

American National Standard

Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers

ANSI/AHAM HRF-1-2004

(Revision of ANSI/AHAM HRF-1-2002)

Modified May 2006



PREFACE

The Association of Home Appliance Manufacturers develops standards in accordance with AHAM's "Policy and Procedures Governing Technical Standards" which states:

“AHAM Standards shall be in the best interest, mutually, of consumers who use appliances, the industries which provide and service appliances, and other interested parties. They shall relate to actual use conditions and be technically and scientifically sound.”

Use or observance of AHAM standards is voluntary.

AHAM standards are presented to the American National Standards Institute (ANSI) for recognition as American National Standards. This edition of this standard was approved by ANSI on July 7, 2004, and is currently published as ANSI/AHAM HRF-1-2004. This edition superseded ANSI/AHAM HRF-1-2002.

This standard contains test procedures that may be applied to any brand or model of household electric refrigerator, refrigerator-freezer or freezer for measuring performance. Results of tests in accordance with this standard may be publicly stated.

With regard to safety, AHAM recommends that all appliance products--both major and portable--manufactured or marketed in the United States be submitted to an appropriate independent laboratory for inspection and listing in conformance with the safety standards and procedures followed by such laboratories. The relevant standard for refrigerators, refrigerator-freezers and freezers is ANSI/UL 250/CSA C22.2 No. 63 "Standard for Safety, Household Refrigerators and Freezers".

AHAM welcomes comments and suggestions regarding this standard. Any standard may be reviewed and improved as needed. All standards must be updated or reconfirmed at least every five years. Any interested party, at any time, may request a change in an AHAM standard. Such request should be addressed to AHAM's President, and should be accompanied by a statement of reason for the request and a suggested alternate proposal.

NOTE – MODIFIED MAY 2006: Clause 4.2.1.1 (a) has been editorially modified for clarity. The sentences in the paragraph have been re-arranged. No text has been added or deleted. (5/2/2006).

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1. PURPOSE

1.1 The purpose of this standard is to establish a uniform and repeatable procedure or standard method for measuring specified product characteristics of household refrigerators, household wine chillers and household freezers. The standard methods and the recommended levels of performance, where they appear, are intended to provide a means by which different brands and models of household refrigerators, household wine chillers and household freezers can be compared and evaluated with respect to characteristics of significance in the design and use of the products.

The standard methods and recommended levels of performance are not intended to inhibit improvement and innovation in product testing, design or performance.

2. SCOPE

2.1 This standard applies to household refrigerators as defined in 3.1, household freezers as defined in 3.2 and household wine chillers as defined in 3.3.

2.2 This standard covers definitions, methods for computing volumes and shelf areas, methods for determining volumes of special features, performance test procedures, durability test procedures, methods for determining energy consumption and energy factor, and safety recommendations.

2.3 This standard does not include methods of testing household refrigerators, household wine chillers and household freezers using gas fuel as defined in ANSI Standard Z21.19.

2.4 The principal subdivisions of this standard are as follows:

Section 1 - Purpose

Section 2 - Scope

Section 3 - Definitions

Section 4 - Method for Computing Total Refrigerated Volume and Total Shelf Area of Household Refrigerators and Household Wine Chillers.

Section 5 - Method for Computing Total Refrigerated Volume and Total Shelf Area of Household Freezers

Section 6 - Method for Computing the Volume of Special Features of Household Refrigerators and Household Freezers

Section 7 - Performance Test Procedures and Recommended Levels of Performance for Household Refrigerators and Household Freezers

Section 8 - Method for Determining the Energy Consumption of Household Refrigerators, Household Wine Chillers and Household Freezers

Section 9 - Method for Computing the Energy Factor of Household Refrigerators, Household Wine Chillers and Household Freezers