

## **Requirements on Labeling and Inspection of Energy Consumption and Energy Efficiency Rating for Room Air Conditioners**

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

**Announcement:**

1. The window/wall-type and box-type room air conditioners (“products”) denoted in this Announcement are those meeting the definition of air conditioners as defined in CNS 3615 and CNS 14464, 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. While importing or manufacturing the products, the product manufacturer or importer (“dealer”) shall label the product with the energy efficiency rating of the product, determined based on the product’s measured Energy Efficiency Ratio (EEF) as stated in the test report on product safety requirements, issued by a BSMI-accredited goods inspection and testing laboratory, and the rating criteria as defined in the Criteria for Energy Efficiency Rating of Window/Wall-type Air Conditioners (see Table 1) and Criteria for Energy Efficiency Rating of Box-type Air Conditioners (see Table 2).

3. The product dealer shall submit the following documentation to the Central Competent Authority to apply for the registration account and password for the “Energy Efficiency Rating and Labeling Management System (“Management System”):

(1) Application for Management System Registration Account and Password (see Table 3);

(2) A copy of the corporate registration certificate issued by the corporate or commercial entity registration authority, commercial registration certificate or a printout from the relevant competent authority’s website showing the entity’s registration status.

4. After obtaining the Management System registration account and password, the product dealer shall submit the following documentation to the Central Competent Authority in order to apply for the approval of the energy efficiency rating and labeling:

(1) Application for Registration of Room Air Conditioner Energy Efficiency Rating and Labeling (see Table 4, the dealer shall complete this table in the Management System and download the completed table for use); if the registration application is conducted by an agent, the agent shall also submit the original document showing the authorization of agent by the dealer to apply for the energy efficiency rating on dealer’s behalf.

(2) The product's Certificate for Registration of Product Certification or Certificate for Approval of Product Type (electronic version of the original certificate should be scanned to produce an electronic image file which can be uploaded to the Management System);

(3) The Test Report on Product Safety Requirements which was used in applying for Certificate for Registration of Product Certification or Certificate for Approval of Product Type (this should be a copy of the original test report stamped with official corporate seal, or in electronic form stored on an optical disc which is sent to the Central Competent Authority via the Postal Service).

After the aforementioned application has been 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. After July 1, 2010, while displaying or marketing the products, the dealer shall display or post the energy efficiency rating label on the front of the products, and shall not hide, destroy or adopt other means to render the label not recognizable by the consumers. After September 1, 2010, while manufacturing or importing the products, the dealer shall display the energy efficiency label in the product instruction/manual, or place the label in a prominent area on the front of the products. The displayed label shall follow the illustration provided in Figure 1 in the original color, which may be enlarged in proportion. The content of the label shall include:

- (1) Product name (air conditioner);
- (2) Product model number (for split-type model, only label the model number of the exterior unit);
- (3) Rated cooling capacity (kW);
- (4) Energy Efficiency Ratio (W/W);
- (5) Energy efficiency rating (Class) determined based on Criteria for Energy Efficiency Rating of Room Air Conditioners;
- (6) Annual electricity consumption (kWh/year), which is calculated by the rated cooling capacity (kW) / Energy Efficiency Ratio (W/W) X 1200 hours/year. All values shall be rounded to the second decimal place before conducting calculation and annual electricity consumption value shall be rounded to integer;
- (7) The year and Announcement number of the Announcement containing the Criteria for Energy Efficiency Rating of Room Air Conditioners used for this rating determination;
- (8) Registration number for this rating;
- (9) Other text as designated by the Central Competent Authority.

6. After July 1, 2010, the product energy efficiency rating logo (see Figure 2) shall be displayed in a legible manner beside the product picture/illustration on the product

catalog used in the premises where the products are marketed. If the product information displayed in the product catalog is in the form of text or table, product energy efficiency information including annual electricity consumption, energy efficiency ratio and energy efficiency rating shall also be indicated.

7. The dealer shall re-apply for registration of product energy efficiency rating in the following instances:

- (1) The basic design of the product has changed which affects its energy efficiency;
- (2) The basic design of the product has not changed, but the product model number has changed.

8. The dealer shall report the product sales number for the prior year in the Management System before the end of February each year.

9. While monitoring the implementation of the energy efficiency rating scheme, the Central Competent Authority may conduct annual product sampling and testing; the Central Competent Authority may designate the sampled products and the dealer shall send the product samples to designated testing laboratory within the allowed time. The energy efficiency ratio value obtained through such testing shall be greater than 95% of the labeled value; if not, the Central Competent Authority shall inform the dealer to conduct re-testing. The number of re-tested samples of the product with same product number shall double the number of the first-tested samples, and the dealers shall pay for all costs associated with the re-testing. If the product re-testing has not been conducted, or not all tested model comply with the stipulated Energy Efficiency Ratio requirements, the Central Competent Authority shall inform the non-complying dealer to conduct corrective actions based Article 21 of the Energy Management Act within designated period and shall take all relevant follow-up actions against the involved dealer.

