



# BONAIRE®

The leaders in heating and cooling

# Pinnacle®

NOW WITH ENHANCED



COOLING OPTION



Whole of home cooling for Australian family homes.



## Why choose Bonaire®?

### Australian manufactured.

As a leading manufacturer of evaporative coolers, Bonaire has been providing homes with fresh, natural airconditioning for over 60 years.

We are dedicated to manufacturing world class evaporative coolers. Using proven technology we create intelligent, user friendly systems that maximise efficiency whilst being economical to own and operate. We are ISO9001 quality accredited and constantly strive to introduce product improvements and refinements to ensure that the Bonaire name is synonymous with quality and innovation.

All Bonaire products are manufactured at our factory in Adelaide in South Australia.

All Bonaire products are backed by our own company operated service division providing the highest levels of after sales service to our customers.



### Built for Australian conditions

Bonaire coolers have been designed and manufactured to provide effective and efficient cooling to suit Australia's harsh temperature extremes.

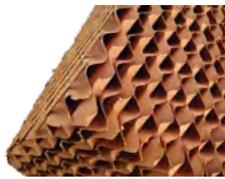
The quality, durability, and reliability of the Bonaire product is now recognised worldwide resulting in the products being sold to many countries around the world.



# Introducing the Bonaire® Pinnacle® The Pinnacle in Evaporative Cooling



Bonaire continually searches the world to bring you the latest in evaporative cooling technology. The Bonaire Pinnacle is a quantum leap forward in evaporative cooling technology providing you with the ultimate in efficient cooling that operates at considerably less running costs than standard coolers and includes some of the most advanced operational features of evaporative coolers today. So if you are looking for the ultimate in ducted evaporative cooling, then the Bonaire Pinnacle is the only choice for you.



## Solar Enhanced Cooling

Bonaire's solar enhanced cooling option allows you to operate your Pinnacle cooler with an optional solar panel kit. The clever option automatically switches your unit to mains power when the output of the solar panel is not sufficient and also generates power back into your household grid.\*\*\*

## More Air

Utilising the latest in electronically commutated motor technology and advanced fan design, the Bonaire Pinnacle delivers more airflow than any other Bonaire domestic evaporative cooler.

## More Cooling

The Bonaire Pinnacle utilises super thick Filtercool® 120mm filter pads to provide you with optimum cooling performance.

## Low Running Costs

The ImPress® electronically commutated motor in the Bonaire Pinnacle utilises axial flux motor technology delivering energy savings up to 40%\* on standard motors.

## Low Noise

The Bonaire Pinnacle has been specifically designed to operate as quietly as possible at all airflow levels with the introduction of a new Aerowing® fan with Bonaire Vortex Generators® that was created in conjunction with the assistance of a leading aircraft designer.

## More Control

The Bonaire Pinnacle utilises the latest in controls technology with a host of new features such as humidity control and exhaust function\*\*. Bonaire's Navigator® radio frequency remote control even allows you to control your cooler from the comfort of your armchair!

New this season, Bonaire's optional My Climate® Wi-Fi® control kit enables you to turn on your evaporative cooler remotely and control your evaporative cooler with your smart device.

\*40% cost saving based on the running costs a 950W ImPress® motor versus a standard 950W induction motor operating for 960 hours with electricity costs at \$0.35 per kW/Hr.

\*\*Bonaire exhaust function can only be operated if Bonaire Enviroseal is not fitted.

\*\*\*Bi-directional meter needs to be fitted or Smart Meter reprogrammed to allow surplus power to be exported to the mains grid.

# What is ducted evaporative cooling and how does it work?

Ducted evaporative cooling is a whole of home solution that allows you to cool the entire house using just one system.

The outdoor unit is usually located on the roof of the home and installed on a dropper duct. Cool air is drawn from outside, passed through moistened filter pads then circulated throughout the home via a network of ducts.

A ducted evaporative cooling system delivers clean, fresh, naturally cooled air throughout your home. Doors and windows are left open to exhaust the air. The clean filtered air leaves your home free of any contaminants.



