



Energy Efficiency at an Affordable Price

Its much more than just adding bigger coils.

Energy efficiency is certainly a hot topic at the moment and will continue to be as energy prices continue to rise and we see the introduction of the Carbon Tax. For the air conditioning industry we are all working to produce higher EERs and Temperzone believes the balance between cost and efficiency can only be achieved by continual development of our own products.

Shane McBride from Temperzone commented, "Energy efficiency is not a hit and miss process. It's an exact refrigeration engineering science. Temperzone understands building an energy efficient design is much more than just adding bigger coils!"

We are able to develop high efficiency equipment based on the following principles:

- Sound air conditioning engineering design

principles.

- Ensuring the optimum refrigeration system balance point is met.
- Evaporator and condenser coils are thermodynamically balanced across a wide range of operating conditions.
- Individual components are selected at the required duty points not just at nominal operating conditions and then placed into a balanced system.
- Specifically designed and circuited evaporator and condenser coils, sized to ensure the optimum system operating pressures so as not to artificially increase the electrical input.
- Ensuring the correct refrigerant distribution and velocity with the system.

Energy efficiency is a balancing act. By just increasing coil surface area, as many others do, you reach a point where the system simply becomes financially, physically and thermodynamically impractical.

balance improved efficiency with affordability. So with many of our units the base model is already well above the EER of our competitors, with a range of options that increase the energy efficiency and functionality even further.

Temperzone’s approach has always been to

A good example is our new 70kW Rooftop Package Unit.

Unit	Temperzone OPA 700RKTBH
List Price	\$16,250.00 + GST
EER	3.17
Airflow	3700 Vsec @ 310 Pa External Static
Max Airflow	4650 Vsec @ 175 Pa External Static
Evaporator Fan	DWDI Evap Fan.
Condensor Fan	Vari Speed Condenser Fans
Compressors	2 X equal capacity compressors
Refrigerant	R 410A
Ambient	Tested to 50°C ambient
Refrigerant Registration	EEV
Insulation	Polyolefin Foam + Reinforced Aluminium Foil (Closed Cell Foam + Foil Facing)

Its standard specifications are listed below. In this configuration it is already the most energy efficient 70kW Package Units on the market.

Options: Plug Fan, which raises the EER to 3.25, DiGital Scroll Compressor providing 10% to 100% capacity control, Modbus, Bacnet, Lonworks control interface, Economy cycle and 32 Handing configurations. Please note for a full list of options

please refer to downloadable specification sheet [click here](http://www.temperzone.biz) or visit www.temperzone.biz

Temperzone is the Australian market leader in developing and manufacturing energy efficient rooftop package units. Our future direction is to maintain the development of Affordable Energy Efficient equipment across our entire product range.