### Annual Heating and Humidification Design Conditions

<table>
<thead>
<tr>
<th>Coldest Month Heating DB</th>
<th>Humidification DP/MCDB and HR</th>
<th>Coldest month WS/MCDB</th>
<th>MCWS/PCWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
</tr>
<tr>
<td>DP (f)</td>
<td>HR (e)</td>
<td>MCDP (d)</td>
<td>MCDHR (c)</td>
</tr>
<tr>
<td>99%</td>
<td>99%</td>
<td>99%</td>
<td>99%</td>
</tr>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(d)</td>
<td>(e)</td>
</tr>
</tbody>
</table>

1. 7 : 4.0 5.2 -1.9 3.2 23.0 -0.1 3.8 21.1 11.2 16.0 10.1 15.7 1.5 40

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

<table>
<thead>
<tr>
<th>Hottest Month Hottest DB Range</th>
<th>Cooling DB/MCWB</th>
<th>Evaporation WS/MCWB</th>
<th>MCWS/PCWD to 0.4% DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4%</td>
<td>1%</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>DP (f)</td>
<td>HR (e)</td>
<td>MCDP (d)</td>
<td>MCDHR (c)</td>
</tr>
<tr>
<td>0.4%</td>
<td>1%</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>(a)</td>
<td>(b)</td>
<td>(d)</td>
<td>(e)</td>
</tr>
</tbody>
</table>

2. 2 : 13.2 37.2 19.2 35.2 19.2 33.3 18.9 22.1 30.8 21.2 29.8 20.6 28.8 5.3 240

### Extreme Annual Design Conditions

<table>
<thead>
<tr>
<th>Extreme Annual WS</th>
<th>Extreme Annual DB</th>
<th>Extreme Annual n-Year Return Period Values of Extreme DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1%</td>
<td>2.3%</td>
<td>5%</td>
</tr>
<tr>
<td>Max Wb</td>
<td>Mean</td>
<td>Standard deviation</td>
</tr>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td></td>
<td>(i)</td>
<td>(j)</td>
</tr>
</tbody>
</table>

3. 11.1 : 9.8 8.9 28.2 1.7 41.5 1.3 1.6 0.8 42.6 0.0 43.5 -0.7 44.4 -1.7 45.6

### Monthly Climatic Design Conditions

#### Precipitation

<table>
<thead>
<tr>
<th>Annual Precaveg</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precaveg (p)</td>
<td>763</td>
<td>7</td>
<td>15</td>
<td>17</td>
<td>41</td>
<td>97</td>
<td>157</td>
<td>155</td>
<td>115</td>
<td>75</td>
<td>42</td>
<td>25</td>
</tr>
<tr>
<td>Precaveg (q)</td>
<td>1041</td>
<td>63</td>
<td>150</td>
<td>63</td>
<td>130</td>
<td>229</td>
<td>318</td>
<td>248</td>
<td>193</td>
<td>163</td>
<td>125</td>
<td>76</td>
</tr>
<tr>
<td>Precaveg (r)</td>
<td>478</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>15</td>
<td>28</td>
<td>63</td>
<td>18</td>
<td>12</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Precaveg (s)</td>
<td>134.7</td>
<td>12.4</td>
<td>25.5</td>
<td>18.5</td>
<td>30.3</td>
<td>50.5</td>
<td>64.6</td>
<td>47.0</td>
<td>40.2</td>
<td>31.6</td>
<td>24.3</td>
<td>19.7</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures</th>
<th>DB</th>
<th>MCWB</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4%</td>
<td>40.0</td>
<td>39.5</td>
</tr>
<tr>
<td>2%</td>
<td>19.7</td>
<td>19.0</td>
</tr>
</tbody>
</table>

#### Mean Daily Temperature Range

<table>
<thead>
<tr>
<th>Mean Daily Temperature Range</th>
<th>5% DB</th>
<th>5% WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDRB (b)</td>
<td>13.2</td>
<td>12.5</td>
</tr>
<tr>
<td>MDCBR (c)</td>
<td>16.4</td>
<td>15.7</td>
</tr>
<tr>
<td>MDCBR (d)</td>
<td>5.7</td>
<td>5.6</td>
</tr>
</tbody>
</table>

### Nomenclature

See separate page