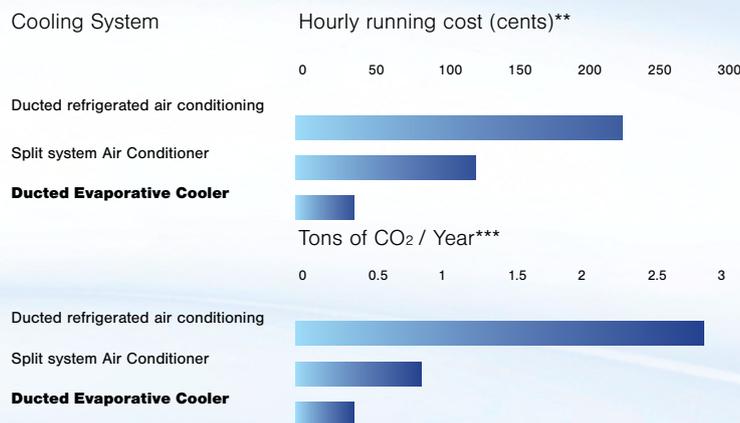
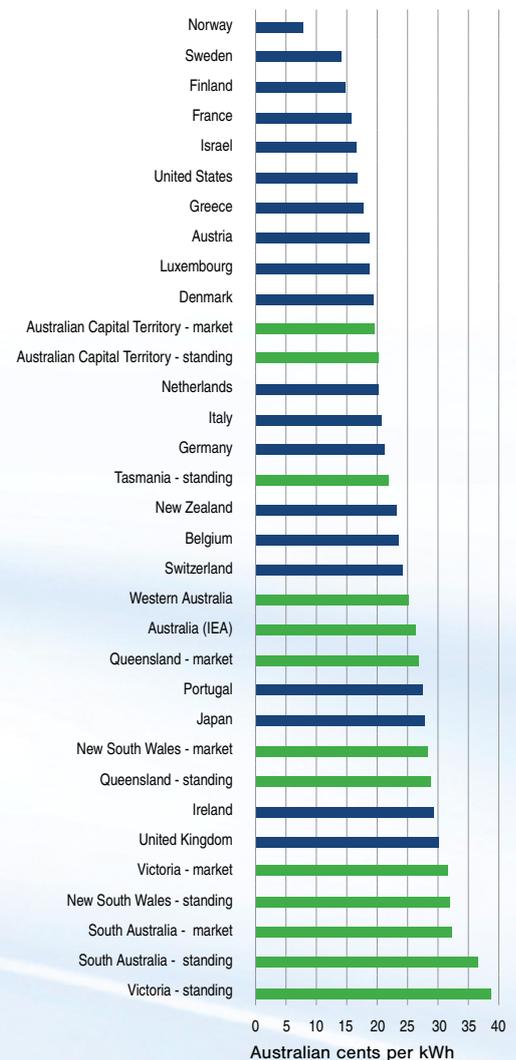
## Key benefits of ducted evaporative cooling

The key benefit of ducted evaporative cooling is whole of home cooling that is significantly cheaper to install and significantly cheaper to run than standard ducted refrigerated air conditioning systems that usually operate as a zoned system. **And with power prices in Australia now higher than average prices paid by comparable OECD countries\***, never before has evaporative cooling been more clearly the best way to keep your cooling energy costs at a manageable level.

Evaporative cooling is the healthy choice, circulating clean, fresh, naturally cooled air throughout your home, compared to recirculated air used in ducted refrigerated air conditioning systems. The clean, filtered air is soft and gentle on the eyes and nose and does not dry out the skin which is often better for hay fever and many asthma sufferers.

Evaporative cooling is environmentally friendly, producing less CO2 greenhouse gases than a standard ducted refrigerated or wall hung split system.

