

SRI LANKA STANDARDS INSTITUTION



Labelling of Minimum Energy Performance for Household Refrigerators

GUIDELINES AND PROCEDURES

Doc.
GL/ES/MEPS/02

Issue No.: 01

Date of Issue : 2021-01-01

Effective Date: 2021-01-01

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1. INTRODUCTION:

The Sri Lanka Standards Institution (SLSI) the national standards body of Sri Lanka operates Minimum Energy Performance scheme for Household Refrigerators based **SLS 1690** on Minimum Energy Performance standard (MEPS) for Household Refrigerators.

SLSI offers this scheme to the manufacturers and importers of Household Refrigerators to join this voluntary Minimum Energy Performance Scheme jointly implemented by the SLSI and Sri Lanka Sustainable Energy Authority (SLSEA). Permission to mark Minimum Energy Performance labels will be granted by the SLSI for brand and model basis of Household Refrigerators which conforms to the Energy rating less than or equal **6.5 Wh/ litre/day** in accordance with Minimum Energy performance Standard **SLS 1690**.

2. APPLICABLE STANDARDS

SLS 1690 : Minimum Energy Performance Standard (MEPS) for Household Refrigerators.

3. APPLICATION :

3.1 The brand owner of Household Refrigerators shall forward an application for each model (brand/wattage/type) of the Refrigerator. If the same model is manufactured in factories at different locations separate applications shall be made in respect of each location and the model.

3.2 Duly completed application forms shall be forwarded to the Director (Engineering Standardization), SLSI along with necessary documents.

3.3 Photo or a actual drawing / sketch of each model shall be attached along with the application.

4. FEE INVOLVED:

4.1 Application & Processing fee: Application and processing fee shall be made by the applicant for each model separately as given in the fee structure. (B of GL/ES/FS/01).

4.2 Testing fee: Testing charges shall be borne by the applicant as per the laboratory concern.

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5. SAMPLING AND TESTING:

5.1 Sampling: Samples shall be drawn from each model randomly comprising 3 specimens from minimum population of 10 specimen.

5.1.1 If Refrigerators manufactured locally, samples shall be drawn by the SLSI officers.

5.1.2 If Refrigerators imported, samples shall be drawn randomly from the consignment imported.

5.1.3 If importer obtain test reports from an accredited laboratory in accordance with **SLS 1690**, samples shall be drawn by the laboratory personal randomly from a lot manufactured for export to Sri Lanka and it shall be specified clearly in the test report.

Note: *The importer shall submit a copy of a certification and scope of accreditation.*

5.2 Test methods shall be as specified in **SLS 1690**.

5.2.1 Volume (in litres), Temperature Performance and Energy used shall be measured in accordance with **SLS 1690**, and Energy rating shall be determined according to the formula given in the standard.

6. ENERGY RATING & MEPS:

Energy Rating is the parameter that reflects the Minimum Energy Performance of the product, which is the tool for making this energy rating value comparative. Depending on the Volume and Energy used of the Refrigerator, the Energy rating (Wh/litre/day) shall be determined as given in **SLS 1690**. Refrigerators are qualified for MEPS Labelling if only the Energy rating is less than 6 Wh/ litre/day

7. TEST REPORT:

Test report issued for a particular sample of model from a Testing Authority identified by the SLSI or any international accredited laboratory accepted by SLSI, shall be used for calculation of the Energy rating. The test report should certify that the sampling and testing are in accordance with **SLS 1690** and should provide the test results for the below mentioned parameters in order to calculate the energy rating of the particular model.

- a) Volume (in litres)
- b) Energy Used (in Wh)
- c) Temperature Performance measurements

Note: *If the test report obtained from an accredited laboratory, lot size and sampling method and the method of volume measurement shall be specified in the report.*

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8. CERTIFICATION:

The Director General, SLSI or nominee shall issue certificate to use Minimum Energy Performance label for a model of Refrigerator if energy rating is less than or equal 6.5 Wh/ litre /day, subject to the following conditions.

- a) The Validity period of the Certificate is 3 years. However certificate can be obtained on Annual basis. Annual certification fee shall be settled in advance before issuing the certificate.
- b) Maintenance of the energy rating as per the certification.
- c) The label shall be pasted or printed on the Refrigerator (as seen from the front) and the container.
- d) The brand owner shall inform to the SLSI for renewal at least before 6 months of expiry.
- e) The details of certificate holders shall be forwarded to SLSEA by SLSI to draw market samples randomly for checking the compliance.
- f) Detailed information, with respect to the number of labels, serial numbers of the Refrigerators on which the labels are used shall be made available to SLSEA, to prevent misuse of labels by any party.
- g) The applicant shall enter into an agreement with SLSI.

9. LABELS:

9.2 The label shall have the dimensions, format and all the information as prescribed in the standard. Maximum allowable tolerance limit for label sizing is 5%.

9.3 Printing colours shall be in accordance with the below mentioned scheme, CYMK.

Black	:	C : 0%	M: 0%	Y: 0%	K: 100%
Dark Green	:	C : 59%	M: 24%	Y: 100%	K: 6%
Light Green	:	C : 35%	M: 0%	Y: 100%	K: 0%
White	:	C : 0%	M: 0%	Y: 0%	K: 0%

Note: A sample label is attached herewith.

10. SURVEILLANCE INSPECTION:

10.1 SLSEA shall carry out surveillance inspection at least one per year. Random samples from the market will be drawn for testing and the test results of these samples shall be forwarded to the SLSI.

10.2 In addition to the above, additional sampling and inspection will be carried out, if any complaint received on performance and malfunction. Such inspections will be carried out under close supervision of an operational committee formed by the senior management of SLSEA and SLSI.

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