



# ESP PLATINUM

CHANGING THE GAME  
FOR DUCTED AIR-CONDITIONING



ACTRONAIR  
ESP  
PLATINUM

  
**ActronAir**<sup>®</sup>  
Australian for air conditioning<sup>™</sup>



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ActronAir has been designing and building air conditioning systems, for Australia's unique and demanding conditions, since 1984.

The company's technological advancements have led to development of some of the most energy efficient systems in the world. For virtually any application, there is simply no better solution than an ActronAir air conditioning system.

**ActronAir**

# ESP Platinum. Changing the game with advanced technology.



The leading Australian owned air conditioning brand, ActronAir is passionate about designing and engineering the most comfortable and efficient air conditioners in the world.

After all, when you live in one of the harshest climates on earth, you need a system that's built to handle it.

This obsession with innovation and quality has also resulted in many energy saving solutions.

## ESP. Energy Smart Performance.

ActronAir invented Energy Smart Performance which led to the development of the award winning ESP Plus.

Now ActronAir raises the bar even further with the release of the ESP Platinum Series. The most advanced residential air conditioners ever built in Australia, ESP Platinum utilises Tru-Inverter technology to deliver the most comfortable ducted air conditioning on the market with the lowest running costs.



ESP Platinum Plus uses Energy Smart Zoning to deliver better energy efficiency and enhanced comfort levels.

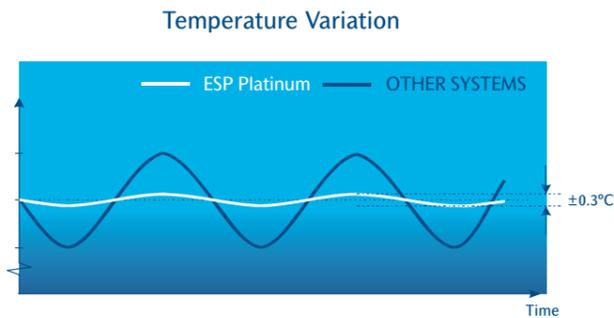


ESP Platinum Ultima combines Energy Smart Zoning with the ability to control different temperatures in different zones all at the same time, providing the ultimate in comfort levels and improving energy efficiency even further.

# Tru-Inverter™. The Next Generation in Energy Smart Performance.

Choosing a new air conditioner isn't a decision to be taken lightly. Things like effectiveness and running costs have to be carefully considered. But thanks to the advanced technology of the ESP Platinum Series, you get the best of both worlds.

To begin with, ESP Platinum offers incomparable temperature control, thanks to Tru-Inverter technology. Tru-Inverter will deliver the ideal amount of heating and cooling in your home – a feature that not only maintains better comfort levels, it can also reduce energy costs at the same time.



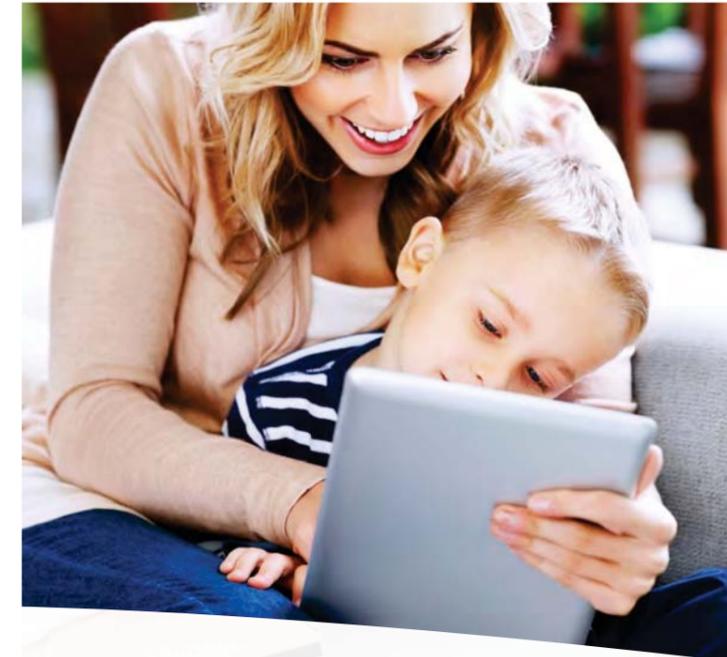
Engineered to deliver the optimum balance in temperature stability, the ESP Platinum Series reaches an ideal comfort level quickly and maintains it intuitively. In fact, precise temperature of within  $\pm 0.3^{\circ}$  of the set point can be achieved at the sensor location.

