

---

First published in the *Government Gazette*, Electronic Edition, on 8 November 2017 at 5 pm.

**No. S 646**

ENERGY CONSERVATION ACT  
(CHAPTER 92C)

ENERGY CONSERVATION  
(ENERGY LABELLING AND MINIMUM PERFORMANCE  
STANDARDS FOR REGISTRABLE GOODS)  
(AMENDMENT) REGULATIONS 2017

In exercise of the powers conferred by section 78 of the Energy Conservation Act, the Minister for the Environment and Water Resources makes the following Regulations:

**Citation and commencement**

1. These Regulations are the Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) (Amendment) Regulations 2017 and come into operation on 1 December 2017.

**Amendment of First Schedule**

2. The First Schedule to the Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulations 2013 (G.N. No. S 557/2013) is amended —

- (a) by deleting sub-paragraph (f) of paragraph 3 and substituting the following sub-paragraph:

“(f) for refrigerators —

(i) without freezer:

| <i>Ticks</i> | <i>Energy efficiency rating</i> | <i>Annual Energy Consumption (AEC) in kWh</i>   |
|--------------|---------------------------------|---|
| 1            | Low                             | $(368 + 0.892 \times V_{\text{adj}}) \times 0.551 \geq \text{AEC} > (368 + 0.892 \times V_{\text{adj}}) \times 0.461$ |
| 2            | Fair                            | $(368 + 0.892 \times V_{\text{adj}}) \times 0.461 \geq \text{AEC} > (368 + 0.892 \times V_{\text{adj}}) \times 0.332$ |
| 3            | Good                            | $(368 + 0.892 \times V_{\text{adj}}) \times 0.332 \geq \text{AEC} > (368 + 0.892 \times V_{\text{adj}}) \times 0.239$ |
| 4            | Very Good                       | $(368 + 0.892 \times V_{\text{adj}}) \times 0.239 \geq \text{AEC}$  |

(ii) with freezer and an adjusted volume ( $V_{\text{adj}}$ ) of up to 300 litres:

| <i>Ticks</i> | <i>Energy efficiency rating</i> | <i>Annual Energy Consumption (AEC) in kWh</i>   |
|--------------|---------------------------------|---|
| 1            | Low                             | $(465 + 1.378 \times V_{\text{adj}}) \times 0.553 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.427$ |
| 2            | Fair                            | $(465 + 1.378 \times V_{\text{adj}}) \times 0.427 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.312$ |
| 3            | Good                            | $(465 + 1.378 \times V_{\text{adj}}) \times 0.312 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.228$ |
| 4            | Very Good                       | $(465 + 1.378 \times V_{\text{adj}}) \times 0.228 \geq \text{AEC}$  |

- (iii) with freezer and an adjusted volume ( $V_{\text{adj}}$ ) of more than 300 litres:

| <i>Ticks</i> | <i>Energy efficiency rating</i> | <i>Annual Energy Consumption (AEC) in kWh</i>   |
|--------------|---------------------------------|---|
| 1            | Low                             | $(465 + 1.378 \times V_{\text{adj}}) \times 0.506 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.427$ |
| 2            | Fair                            | $(465 + 1.378 \times V_{\text{adj}}) \times 0.427 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.312$ |
| 3            | Good                            | $(465 + 1.378 \times V_{\text{adj}}) \times 0.312 \geq \text{AEC} > (465 + 1.378 \times V_{\text{adj}}) \times 0.228$ |
| 4            | Very Good                       | $(465 + 1.378 \times V_{\text{adj}}) \times 0.228 \geq \text{AEC}$  |

- (iv) with freezer and through-the-door ice dispenser:

| <i>Ticks</i> | <i>Energy efficiency rating</i> | <i>Annual Energy Consumption (AEC) in kWh</i>   |
|--------------|---------------------------------|---|
| 1            | Low                             | $(585 + 1.378 \times V_{\text{adj}}) \times 0.485 \geq \text{AEC} > (585 + 1.378 \times V_{\text{adj}}) \times 0.409$ |
| 2            | Fair                            | $(585 + 1.378 \times V_{\text{adj}}) \times 0.409 \geq \text{AEC} > (585 + 1.378 \times V_{\text{adj}}) \times 0.298$ |
| 3            | Good                            | $(585 + 1.378 \times V_{\text{adj}}) \times 0.298 \geq \text{AEC} > (585 + 1.378 \times V_{\text{adj}}) \times 0.218$ |
| 4            | Very Good                       | $(585 + 1.378 \times V_{\text{adj}}) \times 0.218 \geq \text{AEC}$  |

”; and

(b) by inserting, immediately before the definition of “Annual Energy Consumption” or “AEC” in paragraph 4, the following definition:

“ “adjusted volume” or “ $V_{adj}$ ”, in relation to a single-phase refrigerator, means the sum of the adjusted volumes of the compartments or sections of the refrigerator, where the adjusted volume of a compartment or section is the product of the rated volume of that compartment or section and the corresponding volume correction factor (K) as specified in paragraph 4 of Part I of the Schedule to the Energy Conservation (Registrable Goods) Order 2013 (G.N. No. S 556/2013);”.

### Amendment of Fourth Schedule

3. The Fourth Schedule to the Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulations 2013 is amended by deleting items 10, 11 and 12 and substituting the following items:

|  |   |
|--|---|
| “10. Refrigerator without freezer                                | $AEC \leq (368 + 0.892 \times V_{adj}) \times 0.551$    |
| 11. Refrigerator with freezer —                                  |   |
| (a) with adjusted volume of up to 300 litres                     | $AEC \leq (465 + 1.378 \times V_{adj}) \times 0.553$    |
| (b) with adjusted volume of more than 300 litres                 | $AEC \leq (465 + 1.378 \times V_{adj}) \times 0.506$    |
| 12. Refrigerator with freezer and through-the-door ice dispenser | $AEC \leq (585 + 1.378 \times V_{adj}) \times 0.485$ ”. |

### Saving provisions

4.—(1) Despite regulations 2 and 3, the Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulations 2013 as in force immediately before 1 December 2017 continue to apply in relation to any supply of a refrigerator, on and after 1 December 2017, in any of the following circumstances:

- (a) the refrigerator is supplied as part of any premises by the developer of the premises, if —
  - (i) the developer did not manufacture or import the refrigerator; and
  - (ii) the agreement for the supply of the refrigerator to the developer was entered into before 1 December 2017;

(b) the refrigerator is supplied by a participant in the supply chain for the supply of the refrigerator by the developer mentioned in paragraph (a) under an agreement entered into before 1 December 2017.

(2) In this regulation, “developer” means a person who carries on the business of constructing or causing to be constructed any premises for sale or lease.

*[G.N. Nos. S 234/2014; S 559/2014; S 398/2015; S 406/2016]*

Made on 2 November 2017.

ALBERT CHUA  
*Permanent Secretary,  
Ministry of the Environment and  
Water Resources,  
Singapore.*

[MEWR C030/01/129; NEA/LD/167/Vol. 1;  
AG/LEGIS/SL/92C/2015/2 Vol. 2]