Household prices exclusive of taxes (market exchange rates)



\*Source - Mark Intell Report prepared for One Big Switch, July 2016  
 \*\*SA Gov Summer Cooling Guide 2015-16. Based on a conditioned area of 125m2  
 \*\*\*SAEV Victoria. Choosing a cooling system November 2002



## Bonaire® provides you with Peace of Mind

### Bonaire Premier Dealers

When it comes to expertise in installing Bonaire heating and cooling products, a Bonaire Premier Dealer will provide you with the highest levels of professionalism, installation quality, after sales service and reliability. Bonaire Premier Dealers have been specifically selected by Bonaire. Only dealers that meet rigorous requirements and maintain industry leading quality standards are eligible. You are guaranteed a heating and cooling solution that specifically meets your needs. Bonaire Premier Dealers exclusively offer a 7 year product warranty on all Bonaire 4, 5 and 6 star ducted gas heaters. and Bonaire Integra II and Pinnacle evaporative coolers and a seven year workmanship warranty. Bonaire Premier Dealers undertake regular training to maintain their expertise in system requirements which will ensure your Bonaire unit is installed to the highest standards. Bonaire Premier Dealers deliver industry leading technology and service excellence.



### Bonres® Unit Selection Guide

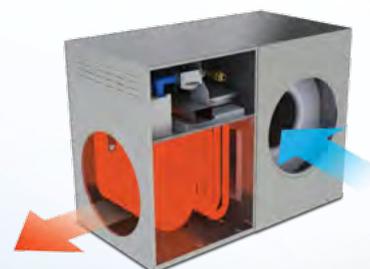
At Bonaire we understand that every home is different. That's why we have developed Bonres® sizing and design software that enables your Bonaire specialist dealer to accurately select the perfect Bonaire evaporative cooler for your home.

After using the Bonres® unit selection guide and having the Bonaire ducted cooler correctly installed and commissioned by a licensed Bonaire specialist, if the Bonaire unit does not perform to specification, Bonaire will repair or replace the Bonaire unit free of charge, or refund your money.



### Combine the benefits of Bonaire evaporative cooling with Bonaire ducted gas heating

Bonaire lets you enjoy complete heating and cooling comfort all year round at the touch of a button. Bonaire's ducted evaporative cooler can be combined with a Bonaire ducted gas central heater using just one controller. You have the choice of installing Bonaire heating at the same time as your Bonaire cooling, or simply add it at a later date. Bonaire's range of ducted gas heaters suit any size home or budget, have low running costs and are easy to install. Ask your Bonaire Premier dealer for a Bonaire ducted gas heating brochure.