Tru-Inverter technology is a full variable system that can ramp down to as low as 20% capacity to keep your home comfortable and operate continuously between 20-100% capacity. (Other, less advanced, Inverters will only operate down to 40-50% capacity, resulting in greater temperature fluctuations and more energy use).

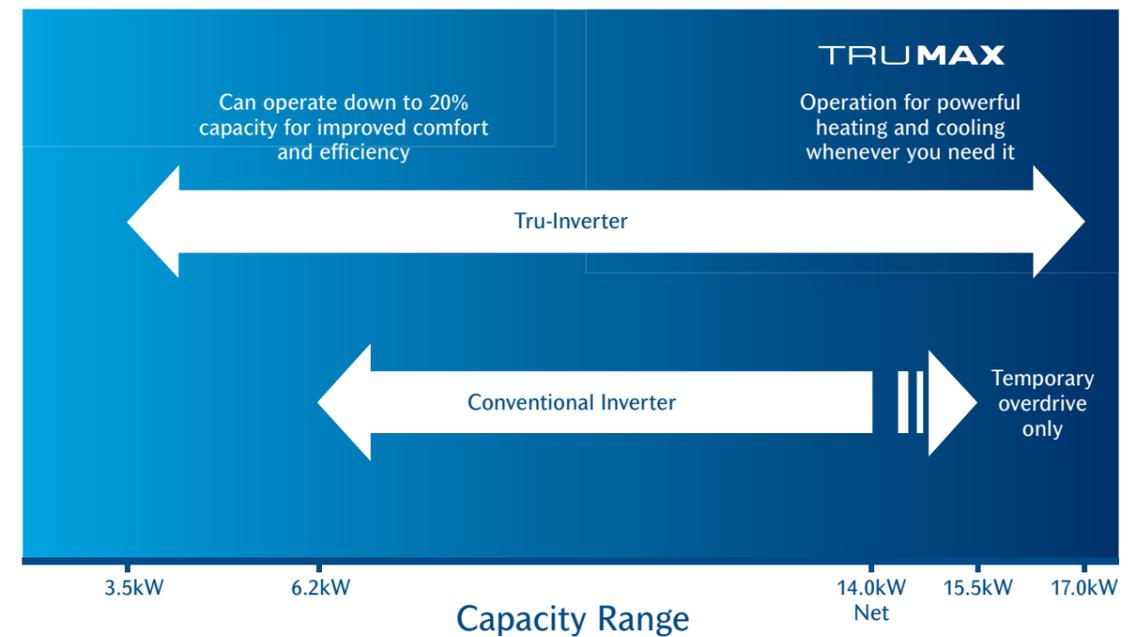
Most Inverters use step, rest and stop cycles during the heating cycle, leading to larger temperature fluctuations and much higher energy usage.

ESP Platinum is the only system with Tru-Max technology. Which means that once maximum capacity is reached, it can be sustained for as long as is required.

Other conventional inverters simply cannot maintain maximum capacity without the drive overheating. The Tru-Inverter drive is engineered with larger heat sinks and an independent cooling fan so maximum capacity can be sustained.



Tru-Inverter has a wider capacity range vs. other inverters



Example of ActronAir ESP Platinum CRV/ERV3-17AS vs. Conventional Inverter



Tru-Inverter™ variable speed compressor and drive technology

# The ESP Platinum Series. Taking comfort to a whole new level.



The ESP Platinum Series changes the game for comfort levels. In fact, thanks to advanced technology, ESP Platinum can heat and cool faster when compared to conventional inverter systems by reaching maximum capacity up to 5 times faster.

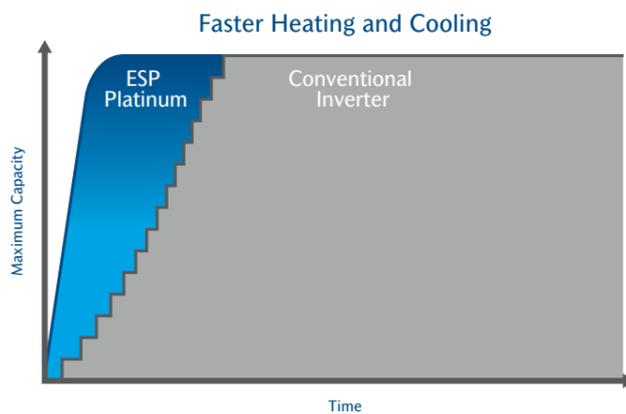
## Fastest heating and cooling.