10. In principle, the number of products first sampled and tested shall be decided based on the sales number of the designated model number of the previous year, and one sample shall be tested out of 10,000 units of such product model sold. If less than 10,000 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 Criteria for Energy Efficiency Rating of Window/Wall-type Air Conditioners**

Type	Cooling Capacity (kW)	Energy Efficiency Ratio (W/W)				
		Class 5	Class 4	Class 3	Class 2	Class 1
Integrated	$\leq 2.2$	< 2.95	$\geq 2.95,$ < 3.10	$\geq 3.10,$ < 3.25	$\geq 3.25,$ < 3.40	$\geq 3.40$
	$> 2.2, \leq 4.0$					
	$> 4.0, \leq 7.1$					
	$> 7.1, \leq 10.0$					
Split-type	$\leq 4.0$	< 3.45	$\geq 3.45,$ < 3.69	$\geq 3.69,$ < 3.93	$\geq 3.93,$ < 4.17	$\geq 4.17$
	$> 4.0, \leq 7.1$	< 3.20	$\geq 3.20,$ < 3.42	$\geq 3.42,$ < 3.65	$\geq 3.65,$ < 3.87	$\geq 3.87$
	$> 7.1$	< 3.15	$\geq 3.15,$ < 3.37	$\geq 3.37,$ < 3.59	$\geq 3.59,$ < 3.81	$\geq 3.81$

Note:

The above criteria are applicable to integrated or split-type window/wall-type air conditioners with a power rating of less than 3 kW.

**Table 2 Criteria for Energy Efficiency Rating of Box-type Air Conditioners**

Energy Efficiency Ratio (W/W) Type	Energy Efficiency Class				
	Class 5	Class 4	Class 3	Class 2	Class 1
<b>Air-cooled</b>	< 3.15	≥ 3.15, < 3.37	≥ 3.37, < 3.59	≥ 3.59, < 3.81	≥ 3.81
<b>Water-cooled</b>	< 4.25	≥ 4.25, < 4.55	≥ 4.55, < 4.85	≥ 4.85, < 5.14	≥ 5.14

Note:

The above criteria are applicable to air-cooled or water-cooled box-type air conditioners with a power rating of less than 26 kW.

**Table 3 Application for Energy Efficiency Management System Registration**

**Account and Password**

Date: \_\_\_\_\_

Applicant (Company): \_\_\_\_\_

Applicant Representative: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Applicable Product Category: \_\_\_\_\_

User Account: \_\_\_\_\_

Password: \_\_\_\_\_

I hereby apply for the rights to use the Energy Efficiency Rating Management System, and will be solely responsible for all the data and contents entered into the system.

Seals (corporate seal and representative seal)

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**Table 4 Application for Registration of Room Air Conditioners Energy Efficiency Rating**

Application Case No. \_\_\_\_\_

Date: \_\_\_\_\_

**1. Basic information of the applicant**

Company name: \_\_\_\_\_  
 Company address: \_\_\_\_\_  
 Company representative: \_\_\_\_\_  
 Unified Business No. \_\_\_\_\_  
 Contact: \_\_\_\_\_ Department: \_\_\_\_\_ Title: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_ Fax: \_\_\_\_\_  
 e-mail: \_\_\_\_\_

**2. Manufacture name and address**

Same as applicant

Manufacturer name: : \_\_\_\_\_  
 Manufacturer address: \_\_\_\_\_

**3. Content of Energy Efficiency Rating Label**

Product number	
Rated cooling capacity (kW)	
Labeled cooling capacity for exterior unit (W)	
Energy Efficiency Ratio (W/W)	
Energy efficiency rating (Class) (Please fill-in based on instruction in Tables 1 & 2: Criteria for Energy Efficiency Rating of Room Air Conditioners)	
Annual electricity consumption (kWh/year)	
Announcement Year and No. of Criteria for Energy Efficiency Rating of Room Air Conditioners used as	

basis for this classification	
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Note: This form may be reproduced if more space is needed.

**4. Product Key Components**

Product Model	Compressor Model	Compressor Manufacturer

Note: This table may be reproduced if more space is needed.

**5. Affidavit**

I hereby declare to the Central Competent Authority that all the information provided in this application is correct, and that I will accept all legal consequences for any information found to be incorrect. In addition, the content of energy efficiency rating labeled on the marketed products is the same as the information listed in this application. If there are any inconsistencies or inaccuracy to such information stated in this application, I will be willing to withdraw relevant product registration and subject to the penalties as stipulated in the Energy Management Act without protest.

Seals (both corporate seal and representative seal)



### Figure 1

The Energy Efficiency Rating Label as displayed in product manual or prominent area on the front of product:

Republic of China  
Energy Efficiency Label  
Annual electricity consumption

Approximately XXX kWh

The energy efficiency of this product is rated as **Class 1**

Name: Air Conditioner

Model number:

Rated cooling capacity: (kW)

Energy Efficiency Ratio: (W/W)

(Total cooling capacity (W) divided by effective input power (W))

The energy efficiency of this product meets the CNS standard. This energy efficiency rating is determined based on the Criteria for Energy Efficiency Rating (Announcement Number: 09904601490, March 22, 2010).

Registration number:

Use more electricity

Use less electricity

Bureau of Energy, MOEA

**Figure 2**

**Energy Efficiency Rating Logo as displayed in the product catalog**



**Energy Efficiency**

**Class 1**

Note: The color and font of the above logo may be adjusted according to needs, and enlarged in proportion. Nonetheless, the size of the logo shall not be small than 7 mm X 10 mm.