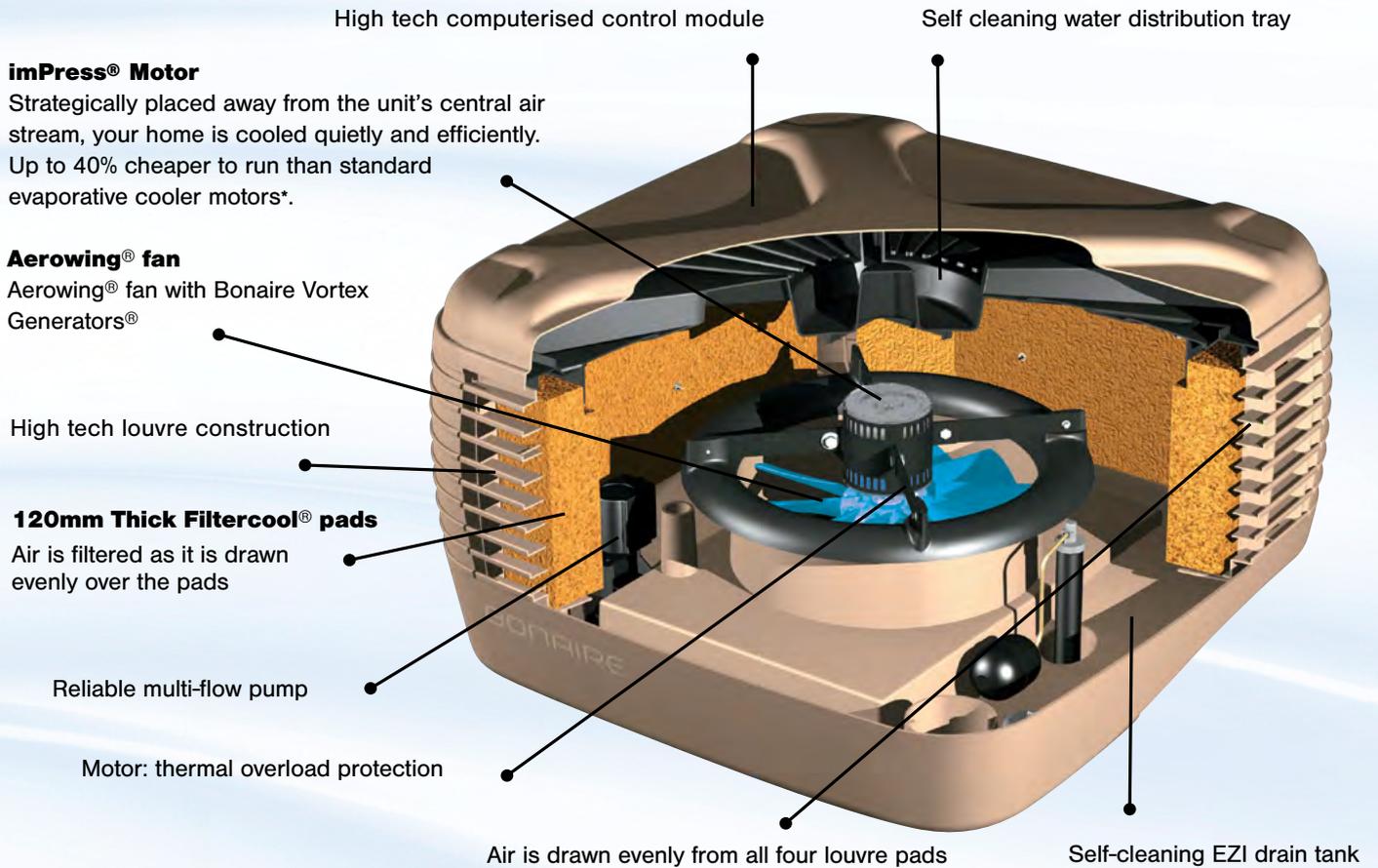
# Bonaire® Pinnacle® A Quantum Leap Forward in Cooling Technology

**The engineering team at Bonaire continually research and source the latest developments in evaporative cooling technology.**

This has culminated in the development of an evaporative cooler that provides the ultimate in efficient cooling that operates at considerably less running costs than standard coolers and include some of the most advance operational features of evaporative coolers today.

**That evaporative cooler is the Bonaire Pinnacle.**

So if you are looking for the ultimate in ducted evaporative cooling, then the Bonaire Pinnacle is the only choice for you.



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# Bonaire Pinnacle® Evaporative Cooling

## Innovative ImPress® Motor Technology

Developed for use in the Australian solar car “Desert Rose” from Charles Darwin University that won the prestigious award for Technical Innovation in the World Solar Challenge, the ImPress motor used in the Bonaire Pinnacle utilises axial flux motor technology delivering energy savings up to 40%\* on standard motors with reduced noise.



## Advanced Bonaire Aerowing® Fan Design

Exclusive to Bonaire, the Bonaire Aerowing Fan was designed with the assistance of a leading aircraft designer. The secret to this fan’s performance is its unique “paddle” fan blade design with Bonaire Vortex Generators® on top of each fan blade. This enables the fan to achieve more airflow and less noise as the fan spins at less RPM than other noisier fan blades.



## Stylish Strong Cabinet Design

Bonaire’s sleek design fits snugly onto the profile of your roof. The sloped base tank holds less water than many flat based units. All Bonaire units are constructed using an injected moulded high strength plastic that is UV stabilised.



## Bonaire Humidity Control

The Bonaire Pinnacle humidity control function allows you to select how often the Filtercool® filter pads are moistened, assisting the operational effectiveness of your Bonaire unit on humid days.

## Bonaire Air Ioniser

The Bonaire Air Ioniser electrically charges the air molecules in the airstream. Negative ions are generated, purifying the air before it is discharged into your home.

