### Design conditions for CHANGCHUN, China

#### 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 +/- UTC</th>
<th>Time zone code</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANGCHUN</td>
<td>541610</td>
<td>43.90N</td>
<td>125.22E</td>
<td>238</td>
<td>98.50</td>
<td>8.00</td>
<td>CHN</td>
<td>8201</td>
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</tbody>
</table>

#### Annual Heating and Humidification Design Conditions

| Month | Design 1% Heating DB | Humidification Design 1% DP/MCDB and HR | Design 1% Cooling DB/MCWB | Enthalpy Design Mean MCDB |月 | W | MCDB | WB | MCDB | WB | MCDB | WB | MCDB | WB |
|-------|----------------------|-----------------------------------------|--------------------------|--------------------------|---|---|-----|-----|------|----|------|-----|------|----|------|-----|
| 2     | 99.6%                | 99%                                     | DP                        | HR                        | 99%| 99%| 99%| 99%| 99%   | 99%| 99%   | 99%| 99%   | 99%| 99%   | 99%|
|       | 2                   | 3a                                      | 4a                        | 4c                        | 4d | 4e | 4f | 5a  | 5b    | 5c | 5d    | 5e | 6a    | 6b | 6c    | 6d |
| 1     | -24.9               | -22.7                                   | -30.5                     | 0.2                       | -22.9| -28.2| 0.3 | -20.8| 13.7   | -3.8| 11.2   | -9.1| 2.3    | 220 |

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

<table>
<thead>
<tr>
<th>Month</th>
<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></td>
<td></td>
<td>DB</td>
<td>MCBW</td>
<td>DB</td>
<td>MCBW</td>
<td>DB</td>
<td>MCBW</td>
</tr>
<tr>
<td></td>
<td>0.4%</td>
<td>18a</td>
<td>18b</td>
<td>18c</td>
<td>18d</td>
<td>18e</td>
<td>18f</td>
</tr>
<tr>
<td></td>
<td>1%</td>
<td>19a</td>
<td>19b</td>
<td>19c</td>
<td>19d</td>
<td>19e</td>
<td>19f</td>
</tr>
<tr>
<td></td>
<td>2%</td>
<td>20a</td>
<td>20b</td>
<td>20c</td>
<td>20d</td>
<td>20e</td>
<td>20f</td>
</tr>
</tbody>
</table>

#### Monthly Mean Daily Temperature Range

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>20a</td>
<td>20b</td>
<td>20c</td>
<td>20d</td>
<td>20e</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20f</td>
<td>20g</td>
<td>20h</td>
<td>20i</td>
<td>20j</td>
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</tbody>
</table>

| Period | 99% | 99% | 10.8 | 10.7 | 9.3 | 7.4 | 7.7 | 10.1 | 9.9 | 8.4 | 8.3 |

**Notes:**
- **DB** Dry bulb temperature, °C
- **MCDB** Mean coincident dry bulb temperature, °C
- **MCWB** Mean coincident wet bulb temperature, °C
- **MCWS** Mean coincident wind speed, m/s
- **PCWD** Prevailing coincident wind direction, °, 0 = North, 90 = East
- **StdP** Standard pressure at station elevation, kPa