From the moment it switches on, ESP Platinum uses Tru-Inverter technology to seamlessly ramp up to maximum capacity, to deliver the fastest cooling and heating. This is far beyond the performance of less advanced Inverter systems that have to “step and rest”, and take considerably longer to reach maximum capacity.

## Quieter Operation

A Sound Reduction System (SRS) reduces sound levels from the Outdoor Unit. In addition, the Tru-Inverter has improved sound quality compared to conventional technology. As the system reduces to part load capacity sound levels are minimised even further.

Indoor sound levels are reduced with the use of quieter EC indoor fan technology. In addition, as zones are switched off, airflow is automatically adjusted to minimise sound levels.



ESP Platinum Series. Faster heating and cooling vs. other technology



Mark Winterbottom, V8 Supercar driver, keeps the family comfortable at home thanks to ActronAir ducted air conditioning.

## Minimise cool drafts in winter.

ActronAir systems have an inbuilt Preheat Delay function. This preheats the indoor coil before the fan starts - ensuring drafts are minimised on start-up during heating cycle.

## Superior operating range.

ActronAir understands the requirements of the harsh Australian climate, and that's why all its systems are engineered to survive extreme conditions.

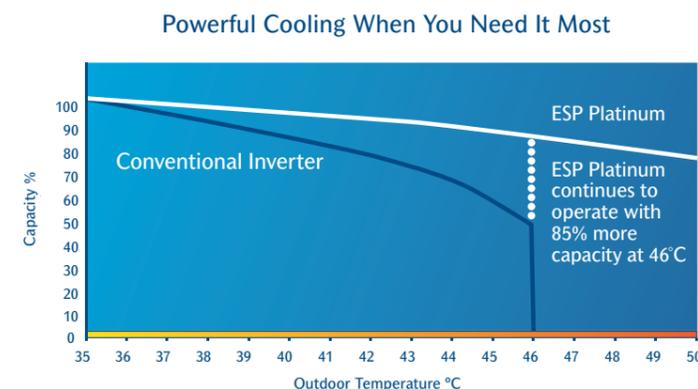
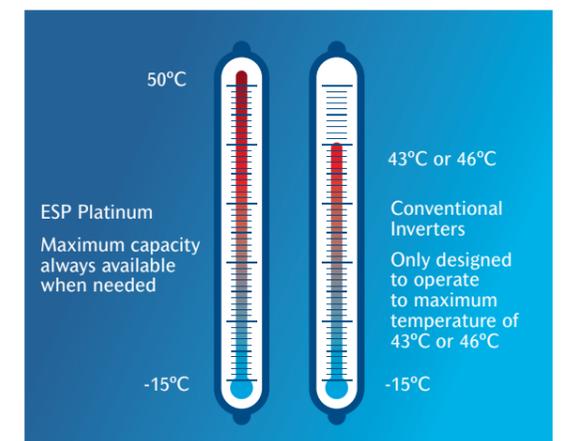


For example, heatwave conditions are unpredictable and may last several days during summer. But even while air temperature may be 43°C, your air conditioner could be in a position where the temperature reaches as high as 50°C.

Most systems are only designed to a maximum operating range of 43-46°C and have inbuilt safety mechanisms that reduce output in extreme conditions. Discovering that your system has effectively stopped working during a heatwave would be an unpleasant surprise to say the least!



## Superior Operating Range



# Up to 75% energy savings with Energy Smart Zoning.

ESP Platinum Plus is up to 75% more efficient than conventional fixed speed technology and 50% more efficient than a conventional inverter.