## Bonaire Water Management System

The Bonaire Pinnacle uses a water quality salinity sensor to determine the optimal time that the water in your cooler needs to be replaced. This ensures efficient unit operation and limits potential excessive calcium build up. After operation the Bonaire water tank is drained dry and clean.



## Filtercool® Filter Pads

All Bonaire Pinnacle coolers utilise 120mm thick Filtercool filter pads to optimise the cooling effect of your Bonaire cooler.



## Pad Clean Function

Bonaire’s Pad clean function enables you to clean the Filtercool filter pads before unit operation ensuring that your Bonaire cooler operates at maximum efficiency.

## Bonaire PreCool®

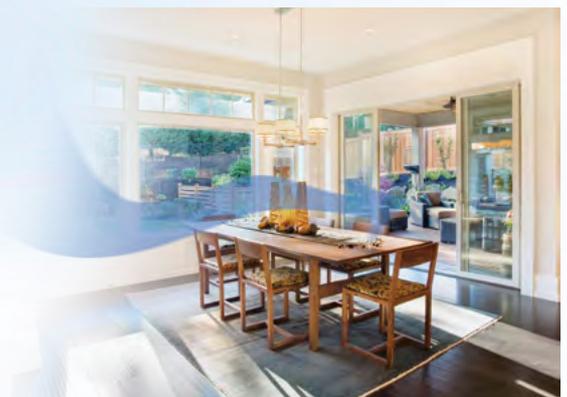
Bonaire’s PreCool function enables the Filtercool filter pads to be pre-moistened before unit operation meaning that you will have cool, fresh air as soon as the Aerowing fan starts operating.

## Bonaire Exhaust Function\*\*

Available on the Bonaire Pinnacle where an Enviroseal® duct shutter has not been installed, the Bonaire Exhaust Function allows you to run the fan in reverse drawing hot air or cooking odours from your home.

\*40% cost saving based on the running costs of a 950W ImPress® motor versus a standard 950W induction motor operating for 960 hours with electricity costs at \$0.35 per kW/Hr.

\*\*Bonaire exhaust function can only be operated if Bonaire Enviroseal is not fitted.



# A choice of state of the art controllers

## Navigator® Remote Control

If you are after the very latest in controls and technology, the Navigator wireless radio frequency control is for you. This controller allows you to change settings without leaving the comfort of your armchair.



- Wireless radio frequency
- Multiple controller option – up to 4 controllers
- Able to operate from room to room
- Thermostat comfort sensing from any room with an outlet
- Large, clear and easy-to-read backlit LCD display
- Customised operational settings
- Diagnostics and error reporting
- Optional controlling of multiple appliances
- Easy to operate in 4 selectable operating modes
- 24 hour programmable start and stop times
- Compatible with Bonaire 4, 5 and 6 star Gas Central Heating and Illec Dual Cycle.

NB: Blue screen for cooling, orange for heating

- Solar mode selector and solar panel power input indicator when connected to Pinnacle solar kit.

## My Climate® Wi-Fi

Bonaire's My Climate Wi-Fi control allows you to control your ducted evaporative cooler, ducted gas heater or dual cycle airconditioner from your Smart Device.

My Climate Features:

- Wi-Fi control that is compatible with most smart devices.
- Utilises existing home Wi-Fi network or mobile network.
- Remote access function allows you to turn on your appliance from work or when you are out.
- Directly syncs with the main thermostat control.
- My Climate Wi-Fi control requires installation of a Navigator hard wired or remote wireless thermostat.

