead>
<tr>
<th>Station name</th>
<th>WMO#</th>
<th>Lat</th>
<th>Long</th>
<th>Elev</th>
<th>StdP</th>
<th>Hours +/-</th>
<th>Time zone code</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIYADH (SAUD-AFB)</td>
<td>404380</td>
<td>24.72N</td>
<td>46.72E</td>
<td>612</td>
<td>94.19</td>
<td>3.00</td>
<td>ARB</td>
<td>8201</td>
</tr>
</tbody>
</table>

**Annual Heating and Humidification Design Conditions**

<table>
<thead>
<tr>
<th>Coldest month</th>
<th>Heating DB</th>
<th>Humidification DP/MC/DB and HR</th>
<th>Coldest month</th>
<th>WS/MCDB</th>
<th>MCWS/PCWD to 99.6% DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>99.6%</td>
<td>99% DP</td>
<td>99.6%</td>
<td>99%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5.8</td>
<td>3.0a DP</td>
<td>1.1</td>
<td>2.05</td>
<td>11.9</td>
</tr>
<tr>
<td></td>
<td>7.1</td>
<td>1.1</td>
<td>-14.8</td>
<td>42.8</td>
<td>18.0</td>
</tr>
<tr>
<td></td>
<td>-14.8</td>
<td>1.0a</td>
<td>1.1</td>
<td>20.8</td>
<td>36.0</td>
</tr>
<tr>
<td></td>
<td>25.1</td>
<td>1.0a</td>
<td>1.5</td>
<td>35.6</td>
<td>19.3</td>
</tr>
<tr>
<td></td>
<td>36.4</td>
<td>1.0a</td>
<td>1.5</td>
<td>36.4</td>
<td>19.3</td>
</tr>
<tr>
<td></td>
<td>4.6</td>
<td>1.0a</td>
<td>1.5</td>
<td>16.2</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>320</td>
<td>1.0a</td>
<td>1.5</td>
<td>16.2</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Annual Cooling, Dehumidification, and Enthalpy Design Conditions**

<table>
<thead>
<tr>
<th>Hottest month</th>
<th>Cooling DB/MCWB</th>
<th>Evaporation WB/MCDB</th>
<th>MCWS/PCWD to 0.4% DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>9.4</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>43.5</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>18.0</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>21.9</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>14.9</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>22.0</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>25.1</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>36.0</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>35.6</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>19.3</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>36.4</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>19.3</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>36.4</td>
<td>1.0</td>
<td>1.4</td>
</tr>
</tbody>
</table>

**Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures**

<table>
<thead>
<tr>
<th>%</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB MCWB</td>
<td>18a</td>
<td>18b</td>
<td>18c</td>
<td>18d</td>
<td>18e</td>
<td>18f</td>
</tr>
<tr>
<td>0.4%</td>
<td>27.6</td>
<td>14.2</td>
<td>30.2</td>
<td>14.9</td>
<td>34.2</td>
<td>19.1</td>
</tr>
<tr>
<td>1%</td>
<td>26.7</td>
<td>13.6</td>
<td>29.0</td>
<td>14.5</td>
<td>33.2</td>
<td>18.2</td>
</tr>
<tr>
<td>2%</td>
<td>25.4</td>
<td>13.2</td>
<td>27.8</td>
<td>14.0</td>
<td>32.2</td>
<td>18.1</td>
</tr>
</tbody>
</table>

**Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures**

<table>
<thead>
<tr>
<th>%</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB MCWB</td>
<td>18a</td>
<td>18b</td>
<td>18c</td>
<td>18d</td>
<td>18e</td>
<td>18f</td>
</tr>
<tr>
<td>0.4%</td>
<td>45.8</td>
<td>18.4</td>
<td>45.2</td>
<td>19.4</td>
<td>43.1</td>
<td>18.4</td>
</tr>
<tr>
<td>1%</td>
<td>45.0</td>
<td>18.4</td>
<td>44.8</td>
<td>19.1</td>
<td>42.5</td>
<td>18.1</td>
</tr>
<tr>
<td>2%</td>
<td>44.2</td>
<td>18.1</td>
<td>44.1</td>
<td>18.8</td>
<td>42.0</td>
<td>17.9</td>
</tr>
</tbody>
</table>

**Monthly Mean Daily Temperature Range**

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>20a</td>
<td>20b</td>
<td>20c</td>
<td>20d</td>
<td>20e</td>
<td>20f</td>
</tr>
<tr>
<td>0.4%</td>
<td>10.9</td>
<td>11.3</td>
<td>11.4</td>
<td>12.2</td>
<td>12.9</td>
<td>13.9</td>
</tr>
<tr>
<td>1%</td>
<td>11.3</td>
<td>11.4</td>
<td>11.4</td>
<td>12.2</td>
<td>12.9</td>
<td>13.9</td>
</tr>
</tbody>
</table>

**WMO#** World Meteorological Organization number  
**Elev** Elevation, m  
**StdP** Standard pressure at station elevation, kPa  
**DB** Dry bulb temperature, °C  
**WS** Wind speed, m/s  
**MCDB** Mean coincident dry bulb temperature, °C  
**PCWD** Prevailing coincident wind direction, °, 0 = North, 90 = East