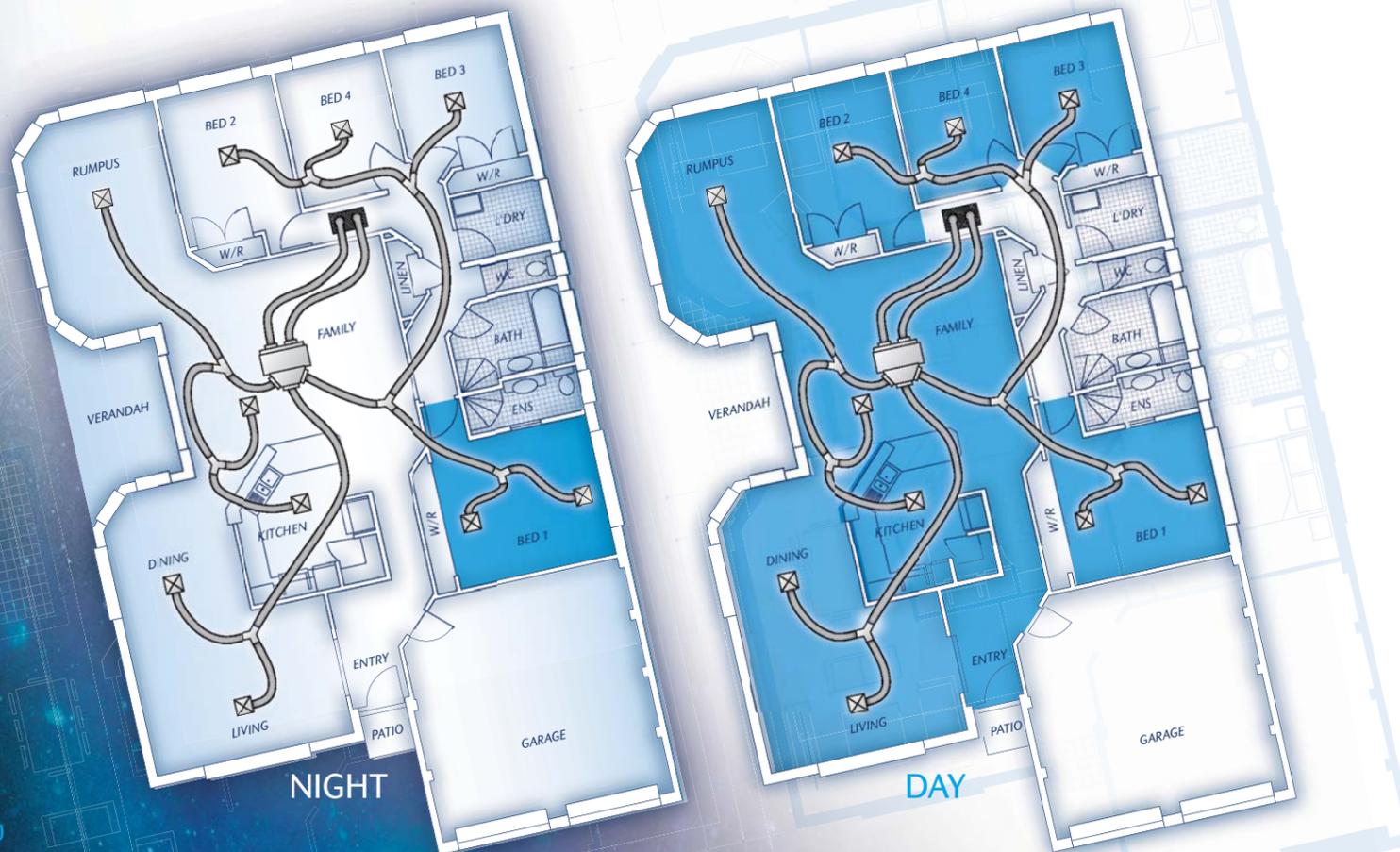
Typically, Australian homes have large individual living areas. When air conditioning is installed, these areas are split into 'zones' that can be switched off when unoccupied. On the surface, this sounds like a sensible energy saving feature. But while traditional systems may be able to shut down a zone, most don't automatically adjust their airflow. In other words, the zone may be turned off, but the

system's fan continues at the same speed, wasting energy and producing excess noise as a by-product.

That's why ESP Platinum Plus has Energy Smart Zoning. It enables the system to adjust airflow and system capacity, intuitively. The Variable Fan Technology (VFT) delivers exactly the right amount of conditioned air to the zones that are on, decreases excess air velocity and associated noise, and significantly reduces energy usage.

Which is perfect for those hot summer nights when you want just enough air conditioning to keep bedrooms cool and quiet, without wasting energy.

Energy efficient right down to one zone.



