

Requirements on Minimum Energy Performance Standard and Energy Efficiency Rating Labelling and Inspection for Air Cleaners (Draft)

Subject : Announcement for the Requirements on Minimum Energy Performance Standard and Energy Efficiency Rating Labelling and Inspection of Air Cleaners (Draft)

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

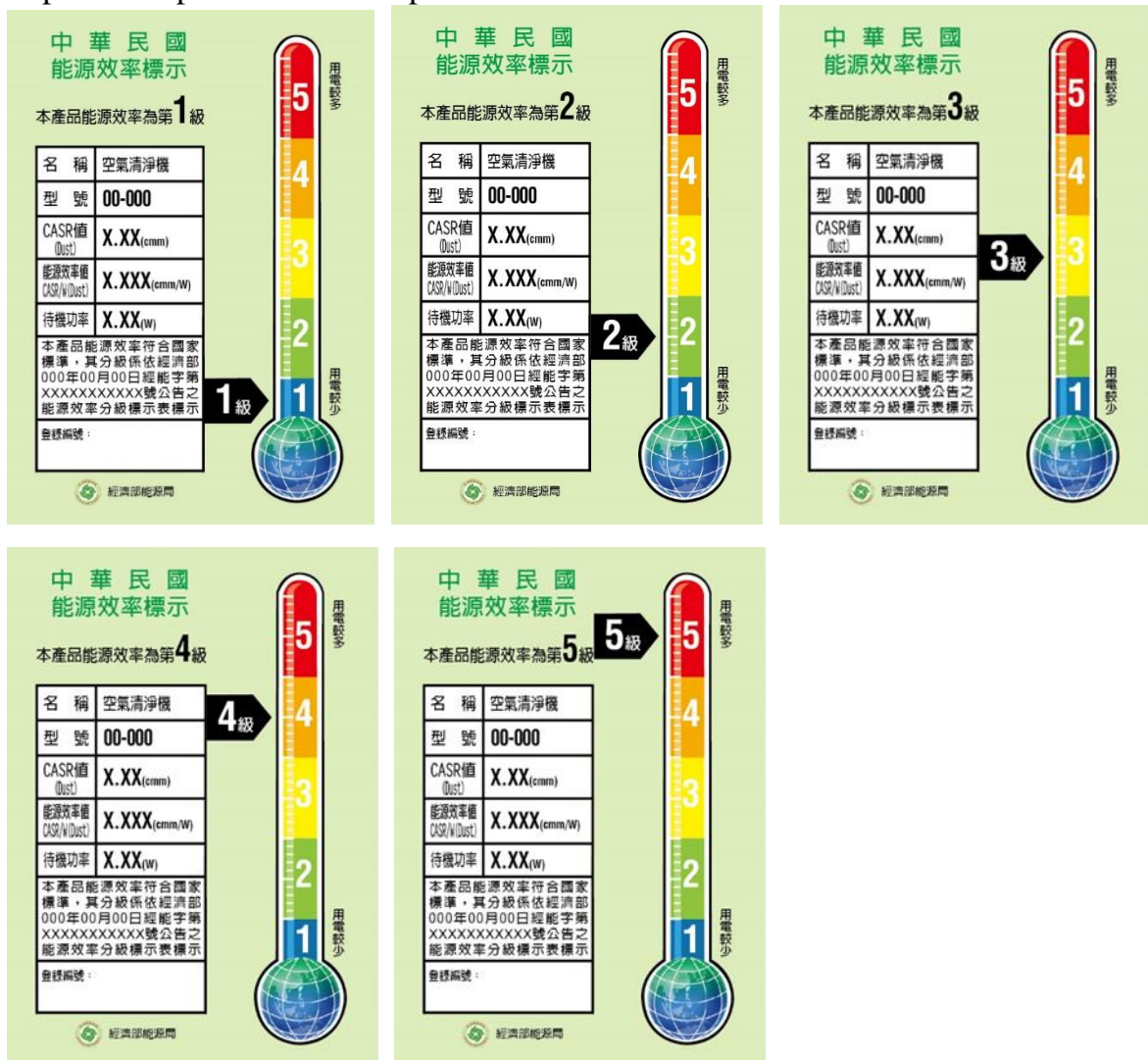
Announcement :

