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ENERGY CONSERVATION ACT (CHAPTER 92C)

ENERGY CONSERVATION (REGULATED GOODS AND REGISTERED SUPPLIERS) (AMENDMENT NO. 2) REGULATIONS 2021

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

Citation and commencement

1. These Regulations are the Energy Conservation (Regulated Goods and Registered Suppliers) (Amendment No. 2) Regulations 2021 and come into operation on 1 January 2022.

Amendment of First Schedule

2. The First Schedule to the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017 (G.N. No. S 748/2017) is amended —

- (a) by deleting “2.90” in the second column of item 1 of paragraph 2 and substituting “3.78”;
- (b) by deleting “3.78” in the second column of items 2 to 5 of paragraph 2 and substituting in each case “4.04”;
- (c) by deleting “0.551” in the second column of item 6 of paragraph 2 and substituting “0.461”;
- (d) by deleting items 7 and 8 of paragraph 2 and substituting the following item:

“7. Refrigerator with freezer $AEC \leq (465 + 1.378 \times V_{adj}) \times 0.427$ ”;

- (e) by deleting “0.485” in the second column of item 9 of paragraph 2 and substituting “0.409”;
- (f) by deleting “0.67” in the second column of item 10 of paragraph 2 and substituting “0.55”;
- (g) by deleting sub-paragraphs (a) to (e) of paragraph 3 and substituting the following sub-paragraphs:

“(a) for casement and window type air-conditioners —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Coefficient of Performance (COP) and standby power range</i>
2	Fair	$3.78 \leq \text{COP} < 4.29$
3	Good	$4.29 \leq \text{COP} < 4.86$
4	Very Good	$\text{COP} \geq 4.86$
5	Excellent	$\text{COP} \geq 5.50$ and standby power ≤ 4

(b) for split type (non-inverter) air-conditioners with one indoor unit —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Coefficient of Performance (COP) and standby power range</i>
2	Fair	$\text{COP} \geq 4.04$
3	Good	$4.29 \leq \text{COP} < 4.86$ and standby power ≤ 18
4	Very Good	$\text{COP} \geq 4.86$ and standby power ≤ 18
5	Excellent	$\text{COP} \geq 5.50$ and standby power ≤ 4

(c) for split type (non-inverter) air-conditioners with more than one indoor unit —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Coefficient of Performance (COP) and standby power range</i>
2	Fair	$\text{COP} \geq 4.04$
3	Good	$4.29 \leq \text{COP} < 4.86$ and standby power $\leq 9 \times \text{N}$
4	Very Good	$\text{COP} \geq 4.86$ and standby power $\leq 9 \times \text{N}$
5	Excellent	$\text{COP} \geq 5.50$ and standby power $\leq 7 \times \text{N}$

(d) for split type (inverter) air-conditioners with one indoor unit —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Coefficient of Performance (COP) and standby power range</i>
2	Fair	Weighted COP ≥ 4.04 and COP ≥ 3.34
3	Good	Weighted COP ≥ 4.29 , COP ≥ 3.78 and standby power ≤ 18
4	Very Good	Weighted COP ≥ 4.86 , COP ≥ 4.29 and standby power ≤ 18
5	Excellent	Weighted COP ≥ 5.50 , COP ≥ 4.86 and standby power ≤ 4

(e) for split type (inverter) air-conditioners with more than one indoor unit —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Coefficient of Performance (COP) and standby power range</i>
2	Fair	Weighted COP ≥ 4.04 and COP ≥ 3.34
3	Good	Weighted COP ≥ 4.29 , COP ≥ 3.78 and standby power $\leq 9 \times N$
4	Very Good	Weighted COP ≥ 4.86 , COP ≥ 4.29 and standby power $\leq 9 \times N$
5	Excellent	Weighted COP ≥ 5.50 , COP ≥ 4.86 and standby power $\leq 7 \times N$

”; and

(h) by deleting sub-paragraphs (f) and (g) of paragraph 3 and substituting the following sub-paragraphs:

“(f) for refrigerators —

(i) without freezer —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Annual Energy Consumption (AEC) in kWh</i>
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 —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Annual Energy Consumption (AEC) in kWh</i>
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 through-the-door ice-dispenser:

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Annual Energy Consumption (AEC) in kWh</i>
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	$(585 + 1.378 \times V_{\text{adj}}) \times 0.218$ $\geq \text{AEC}$

(g) for clothes dryers —

<i>Ticks</i>	<i>Energy efficiency rating</i>	<i>Energy Consumption (EC) per Wash in kWh</i>
2	Fair	Rated Capacity \times 0.55 \geq EC $>$ Rated Capacity \times 0.45
3	Good	Rated Capacity \times 0.45 \geq EC $>$ Rated Capacity \times 0.37
4	Very Good	Rated Capacity \times 0.37 \geq EC $>$ Rated Capacity \times 0.30
5	Excellent	Rated Capacity \times 0.30 \geq EC „

Transitional provision

3. Despite regulation 2(a) to (f), items 1 to 5 and 6 to 10 of paragraph 2 of the First Schedule to the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017 as in force immediately before 1 January 2022 continue to apply in relation to any supply, between 1 January 2022 and 31 December 2022 (both dates inclusive), of any regulated goods mentioned in those items that are —

- (a) imported into or manufactured in Singapore before 1 January 2022; or
- (b) imported into or manufactured in Singapore on or after 1 January 2022 and supplied under an agreement entered into before that date.

[G.N. Nos. S 603/2018; S 730/2019; S 199/2021]

Made on 16 December 2021.

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the Environment,
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