

Guideline on Updating of Energy Efficiency Grading by New Calculation Methods

I. Introduction

1. In accordance with section 12 of the Energy Efficiency (Labelling of Products) Ordinance, Chapter 598, (hereafter “the Ordinance”), if the Director revises or approves any revisions to the calculation method of the energy efficiency grading of a prescribed product specified in the approved code of practice, the Director is to serve an updating notice on every specified person to whom a reference number that is included in the record has been assigned in respect of the product.
2. In an updating notice, the Director is to—
 - (a) notify the specified person of the new calculation method of the energy efficiency grading of the prescribed product that has been specified in the approved code of practice; and the date on which the new calculation method will take effect (“effective date”);
 - (b) specify a date for the purposes of provisions below (“the specified date”); and
 - (c) require the specified person to submit the reference number assigned to the model of the prescribed product; and the calculation of the energy efficiency grading of the prescribed product in accordance with the new calculation method, and the grading so calculated in a specified form to the Director before the specified date unless he no longer supplies the prescribed product or the prescribed product is an excepted product.
3. Where an updating notice is served on a specified person in respect of a prescribed product, the energy efficiency grading that is to be shown on the energy label of such prescribed product, supplied by that person on or after the specified date, is the energy efficiency grading calculated in accordance with the new calculation method.
4. This guideline is issued for providing guidance for specified persons to submit relevant information in respect of listed models.

II. Updating of Energy Efficiency Grading

1. On updating information for the listed models, the following Form 4 shall be used:

<u>Form</u>	<u>Remark</u>
Form 4 — Specified Person to Update Energy Efficiency Grading on Initiative of Director (EMSD/MEELS004(Jun 24))	Required for <u>EACH</u> listed model

2. For ease of processing the submitted information, in completing Form 4, the technical details of the listed model should be separately provided in the associated schedules (forming part of Form 4) according to its type as below:
 - Listed Model Technical Information Schedule 2A:
Refrigerating Appliance (Applicable to models with

tests conducted based on IEC 62552 ed. 1.1 (2020) only)

- Listed Model Technical Information Schedule 2B:
Refrigerating Appliance (Applicable to models converted from IEC 62552 (2007) test results)
- Listed Model Technical Information Schedule 4:
Washing Machine
- Listed Model Technical Information Schedule 7:
Storage Type Electric Water Heater

3. In completing Form 4, reference should be made to the Code of Practice on Energy Labelling of Products 2024 and EMSD Circular No. 1/2024.
4. Completed Form 4, together with required documents as stated in the form, shall be submitted to the Director in accordance with the Ordinance

III. Guidance Note for Completing Form 4 –Specified Person to Update Energy Efficiency Grading on Initiative of Director (EMSD/MEELS004(Jun 24))

Note: Each page of Form 4 and additional sheet(s) should be properly signed and endorsed with company chop.

Section A: Information of Specified Person Submitting Relevant Information

The specified person who has submitted the specified information in respect of the listed model shall complete section A. All the information should be completed in both English and Chinese, except for the registered address / contact address in Chinese which is optional.

Section B: Basic Information of the Listed Model

The specified person should indicate the type of the listed model for the updating, the reference number assigned under the Ordinance, the product brand and the model name for which reference number has been assigned.

Section C: Supporting Documents / Certificates

This section is provided as a checklist for the person submitting specified information and specified documents to ensure that proper documents / certificates are submitted in order not to cause any hiatus or delay in processing the submission.

- Together with Form 4, the Listed Model Technical Information Schedule for the listed model should be completed. The person should use one of the four schedules for the listed model.
- If the brand/model of the listed model submitted is different from that in the test report, a declaration of identity on the tested model and the listed model should be signed by BOTH the manufacturer AND the person submitting the specified information and documents, and submitted in original.

Section D: Declaration

The person submitting specified information and documents for the listed model should complete item 1 of this section. For a company, a tick ‘✓’ should be put on the item 2. Attention is drawn that the address and telephone number of the company will be disclosed to the

public upon public request. For an individual, a tick '✓' should be put on the item 3. In item 3, the individual should indicate whether he/she agrees or disagrees that his/her address and/or telephone number and/or other contact be disclosed to the public upon public request. Upon agreement, he/she should indicate his/her address and/or telephone number and/or other contact which can be disclosed to the public upon public request.

