

**1323.0642 SECTION 6.4.2, LOAD CALCULATIONS.**

ASHRAE Standard 90.1, Section 6.4.2, is deleted and replaced with the following Section 6.4.2 and Table 6.4.2:

**6.4.2 Load calculations.** Heating and cooling system design loads for the purpose of sizing systems and equipment shall be determined in accordance with Minnesota Mechanical Code, chapter 1346.

**6.4.2.1 Outdoor design conditions.** Outdoor design conditions shall be selected from Table 6.4.2.1. Locations not listed in Table 6.4.2.1 shall use those of the listed city with geographical proximity and similar climate conditions as approved by the building official.

**TABLE 6.4.2.1 Outdoor Design Conditions**

| <b>City</b>          | <b>Summer Db/Wb °F</b> | <b>Winter Db °F</b> |
|----------------------|------------------------|---------------------|
| Aitkin               | 82/72                  | -24                 |
| Albert Lea           | 85/72                  | -15                 |
| Alexandria           | 86/70                  | -21                 |
| Bemidji              | 84/68                  | -24                 |
| Brainerd             | 86/71                  | -20                 |
| Cloquet              | 82/68                  | -20                 |
| Crookston            | 84/70                  | -27                 |
| Duluth               | 81/67                  | -20                 |
| Ely                  | 82/68                  | -29                 |
| Eveleth              | 82/68                  | -26                 |
| Faribault            | 86/73                  | -16                 |
| Fergus Falls         | 86/71                  | -21                 |
| Grand Rapids         | 81/67                  | -23                 |
| Hibbing              | 82/68                  | -19                 |
| International Falls  | 83/67                  | -28                 |
| Litchfield           | 85/71                  | -18                 |
| Little Falls         | 86/71                  | -20                 |
| Mankato              | 86/72                  | -15                 |
| Minneapolis/St. Paul | 88/72                  | -15                 |

|                   |       |     |
|-------------------|-------|-----|
| Montevideo        | 86/72 | -17 |
| Mora              | 84/70 | -21 |
| Morris            | 84/72 | -21 |
| New Ulm           | 87/73 | -15 |
| Owatonna          | 86/73 | -16 |
| Pequot Lakes      | 84/68 | -23 |
| Pipestone         | 85/73 | -15 |
| Redwood Falls     | 89/73 | -17 |
| Rochester         | 85/72 | -17 |
| Roseau            | 82/70 | -29 |
| St. Cloud         | 86/71 | -20 |
| Thief River Falls | 82/68 | -25 |
| Tofte             | 75/61 | -14 |
| Warroad           | 83/67 | -29 |
| Wheaton           | 84/71 | -20 |
| Willmar           | 85/71 | -20 |
| Winona            | 88/74 | -13 |
| Worthington       | 84/71 | -14 |

**Statutory Authority:** *MS s 326B.02; 326B.101; 326B.106; 326B.13*

**History:** *33 SR 1473*

**Published Electronically:** *June 17, 2009*