

## INVERTER VERSES REGULAR AC UNITS

To put it simply - Inverters cost more money to buy, but are more efficient to run, which saves you money on your energy costs, which makes them better "value for money" over all.

Another advantage to Inverters is they are quieter than conventional "Fixed Speed" aircon units due to the way they achieve their efficiency.

### **So whats the Difference?**

#### What is a Fixed Speed Unit?

This unit only has a single speed compressor motor that is either on or off.

It works similar to a fan heater that switches off when the desired temperature is reached and on again when the temperature drops to a set level.

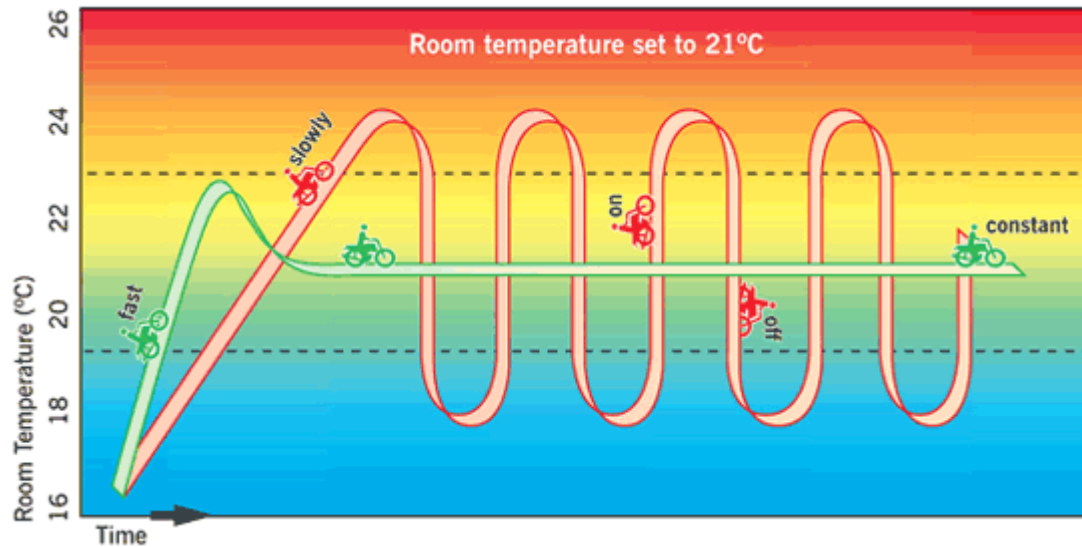
#### What does Inverter Mean?

Inverter technology uses a variable speed compressor motor similar to a car. It simply slows down and speeds up as needed to hold a selected comfort setting.

Inverter technology provides a more precise room temperature without the temperature fluctuations of fixed speed systems.

#### Inverter vs Standard:

- Inverter units are Approximately 30% more efficient than fixed speed units.
- Inverter units reach the set room temperature quicker.
- The speed control of the outdoor unit also means quieter operation, this is important especially at night in residential areas.



### Inverter Systems

- Increased output to achieve set temperature faster.
- Then varies the output to maintain a constant room temperature.



### Fixed Speed Type

- Slowly gets to temperature as output rating is fixed.
- Then turns on and off to maintain room temperature.

To get these efficiency gains it is important to use the air conditioner as it is intended:

- the unit has to be sized right for the room you are heating/cooling
- it is best to run the unit continuously and set for the desired room temperature (i.e. such as 21 Celcius) and not at a full setting for heating or cooling (as most people do)
- and of course - a well insulated, low-thermal mass villa helps too...