1. Listed Model Technical Information Schedule 2A:

Refrigerating Appliance (Applicable to models with tests conducted based on IEC 62552 ed. 1.1 (2020) only)

Section A: Energy Efficiency Grade and Calculation (IEC 62552 ed. 1.1 (2020))

Information provided in this section, including energy efficiency grade, annual energy consumption, fresh food volume and frozen food volume are to be displayed on the energy label of the listed model.

- A tick '✓' should be put on the appropriate box (1 to 5) of the energy efficiency grade in accordance with Code of Practice on Energy Labelling of Products 2024.
- The annual energy consumption, fresh food volume and frozen food volume shall be calculated based on the measured values of the products in accordance with the Code of Practice on Energy Labelling of Products 2024 respectively, and rounded to an integer.
- The rated value and measured value of the storage volume, measured values of the storage temperature of each compartment should be indicated.
- The rated value and measured value of the daily energy consumption at ambient temperature of 16 °C and 32°C (kWh/day), and the calculated annual energy consumption (kWh) of the product should be indicated.
- (For refrigerator-freezers only) The rated value and measured value of the additional daily energy consumption at ambient temperature of 16 °C and 32°C (kWh/day), and the calculated total annual energy consumption (kWh) of the product should be indicated.
- (For food freezers or refrigerator-freezers only) Both the rated value and measured value of the freezing capacity (kg/24 hours) of the product should be indicated.
- The adjusted volume should be calculated in accordance with the Code of Practice on Energy Labelling of Products 2024 and indicated to 1 decimal place.
- The measured energy consumption index and the measured total energy consumption index (if applicable) should be calculated based on the measured values of the products in accordance with the Code of Practice on Energy Labelling of Products 2024 and indicated to 1 decimal place.

2. Listed Model Technical Information Schedule 2B:

Refrigerating Appliance (Applicable to models converted from IEC 62552 (2007) test results)

Section A: Energy Efficiency Grade and Calculation (Conversion from IEC 62552 (2007))

Information provided in this section, including energy efficiency grade and annual energy consumption are to be displayed on the energy label of the listed model.

- A tick '✓' should be put on the appropriate box (1 to 5) of the energy efficiency grade in accordance with Code of Practice on Energy Labelling of Products 2024.
- The annual energy consumption shall be converted or calculated in accordance with the Code of Practice on Energy Labelling of Products 2024, and rounded to an integer.
- The converted values of the daily energy consumption at ambient temperature of 16 °C and 32°C (kWh/day), and the calculated annual energy consumption (kWh) of the product should be indicated.
- (For refrigerator-freezers only) The converted values of the additional daily energy consumption at ambient temperature of 16 °C and 32°C (kWh/day), and the calculated total annual energy consumption (kWh) of the product should be indicated.
- The adjusted volume should be calculated in accordance with the Code of Practice on Energy Labelling of Products 2024 and indicated to 1 decimal place.
- The measured energy consumption index and the measured total energy consumption index (if applicable) should be calculated based on the measured values of the products in accordance with the Code of Practice on Energy Labelling of Products 2024 and indicated to 1 decimal place.

3. Listed Model Technical Information Schedule 4: Washing Machine

Section A: Energy Efficiency Grade and Calculation

- A tick '✓' should be put on the appropriate box (1 to 5) of the energy efficiency grade in accordance with the Code of Practice on Energy Labelling of Products 2024.
- The specific energy consumption in kWh/kg/cycle should be based on the measured test results in the test report should be indicated to 5 decimal places.
- (For vertical axis washing machine (Category 2) submitted with IEC 60456 ed. 5.0 (2010) test report only) The measured energy consumption and water consumption, the calculated ratio of average sum of reflectance values (q), the remaining moisture (RM) and the specific energy consumption should be indicated.

4. Product Technical Information Schedule 7: Storage Type Electric Water Heater

Section A: Energy Efficiency Grade and Calculation

- A tick '✓' should be put on the appropriate box (1 to 5) of the energy efficiency grade in accordance with the Code of Practice on Energy Labelling of Products 2024.
- The energy consumption index should be calculated based on the measured test results in the test report and indicated to 1 decimal place.