1. Application Scope : The Air Cleaners stated in this Announcement refer to those meeting the definition of air cleaners in CNS 16098, and promulgated by the Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs (MOEA) as the products requiring inspections. However, this Announcement and the Requirements do not apply to air cleaners of the following conditions:
 - (1) Both the rated value and the measured value of cleaning air supply rate (CASR, cmm) are either below 0.26 or above 12.80.
 - (2) The principle of air purification is merely either pure ozone, ultraviolet light or photocatalyst.
 - (3) The product is equipped with USB ports, the input voltage of the main body is DC 5V, and there is no power adapter attached; or the product accepts only car power supply and is equipped with power supply products for automotive cigar lighter; or the product accepts only three-phase voltage or merely dry cell as the power supply.
2. Test Method : In accordance with CNS 16098
3. The testing and calculation of Air Cleaners shall comply with the following requirements:
 - (1) CASR shall be tested in accordance with CNS 16098. The measured value of CASR rounded off to the second decimal place shall be greater than or equal to 95% of the declared value of products.
 - (2) The operating power (W) shall be tested in accordance with CNS 16098. The measured value of operating power shall be rounded off to the first decimal place.
 - (3) The energy efficiency of Air Cleaners shall be tested and calculated in accordance with CNS 16098. The measured value of energy efficiency rounded off to the third decimal place shall not be lower than the Minimal Energy Performance Standard (MEPS) of Air Cleaners (see Table 1), and shall be greater than or equal to 95% of the declared value of products.

(4) The Standby Power of Air Cleaners shall be tested and calculated in accordance with CNS 16098. The measured value of Standby Power rounded off to the second decimal place, and the declared value and the measured value shall not be higher than the MEPS of Air Cleaners (see Table 1), and the measured value shall not be higher than the declared value of products.

4. Labelling Scheme for Energy Performance and Energy Efficiency Rating

(1) The minimum size of displayed label shall be: 140mm (height)×100mm(width).The samples and specifications are provided as follow:



(2) The Energy Efficiency Rating Label shall include the information listed as below:

- Name of the product (Air Cleaner);
- Model number of the product;
- CASR(Dust) (cmm);
- Energy Efficiency CASR/W (Dust) (cmm/W);
- Standby Power (W);

- (vi) Energy Efficiency Rating classified in accordance with the “Energy Efficiency Rating Standards for Air Cleaners ” of Table 2;
- (vii) The year and the number of announcement of the applied Energy Efficiency Rating Standards for Air Cleaners;
- (viii) Registration number of the product; and
- (ix) Other texts designated by the Central Competent Authority.

(3) The display or post of the label

While manufacturing or importing Air Cleaners, the firms shall display or attach the Energy Efficiency Rating Label in/on the product instruction/manual, or place the label in a prominent area on the front of the products. While displaying or marketing the products, the firms shall display, post or disclose the Energy Efficiency Rating Label on the front of the products.

(4) Energy Efficiency Rating

The products shall be classified for Energy Efficiency Rating based on the labeled Energy Efficiency CASR/W (Dust) (cmm/W) and Standby Power, and shall be labeled on the Energy Efficiency Rating Label.

(5) Market Inspection

The Central Competent Authority may have random inspection per annum while applying the inspection of the Energy Efficiency Rating Labeling. The samples for random inspection shall be designated by the Central Competent Authority, and shall be delivered by the firms to the designated inspection laboratories for testing within the required term. The amount of samples for random inspection shall be decided based on the total amount of products marketed by the manufacturers or the importers of the previous year. In principle, one unit shall be sampled for inspection for 3,000 units. If the total amount is less than 3,000 units, one unit shall still be sampled for inspection. Nonetheless, the Central Competent Authority may adjust the sampling ratio for random inspection according to actual needs.

Table 1 MEPS for Air Cleaners

MEPS	
Energy Efficiency CASR/W (Dust) (cmm/W)	Standby Power (W)
0.057	≤1.00W; for products with wireless networking features: ≤ 2.00 W

Note : The test and calculation of the Energy Efficiency CASR/W (Dust) shall be the energy efficiency, the result of the cleaning air supply rate (CASR, cmm) under CNS16098 divided by the operating power (W), rounded off to the third decimal places

Table 2 Energy Efficiency Rating Standards for Air Cleaners

Energy Efficiency Rating	Energy Efficiency CASR/W (Dust) (cmm/W)	Standby Power (W)
Class 1	more than or equal to 0.169	$\leq 1.00 \text{ W}$; If products with wireless networking features: $\leq 2.00 \text{ W}$
Class 2	more than or equal to 0.141 , less than 0.169	
Class 3	more than or equal to 0.113 , less than 0.141	
Class 4	more than or equal to 0.085 , less than 0.113	
Class 5	more than or equal to 0.057 , less than 0.085	