## Navigator® Hard Wired Control

The wall mounted Navigator

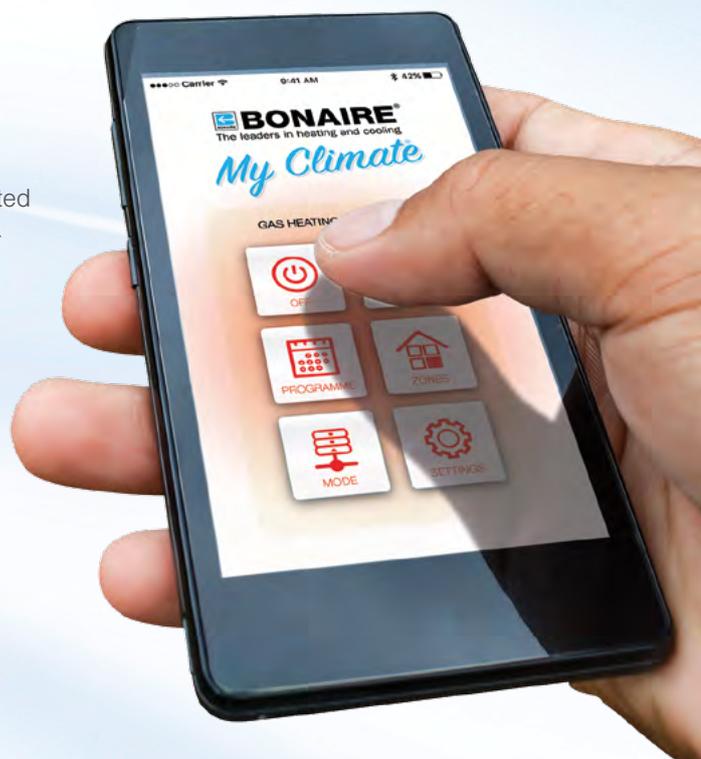
Controller has all of the features of the wireless, but is fixed in the living

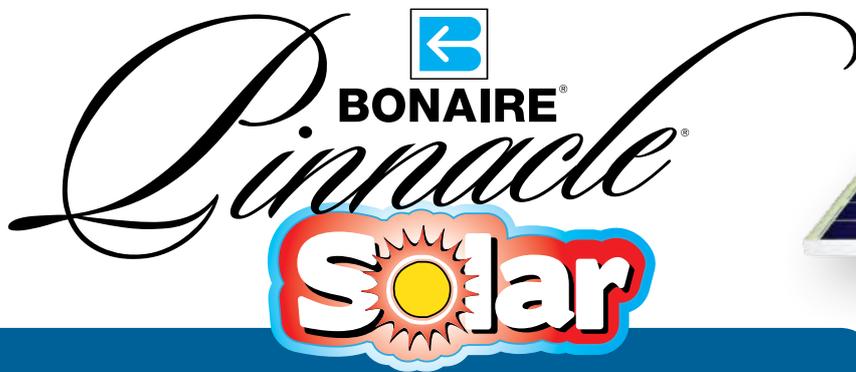
areas of your home. It will maintain temperatures and

operation and allow all setting changes from a fixed location.



- Large, clear and easy-to-read backlit LCD display
- Customised operational settings
- Diagnostics and error reporting
- Optional controlling of multiple appliances
- Easy to operate in 4 selectable operating modes
- 24 hour programmable start and stop times
- Compatible with Bonaire 3, 4, 5 and 6 Star Gas Central heating and Illec Dual Cycle.
- Multiple control option – 1 wall mounted and up to 3 Navigator Remote Controls
- Solar mode selector and solar panel power input indicator when connected to Pinnacle solar kit.

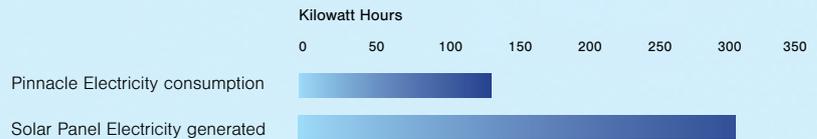




## Eliminate Cooling Power Costs

As electricity prices continue to go up and up, Bonaire has developed the solution. Bonaire's solar panel enhanced cooling option allows you to operate your Pinnacle cooler in solar mode on a lower fan speed until a higher cooling effect is required. This clever option automatically switches your unit to mains electricity when the output of the solar panel is not sufficient to run your cooler. The solar panel continues to generate power, even in Winter.\* This means the amount of electricity generated by the Pinnacle solar panel over a year is over two times the amount of electricity used by a Bonaire Pinnacle over a year\*\*