## Energy Efficiency puts ESP Platinum Plus in front.

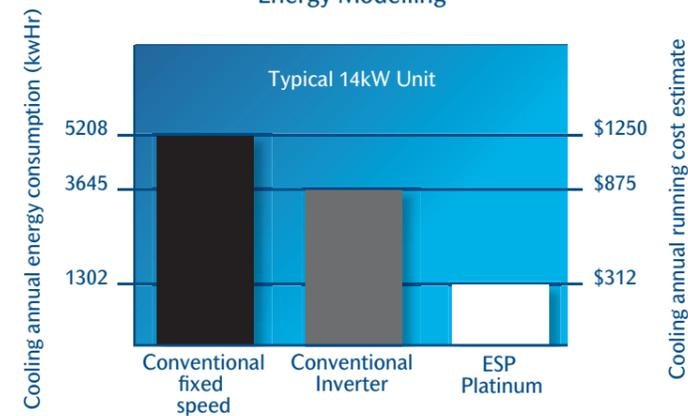
Energy modelling of a typical 4-bedroom home in Sydney's west was conducted for 3 technologies:

- Conventional fixed speed
- Conventional Inverter
- ESP Platinum Plus with Tru-Inverter technology and Energy Smart Zoning

Cooling energy consumption was calculated for each of the technologies.



Energy Modelling



Over a 5 year period, you could save up to \$4500\* on your cooling electricity costs vs. other commercially available technology.

Based on electricity price of 24c per kW/H and the cooling energy consumption, this translates to a saving of up to \$900\* per annum compared to conventional fixed speed systems.

\*This is based on laboratory testing and energy modelling for cooling. When taking into account heating operation, this result may improve even further.

# Different temperatures in different zones all at the same time.

The ultimate in comfort has arrived. With ESP Platinum Ultima, you now have the ability to set different temperatures in different zones.

So while a baby sleeps comfortably in a bedroom at one temperature, a lounge room full of guests can have a different temperature and a games room for the kids can have a different temperature again.

Up to 8 individual zone controllers or sensors can run off the system, so you can create the ideal environment in virtually any area of your home.

In fact, ESP Platinum Ultima is the most comfortable year-round air conditioning available. Different areas of the home or office have different temperature loads at different times throughout the day, not to mention the different seasons.

That's why, depending on the location of the sun in the sky, a room may be cooler in the morning and warmer in the afternoon. However, having a sensor within the room ensures the set temperature is maintained at all times and rooms do not get over conditioned which also further saves energy.



### Master Controller

The slimline Master Controller features a backlit display and easy to use 8-zone integrated touch pad. This sets the Master temperature for the areas with Zone Sensors and can control system operation including fan speeds and timers.



### Individual Zone Controller

The Zone Controller can adjust the comfort settings for each zone. This allows you to adjust the temperature of the zone, or turn the zone on or off.



### Zone Sensor

The Zone Sensor can be used in areas where you want the Master Controller to control the temperature of that zone. This is a simple alternative to the Zone Controller. Ideal for kids' rooms where you don't want little fingers making any adjustments.

\*ESP Ultima has a factory preset max. span of 4°C between individual zones and a preset max of ±2°C between the master controller and an individual zone. This aims to maximise energy efficiency of the system.

# ActronAir introduces world-leading innovations.

With improved comfort, superior performance and lower running costs, a new benchmark in quality and innovation has been set. ESP Platinum Series.



