This American National Standard (ANS) is a national voluntary consensus Standard developed under the auspices of ASHRAE. Consensus is defined by the American National Standards Institute (ANSI), of which ASHRAE is a member and which has approved this Standard as an ANS, as “substantial agreement reached by directly and materially affected interest categories. This signifies the concurrence of more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution.” Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory through legislation.

ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review. ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees.

The Senior Manager of Standards of ASHRAE should be contacted for:
- interpretation of the contents of this Standard,
- participation in the next review of the Standard,
- offering constructive criticism for improving the Standard, or
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ASHRAE INDUSTRIAL ADVERTISING POLICY ON STANDARDS

ASHRAE Standards and Guidelines are established to assist industry and the public by offering a uniform method of testing for rating purposes, by suggesting safe practices in designing and installing equipment, by providing proper definitions of this equipment, and by providing other information that may serve to guide the industry. The creation of ASHRAE Standards and Guidelines is determined by the need for them, and conformance to them is completely voluntary.

In referring to this Standard or Guideline and in marking of equipment and in advertising, no claim shall be made, either stated or implied, that the product has been approved by ASHRAE.
Addendum t to Standard 34-2019

Add the following data to Tables 4-1, and D-1, and E-1 in the columns indicated.

### Table 4-1 Refrigerant Data and Safety Classifications

<table>
<thead>
<tr>
<th>Refrigerant Number</th>
<th>Chemical Name</th>
<th>Chemical Formula</th>
<th>OEL</th>
<th>Safety Group</th>
<th>RCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-13I1</td>
<td>trifluoriodomethane</td>
<td>CF3I</td>
<td>500 ppm v/v</td>
<td>A1</td>
<td>2000 ppm v/v; 1.0 lb/Mcf; 16 g/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Highly Toxic or Toxic Under Code Classification</td>
<td>Neither</td>
</tr>
</tbody>
</table>

### Table D-1 Refrigerant Data

<table>
<thead>
<tr>
<th>Refrigerant Number</th>
<th>Chemical Name</th>
<th>Chemical Formula</th>
<th>Relative Molar Mass</th>
<th>Normal Boiling Point (°F)</th>
<th>Normal Boiling Point (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-13I1</td>
<td>trifluoriodomethane</td>
<td>CF3I</td>
<td>195.9 g/mol</td>
<td>-7.4</td>
<td>-21.9</td>
</tr>
</tbody>
</table>

### Table E-1 Toxicity Table for Standard 34

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Chemical Name</th>
<th>LC₅₀</th>
<th>Cardiac Sensitization LOEL</th>
<th>Cardiac Sensitization NOEL</th>
<th>Anesthesia EC₅₀</th>
<th>Anesthesia LOEL</th>
<th>Anesthesia NOEL</th>
<th>Other</th>
<th>ATEL</th>
<th>ODL</th>
<th>FCL</th>
<th>RCL</th>
<th>LFL</th>
<th>ATEL Source</th>
<th>RCL Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-13I1</td>
<td>trifluoriodomethane</td>
<td>128,000</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>2000</td>
<td>140,000</td>
<td>ND</td>
<td>2000</td>
<td>ND</td>
<td>Cardiac Sensitization</td>
<td>ATEL</td>
</tr>
</tbody>
</table>

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.
ASHRAE is concerned with the impact of its members’ activities on both the indoor and outdoor environment. ASHRAE’s members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE’s short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its Handbook, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system’s intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE’s primary concern for environmental impact will be at the site where equipment within ASHRAE’s scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.
About ASHRAE
ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability. Through research, Standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today.

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