



# How a SolAir World Solar Thermal Hybrid Air Conditioner Works

Many people when looking at purchasing an air conditioner traditionally come across two different types of technology – Conventional and Inverter. But now there is a third player in the market, Solar Thermal Hybrid. And why is Solar Thermal Hybrid Air Conditioning even better?

The Next Generation Solar Thermal Hybrid Air Conditioners take the improvements made by inverter technology to the next level. By capturing thermal (ambient) energy, the amount of work the condenser does is reduced under full load and significantly extends the time the compressor is cycled off.

## But how do Solar Thermal Hybrid Air Conditioners do this?

They absorb thermal solar energy by using a thermal collector with copper heat conducting inner coils. This then uses the stored energy in the solar collector to continue the refrigeration cycle while the compressor is off utilising a larger stored amount of refrigerant liquid in the condenser.

The collector, compressor and the condenser have been designed to work in tandem to allow a smaller compressor to be used. The smaller compressor consumes less electricity and combined with the solar collector, SolAir World's air conditioners optimise energy savings and reduce running costs.

Simply put, the hotter it gets, the more energy is collected in the thermal hybrid collector, the more efficient the system becomes.

## The Original Thermal Boosted Air Conditioners

SolAir World is an established International Company delivering product and service throughout Asia, Australia, India, the Middle East and beyond.

A new technological breakthrough, using thermal energy, when sized and installed correctly makes SolAir World air conditioning up to 30 – 70%\* more energy efficient at an affordable price.

After seven years of research, hybrid thermal boosted air conditioning systems are now available at an affordable price and systems can pay for themselves within a very short period of time.

With comparable installation costs to a conventional system, SolAir World air conditioning will become the preferred option globally and is positioned to become the preferred option for major builders and developers as pressure increases to go "green"

- **Saving you up to 30-70%\* in energy usage.....**
- **Quieter than traditional systems**
- **Professional Installation** by SolAir World accredited installer provides a 5 year warranty

which includes 5 years parts and 3 years labour on your air conditioner

***\*Up to 70% on power usage can be achieved during the low frequency (off cycle) **if installed and sized correctly** and once roomtemperature has been reached **based (Duel head units)** Test results are based on third party testing and actual installations.***