

Calculation Guideline

Domestic fan

A = Annual Energy Consumption (kWh) =
 $365 \times 8 \times \text{Power input measured from the test report (kW)}$

B = Energy consumption per year for the lowest 2-Stars rating model (kWh) =

$$\frac{365 \times 8 \times (\text{Tested air delivery capacity (m}^3\text{/min)} / \text{COP}_{\text{Lowest 2-Stars model}})}{1000}$$
 Tested air delivery capacity (m³/min) = From test report

$$\text{COP}_{\text{Lowest 2-Stars model}} =$$
 2.58 m³/minW (Ceiling fan)
 1.01 m³/minW (Pedestal, Wall and Desk fan)

Thus,

$$B \text{ (kWh)} = \frac{365 \times 8 \times (\text{Tested air delivery capacity (m}^3\text{/min)} / \mathbf{2.58})}{1000}$$
 for Ceiling fan
 or

$$B \text{ (kWh)} = \frac{365 \times 8 \times (\text{Tested air delivery capacity (m}^3\text{/min)} / \mathbf{1.01})}{1000}$$
 for Pedestal, Wall and Desk fan

Percentage energy saving compared to the lowest 2-Stars rating model =

$$100\% - ((100 \times (A / B)))$$