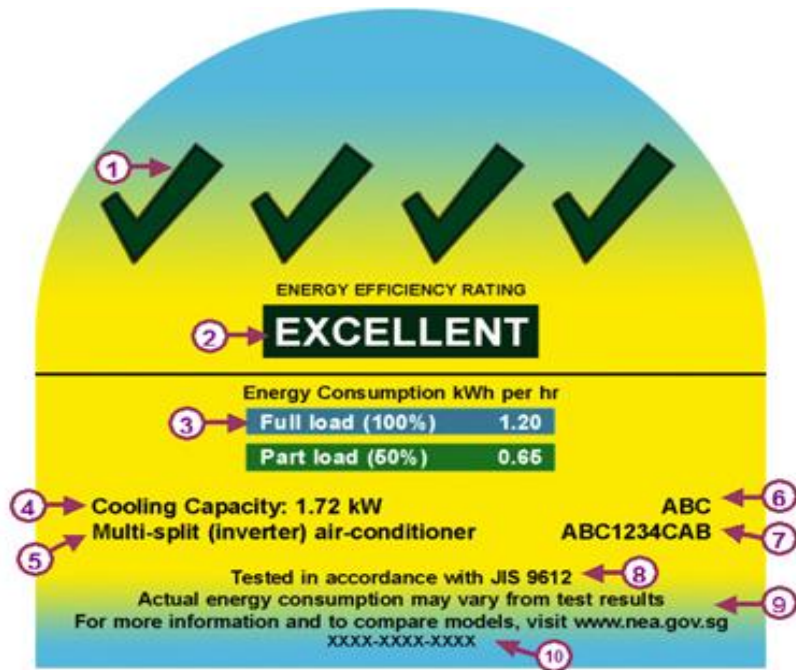


Energy Label and Tick Rating prior to 1 September 2014



Specifications

Dimension: 9cm (width) x 9cm (height)
Arc: 9cm (diameter)
Font: Arial, bold, black

Feature	Air-conditioner	Refrigerator	Clothes Dryer												
(1) Ticks	The number of ticks shall conform to the Tick Rating System stated below.														
(2) Energy Efficiency Rating	The model's relative energy efficiency rating is also expressed in words:														
	<table border="1"> <thead> <tr> <th>Ticks</th> <th>Energy Efficiency Rating</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Low</td> </tr> <tr> <td>1</td> <td>Fair</td> </tr> <tr> <td>2</td> <td>Good</td> </tr> <tr> <td>3</td> <td>Very Good</td> </tr> <tr> <td>4</td> <td>Excellent</td> </tr> </tbody> </table>			Ticks	Energy Efficiency Rating	0	Low	1	Fair	2	Good	3	Very Good	4	Excellent
Ticks	Energy Efficiency Rating														
0	Low														
1	Fair														
2	Good														
3	Very Good														
4	Excellent														
(3) Energy Consumption	Effective power input expressed in kWh per hour and rounded to two decimal places. For inverter type air-conditioners, the energy consumed at part-load cooling capacity shall also be displayed on the label.	Energy consumption over 24 hours x 365 days expressed in kWh.	Energy consumption per wash expressed in kWh and rounded to two decimal places.												
(4) Capacity	Full load cooling capacity expressed in kW and rounded to two decimal places.	Measured total storage volume expressed in litres (L) in whole digits.	Rated capacity expressed in kilograms (kg) and rounded to one decimal places.												
(5) Type	Type of air-conditioners: <ul style="list-style-type: none"> ▪ Casement ▪ Window ▪ Single Split (non-inverter / inverter) ▪ Multi-split Sys (non-inverter / inverter) 	Type of refrigerators: <ul style="list-style-type: none"> ▪ Refrigerator ▪ Refrigerator - freezer 	Type of clothes dryer: <ul style="list-style-type: none"> ▪ Air-vented ▪ Condenser 												
(6) Brand Name	Brand of air-conditioner	Brand of refrigerator	Brand of clothes dryer												