ActronAir



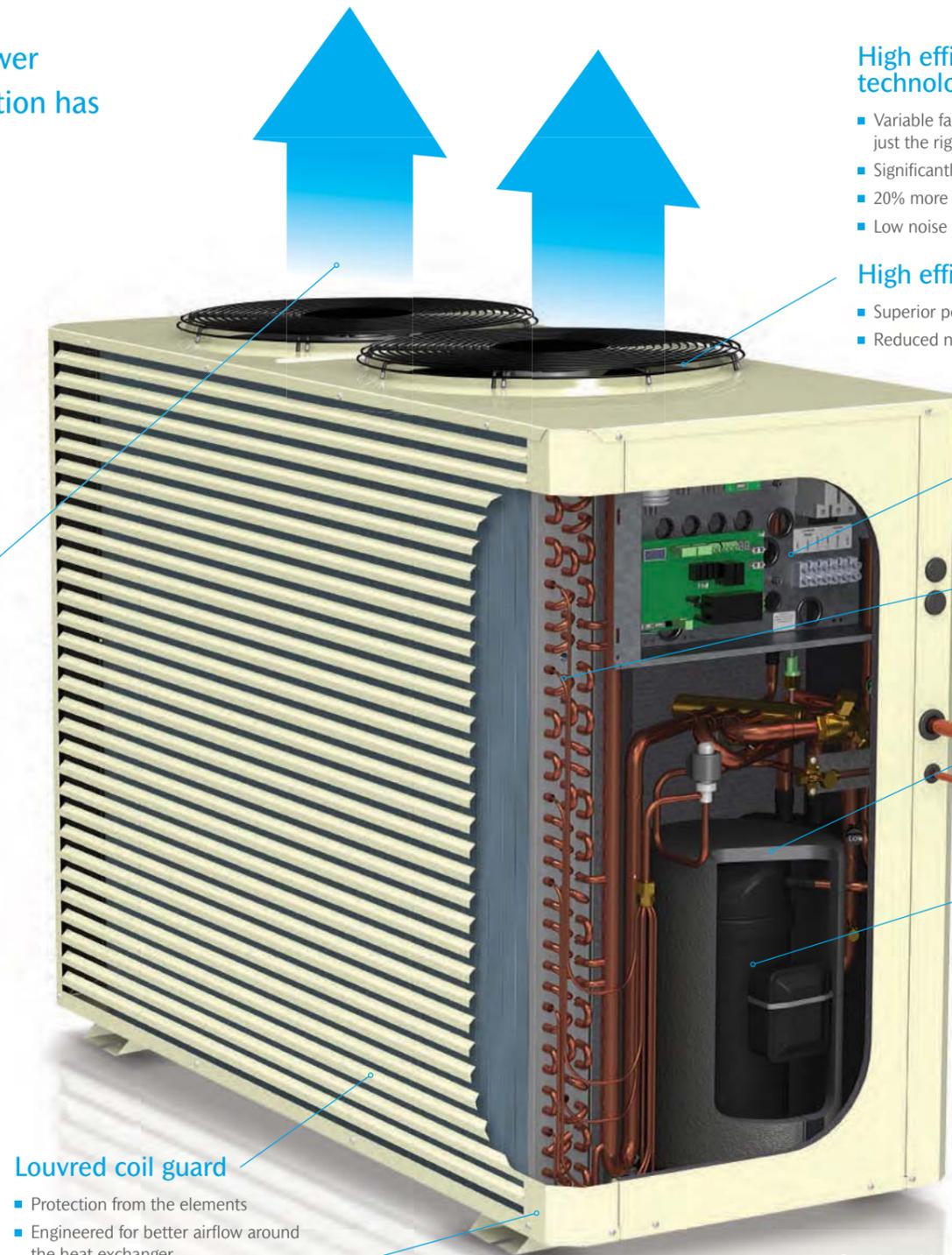
Other brands

## Vertical Discharge

- Releases hot air upwards for improved air circulation around the outdoor unit
- Results in improved performance, especially on hot days

## 8-zone Controller

- Easy to use 8-zone integrated touch pad
- Slimline design to suit most interiors
- Auto/Heat/Cool changeover
- On board temperature sensor
- 0.5°C temperature increments for more precise control
- 3 speed fan and ESP mode
- Fan only operation
- 7 day programmable clock
- 24 hour programmable timer
- Filter clean reminder
- Cool white backlight
- Compatible with home automation for remote on/off control
- Optional secondary temperature sensor
- Optional secondary controller with mimic logic



## High efficiency EON Neo EC fan technology

- Variable fan automatically adjusts to deliver just the right amount of airflow to zones
- Significantly reduces energy consumption
- 20% more efficient than a DC motor
- Low noise

## High efficiency outdoor fans

- Superior performance
- Reduced noise



Indoor Unit

## ActronControls smart logic platform

- Fully integrated electronics and controls platform ensures the entire system works together seamlessly
- Smart defrost function

## High performance heat exchangers

- Optimised refrigeration circuit
- Enhanced rifle bore tube
- Hydrophilic coil coating protection

## Sound Reduction System (SRS)

- Quieter operation
- Compressor sound jackets and sound enclosure

## Tru-Inverter™ variable speed compressor and drive technology

- Delivers fastest heating & cooling
- Stepless inverter
- Variable capacity 20-100%
- Tru-Max™ operation for powerful heating and cooling when you need it most
- Best in class seasonal energy efficiency for lowest running costs



## Superior operating range

- Engineered to operate from -15°C to 50°C
- Tested to exceed Australian standards T3 AS/NZS3823 for 52° conditions



