

Residential Building & Landed Home Version 3.0

To achieve compliance for **Pre- requisite No. 3** (Air Conditioning System Efficiency for Gold and Platinum Rating) and **RES 1-2 Option 2(ii)**, unitary air-conditioner requirements should be based on the following;

“Only INVERTER type air-conditioners achieving minimum COP as specified in Table 1-2.1 (page 27) to be considered as ‘Excellent’”

Table 1-2.1: Unitary air-conditioners, electrically driven: Minimum COP-cooling

Equipment		Size	Sub-category	Minimum COP
			Non-Inverter type	Inverter type ¹
			Very Good	Excellent
Air conditioners: Air cooled with condenser	<19 kW _r	Single Split/Package	2.8	3.0
		Multi-split	2.8	3.2
	≥ 19 kW _r and < 35 kW _r	Split or Package	2.8	3.5
	≥ 35 kW _r	Split or package	2.7	2.9
Air conditioners: Water and evaporative cooled	<19 kW _r	Split or package	3.6	4.0
	≥ 19 kW _r and < 35 kW _r	Split or package	3.7	4.4
	≥ 35 kW _r	Split or package	3.8	4.4

Note:

1. The COP for the inverter unit is the weighted value, which is calculated based on the following equation:

$$COP_{\text{weighted}} = [COP_{100\%} \times 0.40] + [COP_{50\%} \times 0.60]$$