(7) Model Number	<p>The model number found on the air-conditioner's nameplate.</p> <p>For single-split and multi-split type air-conditioners, only the model number of the outdoor unit shall be displayed.</p>	<p>The model number found on the refrigerator's nameplate.</p>	<p>The model number found on the clothes dryer's nameplate.</p>
(8) Test Standards	<p>The test standard used as specified.</p>		
(9) Disclaimer	<p>The following disclaimer applies to all appliances: 'Actual energy consumption may vary from test results'</p>		
(10) Registration Number	<p>A unique number found on the registered model's COR, which is issued by NEA upon successful registration of the model.</p>		

The tick rating of air-conditioners, refrigerators and clothes dryers prior to 1 September 2014 is defined as follows:

Air-conditioners

Type	Capacity (kW)	COP _{100%} ¹ (W/W)			
		1 tick	2 ticks	3 ticks	4 ticks
Casement and window	8.8 or lower	N/A	3.20 > COP _{100%} ≥ 2.90	COP _{100%} ≥ 3.20	N/A
Single-split (non-inverter)	Less than 10	N/A	N/A	COP _{100%} ≥ 3.34	
	10 or more	N/A	3.20 > COP _{100%} ≥ 2.78	COP _{100%} ≥ 3.20	
Multi-split (non-inverter)	Less than 10	N/A	N/A	COP _{100%} ≥ 3.34	
	10 or more	2.92 > COP _{100%} ≥ 2.64	3.34 > COP _{100%} ≥ 2.92		
Single-split (inverter) ² ▪ COP _{100%} ▪ Weighted COP ³	Less than 10	N/A	N/A	COP _{100%} ≥ 3.06 Weighted COP ≥ 3.34	COP _{100%} ≥ 3.34 Weighted COP ≥ 3.76
	10 or more	2.92 > Weighted COP ≥ 2.78	3.34 > Weighted COP ≥ 2.92		
Multi-split (inverter) ² ▪ COP _{100%} ▪ Weighted COP ³	Less than 10	N/A	N/A		
	10 or more	2.92 > Weighted COP ≥ 2.64	3.34 > Weighted COP ≥ 2.92		

¹COP_{100%} is defined as the ratio of total cooling capacity to effective power input at full load cooling capacity

²For split (inverter) type air-conditioners, the model shall meet both the minimum COP_{100%} and weighted COP

³Weighted COP = 0.4 × COP_{100%} + 0.6 × COP_{50%}

Refrigerators

Type	Annual Energy Consumption (AEC) in kWh	
	3 ticks	4 ticks
Without freezer	N/A	$AEC \leq [(368 + 0.892 \times V_{adj\ tot}^4) \times 0.64]$
With freezer	$[(465 + 1.378 \times V_{adj\ tot}) \times 0.457] < AEC \leq [(465 + 1.378 \times V_{adj\ tot}) \times 0.585]$	$AEC \leq [(465 + 1.378 \times V_{adj\ tot}) \times 0.457]$
With freezer, through-the-door ice dispenser ⁵	$[(585 + 1.378 \times V_{adj\ tot}) \times 0.457] < AEC \leq [(585 + 1.378 \times V_{adj\ tot}) \times 0.560]$	$AEC \leq [(585 + 1.378 \times V_{adj\ tot}) \times 0.457]$

⁴ $V_{adj\ tot}$ is defined [here](#)

⁵'Through-the-door ice dispenser' means an automatic ice maker coupled with a device that delivers ice on demand externally through a door

Clothes Dryers

Type	Energy Consumption (EC) per wash in kWh	
	3 ticks	4 ticks
All clothes dryers	$[\text{Rated Capacity} \times 0.50] < EC \leq [\text{Rated Capacity}^6 \times 0.67]$	$EC \leq [\text{Rated Capacity} \times 0.50]$

⁶Rated Capacity means the mass in kilograms of a particular type of dry textiles which, according to the instructions of the manufacturer of the clothes dryer, can be treated in a particular drying programme suitable for drying the particular type of dry textile.