

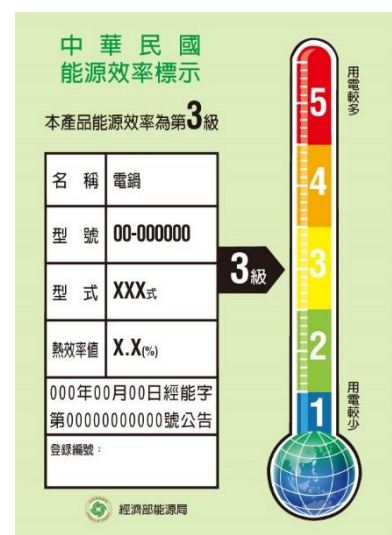
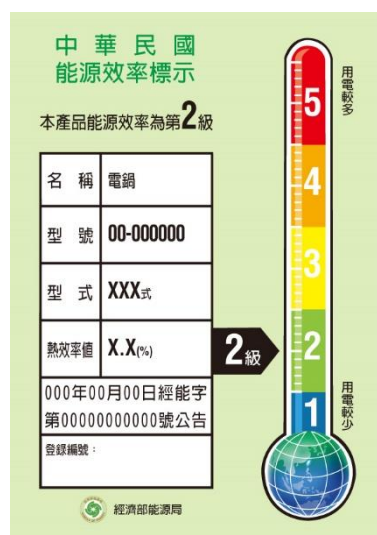
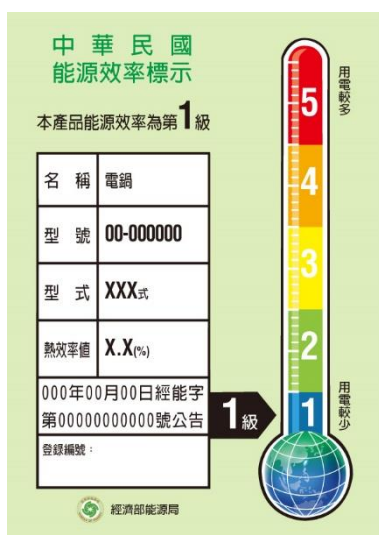
Requirements on Minimum Energy Performance Standard and Energy Efficiency Rating Labelling and Inspection of Electric Rice Cookers

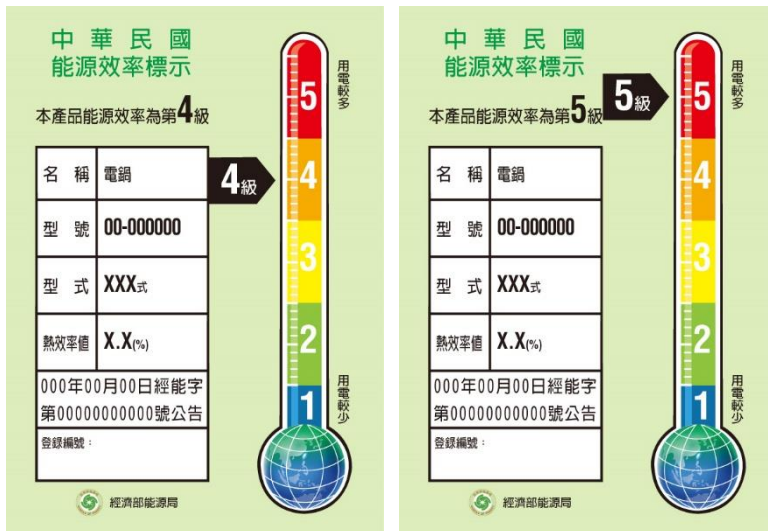
Subject : Announcement for the Requirements on Minimum Energy Performance Standard and Energy Efficiency Rating Labelling and Inspection of Electric Rice Cookers

Basis : Paragraph 4, Article 14 of the Energy Management Act

Announcement :

1. Domain : The Electric Rice Cookers denoted in this announcement are those meeting the definition in CNS 2518, and promulgated by the Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs (MOEA) as products requiring inspection before marketing.
2. Test Method : CNS 2518
3. Minimum Energy Performance Standard (MEPS) : The tested value of thermal efficiency (%) shall not be less than the standard value specified in the Table 1 (minimum energy performance standard requirements for Electric Rice Cookers) and be more than 97% of the declared value on products. Both criteria must be met.
4. Labelling Scheme for Energy Efficiency Rating
 - (1) Minimum size of displayed label : 60mm (long)×40mm(width), its samples and specifications as follow :





(2) Content of energy efficiency rating label

- (i) Product name (Electric Rice Cookers);
- (ii) Product model number;
- (iii) Type(Direct heating/Indirect heating/IH heating);
- (iv) Thermal efficiency value (%)
- (v) Energy efficiency rating;
The products shall be classified for energy efficiency rating based on the **thermal efficiency value** shown in the following Table 2 and shall be marked on the energy efficiency labelling.
- (vi) The year and announcement number of the Announcement containing the criteria for energy efficiency rating of **Electric Rice Cookers** used for this rating determination;
- (vii) Registration number for this rating;
- (viii) Other text as designated by the Central Competent Authority.

(3) **Display or post the label**

While manufacturing or importing the products, the dealer shall display or attach the energy efficiency label in/on the product instruction/manual, or place the label in a prominent area in front of the products. While displaying or marketing the products, the dealer shall display or post the energy efficiency rating label in front of the products, and shall not hide, destroy or adopt other means to the label not recognizable by the consumers.

(4) **Energy efficiency rating**

The products shall be classified for energy efficiency rating based on the **thermal efficiency value** shown in the following Table 2 and shall be marked on the energy efficiency labelling.

After the aforementioned application is approved by the Central Competent Authority, the dealer may download the energy efficiency rating label from the

management system and start using the label.

(5) Market surveillance

In principle, the number of products shall be decided based on the sales volume of the designated model number of the previous year, and one sample shall be tested out of 4,000 units of such product model sold. If less than 4,000 units were sold for that model number in the prior year, one sample shall be tested. Nonetheless, the Central Competent Authority may change the sampling ratio based on actual needs.

Table 1 MEPS for Electric Rice Cookers

MEPS for thermal efficiency value (%)
72.0

Note :

1. The Electric Rice Cookers denoted in this announcement are those meeting the definition in CNS 2518. The calculated thermal efficiency value shall be rounded off to one decimal place. Thermal efficiency(%) equals the cooker heating capacity(Qt)(sensible heat capacity (Q1 · Wh) plus latent heat capacity (Q2 · Wh)) divided by Total energy consumption(E, Wh).

2. sensible heat and latent heat are defined by the following equation:

$$\text{sensible heat capacity } Q_1 = 1.16 \times (W_1 + W_2) \times (T_2 - T_1)$$

$$\text{latent heat capacity } Q_2 = \Delta w \times 0.6269$$

W_1 : mass of distilled water at a rate of 64% of cooker's inner container (kg)

W_2 : mass of distilled water added to the outer container (kg)

T_1 : initial distilled water temperature (°C)

T_2 : highest distilled water temperature (°C)

Δw : water evaporation(g)

3. The tested thermal efficiency value shall not be lower than the standard value shown in the table above. The tested value should be at least 97% or more of the product declared value. Both criteria must be met.

Table 2 Energy efficiency rating standard requirements for Electric Rice Cookers

Energy efficiency rating	Thermal efficiency value (%)
Class 1	90.0
Class 2	85.0
Class 3	80.0
Class 4	76.0
Class 5	72.0