

# Air-con Saver

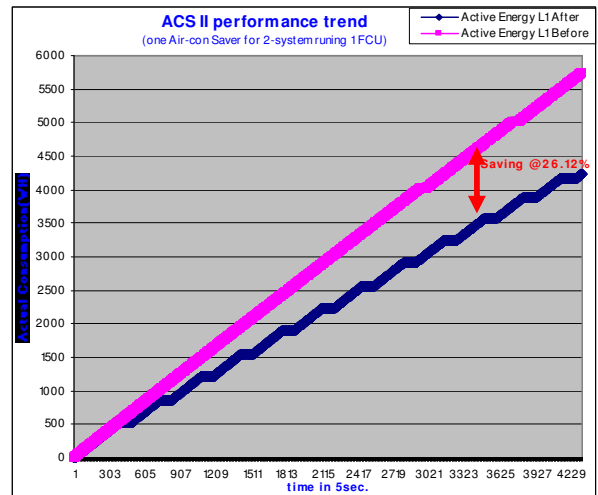
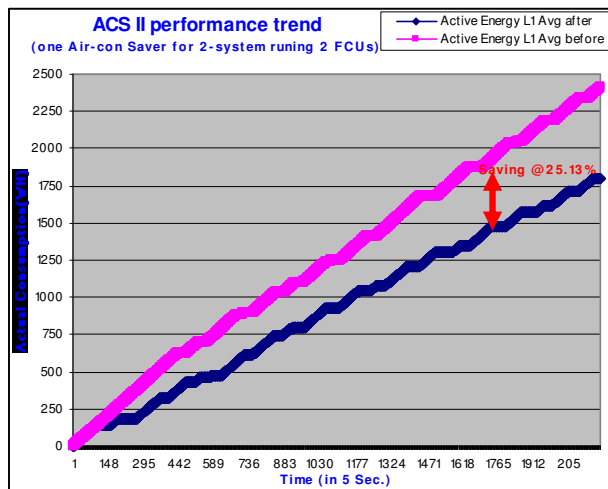


## Application:

- 1 Air-con used in house, commercial building, office, hotel and hospital, etc.
- 2 FCU (Fan Coil Unit is hooked up thermal sensor) used in buildings and factories.
- 3 Fridge used in house, office, hotel, restaurant and hospital, etc.
- 4 Ice maker used in house, hotel, restaurant and hospital, etc.

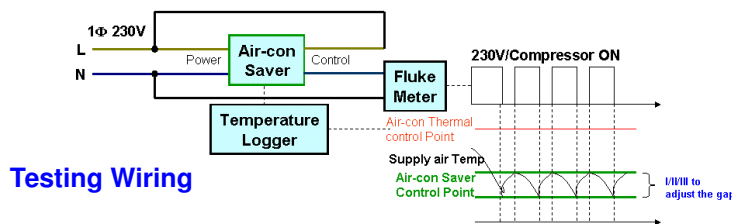
## Efficiency:

Save electricity up to 30% and vary with equipment condition. See below test trend for Nation two-system Air-con (got 25% saving while applied one Air-con Saver to one fan coil unit, another fan coil unit is running as normal). **We guarantee 10% saving for non-inverter air-con.**



## Principle:

Air-con Saver is a patented product (patent No.: 200710093256.1). It applies fuzzy-logical technology to simulate human being's sense of temperature and enhance the refrigeration efficiency by optimizing the operation curve of compressor, as well as to control compressor to adjust cool air output and prevent the air over-cooled to waste energy, and further to save energy.



It's carried out as follows:-

**1. Save electricity** thru controlling low limited temperature. According to the operation curve of air-con compressor, when compressor runs to the low limited temperature, the whole temperature will rise, the current and the energy expenditure will also increase. However, the cooling temperature will never go down any more or very less. In this situation, the Air-con Saver will control the compressor to stop, and to save the energy that will be wasted on. In the meanwhile, the compressor is completely cooled down, and its reliability will be increased.

**2. The cooled refrigerant** still maintains in the compressor system after compressor stopped. As the cooling fan continues to run while compressor stopped, the air from cooling fan still keeps cool and maintain the room temperature. When the air temperature rises to certain level, the simulator of energy saver will control compressor to start up for next cycle, and so on. This does avoid compressor frequently starting up, and the energy is saved successfully.

**3. Avoid frequently starting up** the compressor. The compressor's start and stop are controlled by protractor. In the state of heating, it stops when the temperature is higher than the targeted setting, and starts while lower. In the state of cooling, it starts when the temperature is higher than the targeted setting, and stops while lower. Actually, the work cycle is a few minutes. So frequent to start and stop compressor, it will bring in rush current impact and huge energy expenditure. Whereas the working cycle of energy saver is scores of minutes, it avoids frequent rush current impact to compressor and extends compressor's lifespan.

**Note:** This saving efficiency is adjustable through a "saving selection" switch which is classified in 3 grades. When the switch is selected in different grade, the saving efficiency will be different as 20%, 25% or 30% for the air-con with middle grade of efficiency. Air-con Saver also equips a bypass switch to switch saving mode to normal operation mode.

### Specification:-

Voltage: 1Φ/230Vac;

Consumption: <4W;

Dimensions: 280 X 85 X 50 (LXWXH) mm<sup>3</sup>

Weight: 1,5Kg (for two-unit package)

### Ease of Installation as below instruction:-

