§ 431.63 Door angle means:

(1) For equipment with flat doors, the angle between a vertical line and the line formed by the plane of the door, when the equipment is viewed in cross-section; and

(2) For equipment with curved doors, the angle formed between a vertical line and the straight line drawn by connecting the top and bottom points where the display area glass joins the cabinet, when the equipment is viewed in cross-section.

Holding temperature application means a use of commercial refrigeration equipment other than a pull-down temperature application, except a blast chiller or freezer.

Horizontal Closed means equipment with hinged or sliding doors and a door angle greater than or equal to 45°.

Horizontal Open means equipment without doors and an air-curtain angle greater than or equal to 80° from the vertical.

Ice-cream freezer means a commercial freezer that is designed to operate at or below −5°F (−21°C) and that the manufacturer designs, markets, or intends for the storing, displaying, or dispensing of ice cream.

Integrated average temperature means the average temperature of all test package measurements taken during the test.

Pull-down temperature application means a commercial refrigerator with doors that, when fully loaded with 12 ounce beverage cans at 90 degrees F, can cool those beverages to an average stable temperature of 38 degrees F in 12 hours or less.

Remote condensing unit means a factory-made assembly of refrigerating components designed to compress and liquefy a specific refrigerant that is remotely located from the refrigerated equipment and consists of 1 or more refrigerant compressors, condenser fans and motors, and factory supplied accessories.

Self-contained condensing unit means a factory-made assembly of refrigerating components designed to compress and liquefy a specific refrigerant that is an integral part of the refrigerated equipment and consists of 1 or more refrigerant compressors, condenser fans and motors, and factory supplied accessories.

Seminvertical Open means equipment without doors and an air-curtain angle greater than or equal to 10° and less than 80° from the vertical.

Vertical package means a packaged material that is used as a standard product temperature-measuring device.

Vertical Closed means equipment with hinged or sliding doors and a door angle less than 45°.

Vertical Open means equipment without doors and an air-curtain angle greater than or equal to 0° and less than 10° from the vertical.

Wedge case means a commercial refrigerator, freezer, or refrigerator-freezer that forms the transition between two regularly shaped display cases.

(70 FR 69414, Oct. 18, 2005, as amended at 71 FR 71369, Dec. 8, 2006; 74 FR 1139, Jan. 9, 2009)

TEST PROCEDURES

§ 431.63 Materials incorporated by reference.

(a) General. We incorporate by reference the following standards into Subpart C of Part 431. The material listed has been approved for incorporation by reference by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR 51. Any subsequent amendment to a standard by the standard-setting organization will not affect the DOE regulations unless and until amended by DOE. Material is incorporated as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030 or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. Also, this material is available for inspection at U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies Program, 6th Floor, 950 L’Enfant Plaza, SW., Washington, DC 20024, 202-586-2945, or go to: http://www1.eere.energy.gov/buildings/
§ 431.64 Uniform test method for the measurement of energy consumption of commercial refrigerators, freezers, and refrigerator-freezers.

(a) Scope. This section provides the test procedures for measuring, pursuant to EPCA, the daily energy consumption in kilowatt hours per day (kWh/day) for a given product category and volume or total display area of commercial refrigerators, freezers, and refrigerator-freezers.


(2) Conduct the testing required in paragraphs (b)(1) of this section, and determine the daily energy consumption, at the applicable integrated average temperature in the following table. The integrated average temperature is determined using the required test method.

<table>
<thead>
<tr>
<th>Category</th>
<th>Test procedure</th>
<th>Integrated average temperatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Refrigerator with Solid Door(s)</td>
<td>ARI Standard 1200–2006</td>
<td>38 °F (±2 °F).</td>
</tr>
<tr>
<td>(ii) Refrigerator with Transparent Door(s)</td>
<td>ARI Standard 1200–2006</td>
<td>38 °F (±2 °F).</td>
</tr>
<tr>
<td>(iii) Freezer with Solid Door(s)</td>
<td>ARI Standard 1200–2006</td>
<td>0 °F (±2 °F).</td>
</tr>
<tr>
<td>(iv) Freezer with Transparent Door(s)</td>
<td>ARI Standard 1200–2006</td>
<td>0 °F (±2 °F).</td>
</tr>
<tr>
<td>(v) Refrigerator-Freezer with Solid Door(s)</td>
<td>ARI Standard 1200–2006</td>
<td>38 °F (±2 °F) for refrigerator compartment.</td>
</tr>
<tr>
<td>(vi) Commercial Refrigerator with a Self-Contained Condensing Unit Designed for Pull-Down Temperature Applications and Transparent Doors.</td>
<td>ARI Standard 1200–2006</td>
<td>0 °F (±2 °F) for freezer compartment.</td>
</tr>
</tbody>
</table>

(A) For low temperature applications, the integrated average temperature of all test package averages shall be 0 °F (±2 °F).

(B) For medium temperature applications, the integrated average temperature of all test package averages shall be 38.0 °F (±2 °F).