

SIRIM 65:2024

ICS: 97.040.30

**Healthy purification rating of
refrigerating appliances for household
and similar use -
Requirements and methods of test**

SIRIM Berhad

© Copyright 2024

SIRIM STANDARD

SIRIM Berhad is a premier total solutions provider in quality and technology innovations that helps industries and businesses to compete better through every step of the business value chain.

SIRIM Berhad is the centre of excellence in standardisation, facilitating industries and businesses in enhancing their production and competitiveness, protecting consumers' health and safety, and giving them the choice for quality products and services.

As a standards development organisation, SIRIM Berhad has extensive expertise in standards research and consultancy which helps industries and businesses to meet local and international requirements and practices, through the development of SIRIM Standards.

SIRIM Standards are developed according to SIRIM standardisation procedures with the participation of interested parties. SIRIM Standards are developed through consensus by committees, which consist of experts in the subject matter. The use of SIRIM Standards is voluntary, and it is open for adoption by regulators, government agencies, associations, industries, professional bodies, etc.

For further information on SIRIM Standards, please contact:

Standards Development and Consultancy Section
SIRIM Academy Sdn Bhd
(Company No.: 199701032750 (448249 - A))
1, Persiaran Dato' Menteri
Section 2, P.O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 5544 6089/6088
Email: standards@sirim.my
<http://www.sirimacademy.my>

Contents

	Page
Foreword.....	ii
1 Scope.....	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements.....	2
5 Test method	3
6 Rating and evaluation criteria for healthy purification.....	4
Annex A Test method for deodorisation performance	6
Annex B Test method for antibacterial performance	9
Annex C Test method for bacterial elimination performance	13
Annex D Test method for mould prevention performance	17
Bibliography	18

SIRIM 65:2024

Foreword

The development of standard on *Healthy purification rating of refrigerating appliances for household and similar use - Requirements and methods of test* was funded by Hunan SIRIM Huasheng Certification and Inspection Co., Ltd.

This SIRIM Standard was developed by the Project Committee on Healthy Purification of Refrigerating Appliances for Household and Similar Use established by SIRIM Berhad.

This standard was developed with the following objectives:

- a) to provide a standard that prescribes the requirements and test methods to establish a healthy purification of household refrigerating appliances and similar use; and
- b) to determine the rating and evaluation criteria for healthy purification of household refrigerating appliances and similar use.

Information to assist users of the standard

For the purpose of this standard, the following ISO definitions have been adopted regarding verbal forms for the expression of provisions:

- a) “**shall**” indicates an **auditable requirement**: it is used to indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted;
- b) “**should**” indicates a **recommendation**: it is used to indicate that among several possibilities one is recommended as particularly suitable without mentioning or excluding others, or that certain course of action is preferred but not necessarily required, or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited;
- c) “**may**” indicates a **permission**: it is used to indicate a course of action is permissible within the limits of the document; and
- d) “**can**” indicates a **possibility** or a **capability**: it is used for statements of possibility and capability, whether material, physical or causal.

Compliance with this standard does not by itself grant immunity from legal obligations.