## Louved coil guard

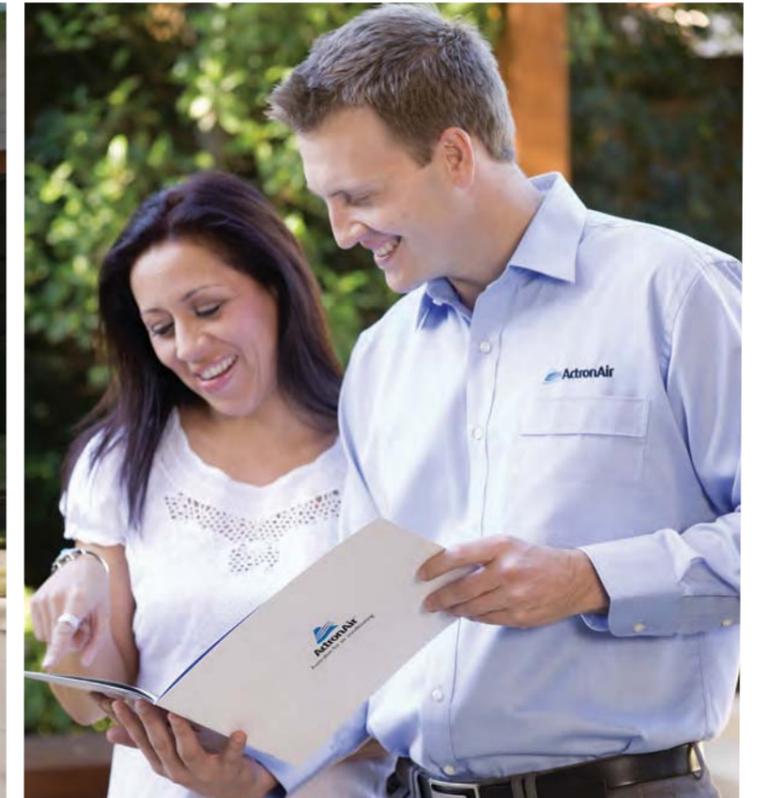
- Protection from the elements
- Engineered for better airflow around the heat exchanger

## Powder coating

- Engineered to withstand 1000 hours salt spray exposure as per AS/NZS4506: 2005

Outdoor Unit

# ESP Platinum. Comfort you can depend on.



ActronAir is an Australian owned and managed company. So you'll never have to look far for product support. Furthermore, the ActronAir National Service Network is always available to provide quick and reliable service where and when it's needed.

A substantial 5-year residential warranty provides even more peace of mind.

### *Environmental/Innovative Product of the Year Winner*

*ActronAir's obsession with innovation and quality has led to the development of many energy saving solutions. In fact, ActronAir was recognised by the air conditioning industry with the inaugural Coolworld award. This acknowledged technology that significantly and measurably reduces the impact of air conditioning on the environment.*



### **Insist on an ActronAir Specialist.**

Every home is different and your ActronAir specialist will advise you on the best configuration to suit your lifestyle.

An ActronAir specialist is also qualified to install your air conditioning system quickly and safely and provide the best ongoing service should you need maintenance, spare parts or advice.

### **Insist on an ActronAir Genuine Parts.**

Your ActronAir specialist can provide you with genuine ActronAir parts and accessories for peace of mind and years of trouble free operation.





## Split Ducted Variable Capacity ESP Platinum Plus (Single Phase)

Technical Information				
OUTDOOR MODEL		CRV2-14AS	CRV3-17AS	CRV4-19AS
INDOOR MODEL		ERV2-14AS	ERV3-17AS	ERV4-19AS
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Min/Rated/TRU <sup>MAX</sup> *)	2.85 / 12.50 / 14.40	3.50 / 14.00 / 17.00	4.00 / 17.00 / 19.00
	Heating (Min/Rated/TRU <sup>MAX</sup> *)	2.70 / 14.00 / 15.40	3.60 / 17.00 / 19.00	3.75 / 19.00 / 20.00
Input Power (kW) (AS/NZS3823.1.2)	Cooling (Rated)	3.79	4.17	5.10
	Heating (Rated)	3.64	4.72	5.14
<sup>2</sup> EER Rated (AS/NZS3823.1.2)	Cooling (Rated)	3.30	3.36	3.33
<sup>3</sup> COP Rated (AS/NZS3823.1.2)	Heating (Rated)	3.85	3.60	3.70
Power Supply (V / Ph / Hz)	Outdoor	230V / 1Ph + N / 50Hz		
	Indoor	230V / 1Ph + N / 50Hz		
Rated Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	14.3 / 2.8 / 17.1	15.4 / 3.5 / 18.9	18.9 / 4.0 / 22.9
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	21.6 / 2.9 / 24.5	26.2 / 3.5 / 29.7	26.9 / 4.0 / 30.9
<sup>4</sup> Circuit Breaker Amps (Suggested)		25.0	32.0	32.0
IP Rating	Outdoor	IP44		
	Indoor	IP20		
Compressor	Type / No. per Unit	Tru-Inverter Variable Speed Scroll / 1		
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		1 / Variable Capacity (20-100%)		
Refrigerant		R410a		
Fans (Type x Number per unit)	Outdoor	Axial / 6 Pole External Rotor / Direct Drive x 2		
	Indoor	Twin Deck Centrifugal / ECM Direct Drive x 1		
Airflow Range Indoor (l/s)	Maximum	900	1000	1150
	Nominal	660	750	900
	Minimum	170	200	240
Outdoor Dimensions (mm)	Depth	580	580	580
	Height	990	1045	1045
	Width	1320	1460	1460
Indoor Dimensions (mm)	Depth	615	615	680
	Height	412	412	435
	Width	1290	1290	1420
<sup>5</sup> Nominal Weight (kgs)	Outdoor	136	150	160
	Indoor	59	62	76
<sup>6</sup> Sound Pressure Level (dBA)	Outdoor (low/high fan)	47 / 52	48 / 54	48 / 54
<sup>7</sup> Sound Power Level (dBA)	Outdoor (low/high fan)	64 / 69	65 / 71	65 / 71
MEPS Certified		Yes	Yes	Yes

Control Features			
LM7-D Wall Controller (8 Zone)	Included	Included	Included
LM24W Wall Controller (8 Zone) - Secondary Master Controller	Optional	Optional	Optional
Remote Temperature Sensor	Optional	Optional	Optional
Home Automation ON / OFF Capability	Yes	Yes	Yes
ActronConnect module for wireless control	Optional	Optional	Optional
Maximum Number of Zones	8	8	8

\*TRU-MAX. See page 6 for definition.

### Foot Notes

- Based on unit rating excluding indoor fan kW.
- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
- COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating).
- Recommended circuit breaker size. This should be used as a guide only. Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.
- Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
- Sound Pressure Level at 3m distance is determined as the measured sound pressure at 3m perpendicular to the coil side of the condenser.
- Determination of Sound Power Levels of Noise Sources, AS1217.2 - Precision Methods for Broad-Band Sources in Reverberation Rooms.

### Important Notes:

- The Local Electricity Supply Authority may require limits on - starting current, running current and voltage drop, please check prior to purchase.
- When the outdoor temperature exceeds the rated conditions, the cooling/heating capacities may decrease the rated nett values.
- Specifications subject to change without notice.



## Split Ducted Variable Capacity ESP Platinum Ultima (Single Phase)

Technical Information				
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INDOOR MODEL		ERM2-14AS	ERM3-17AS	ERM4-19AS
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	Heating (Min/Rated/TRU <sup>MAX</sup> *)	2.70 / 14.00 / 15.40	3.60 / 17.00 / 19.00	3.75 / 19.00 / 20.00
Input Power (kW) (AS/NZS3823.1.2)	Cooling (Rated)	3.79	4.17	5.10
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Power Supply (V / Ph / Hz)	Outdoor	230V / 1Ph + N / 50Hz		
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Rated Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	14.3 / 2.8 / 17.1	15.4 / 3.5 / 18.9	18.9 / 4.0 / 22.9
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Compressor	Type / No. per Unit	Tru-Inverter Variable Speed Scroll / 1		
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MEPS Certified		Yes	Yes	Yes

Control Features			
LM7-D Wall Controller (8 Zone)	Included	Included	Included
LM24-W Wall Controller (8 Zone) - Secondary Master Controller	Optional	Optional	Optional
LM-ZC Zone Controller	Optional	Optional	Optional
LM-ZS Zone Sensor	Optional	Optional	Optional
Home Automation ON / OFF Capability	Yes	Yes	Yes
ActronConnect module for wireless control	Optional	Optional	Optional
Maximum Number of Zones	8	8	8

### Rated Conditions:

Cooling: 35°C DB Outdoor / Air Entering Indoor 27°C DB, 19°C WB  
Heating: 7°C DB, 6°C WB Outdoor / Air Entering Indoor 20°C DB

### Ducted System Operating Range:

Cooling: 15°C DB to 50°C DB Outdoor / Air Entering Indoor 29°C DB  
Heating: -15°C DB to 21°C DB Outdoor / Air Entering Indoor 21°C DB

### Warranty:

For full terms and conditions of ActronAir warranty, please refer to warranty terms document - www.actronair.com.au





**ActronAir<sup>®</sup>**

Australian for air conditioning<sup>™</sup>

[www.actronair.com.au](http://www.actronair.com.au)