The amount of electricity generated by the 260W Pinnacle solar panel over a year in Melbourne vs. the amount of electricity used by the Pinnacle operating for 300 hours per year in Melbourne



### Bonaire Pinnacle Solar Features:

- Cheapest form of whole of home cooling with no annual power costs
- Run your cooler during the day whilst you are at work or out without worrying about the running costs
- Automatically switches to mains power supply when required
- Provides additional solar power back into the household grid saving you money
- Simple and easy to install with solar panel mounted on top of unit
- Install the solar panel kit now or wait to later
- Solar panel manufactured in Australia for Australian conditions

The state of the art Australian made Pinnacle solar panel is installed on the top of the evaporative cooling unit and can be installed in

all four directions to maximise

the solar benefit. The unique patented

rod and clamp mounting system securely attaches the solar panel to the cooler. This design has been proven in wind tunnel testing conducted by the University of Adelaide School of Civil, Environmental and Mining Engineering. The solar panel is connected to an intelligent micro inverter that converts DC into AC power that is in turn connected to the cooler control box.



\* Bi-directional meter may need to be fitted or Smart Meter reprogrammed to allow surplus power to be exported to the mains grid.

\*\* Based on Sustainability Victoria guide of the running costs of an evaporative cooler per annum, based on a house area of 166 square meters with 300 hours usage, a 60% duty cycle for air conditioners and an electricity tariff of 28 cents/kWh, April 2014.

\*\*\* Based on Tindo Solar Panel model Karra-260 installed in Melbourne. Panel is unshaded & facing North based on Solar Radiation Data Handbook. Specification of panel subject to change without notice. Refer Tindo Karra Solar System Owner's Manual Issue No. 4b.

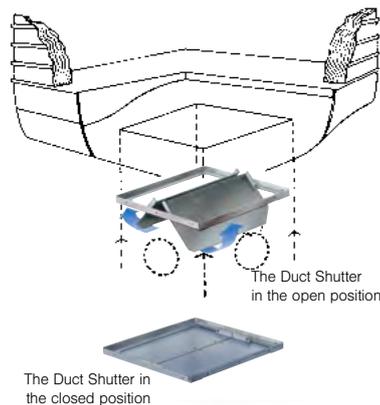
## Bonaire Pinnacle® Additional Features

### Bonaire Maxicooler®

In today's modern Australia our homes are becoming larger to accommodate bigger families. In past years, to cool larger homes with evaporative coolers often meant two units. The Bonaire Maxicooler extra air units have been developed to cool much larger homes with larger fans that deliver more air.

### The Enviroseal® Duct Shutter

The Enviroseal® Duct Shutter comes standard with each Bonaire Pinnacle unit. During the months when your unit is not in use, Bonaire's Enviroseal duct shutter keeps warm air in and draughts out. It's fully automatic and fits into the duct of your evaporative cooling system.



### Bonaire Fire Rated Evaporative Coolers

Installation of the Bonaire Enviroseal contributes to bushfire protection as it is compliant with AS3959.2009 up to bushfire attack level (BAL) 29. As further protection against bushfire, Bonaire units can be fitted with an optional stainless steel ember protection mesh.

Talk to your local dealer for more information about this option.

#### Bonaire Pinnacle Colour Options



### The Bonaire Pinnacle™ comes with a standard 7 year warranty

For added peace of mind, the Bonaire Pinnacle comes as standard with a 7 year warranty. Both the cabinet and parts are also covered by extensive warranties.

Note: Domestic warranty only. Unit warranty for commercial applications is one year parts and labour. For further information on warranty terms and conditions please refer to Bonaire's warranty information booklet.



# Technical Data

## Bonaire Pinnacle Unit Specifications

Models	Motor Size	Height	Height	Width	Dry Weight	Duct Work Connection Size
		Front	Back			
	Watts	(mm)	(mm)	(mm)	(kg)	(mm)
PES160	560	683	573	1192	61	550 x 550
PEM180	880	790	681	1192	65	550 x 550
PEL200	880	1047	937	1192	80	550 x 550
PEH220 Maxicooler	880	1047	937	1192	80	800 x 550

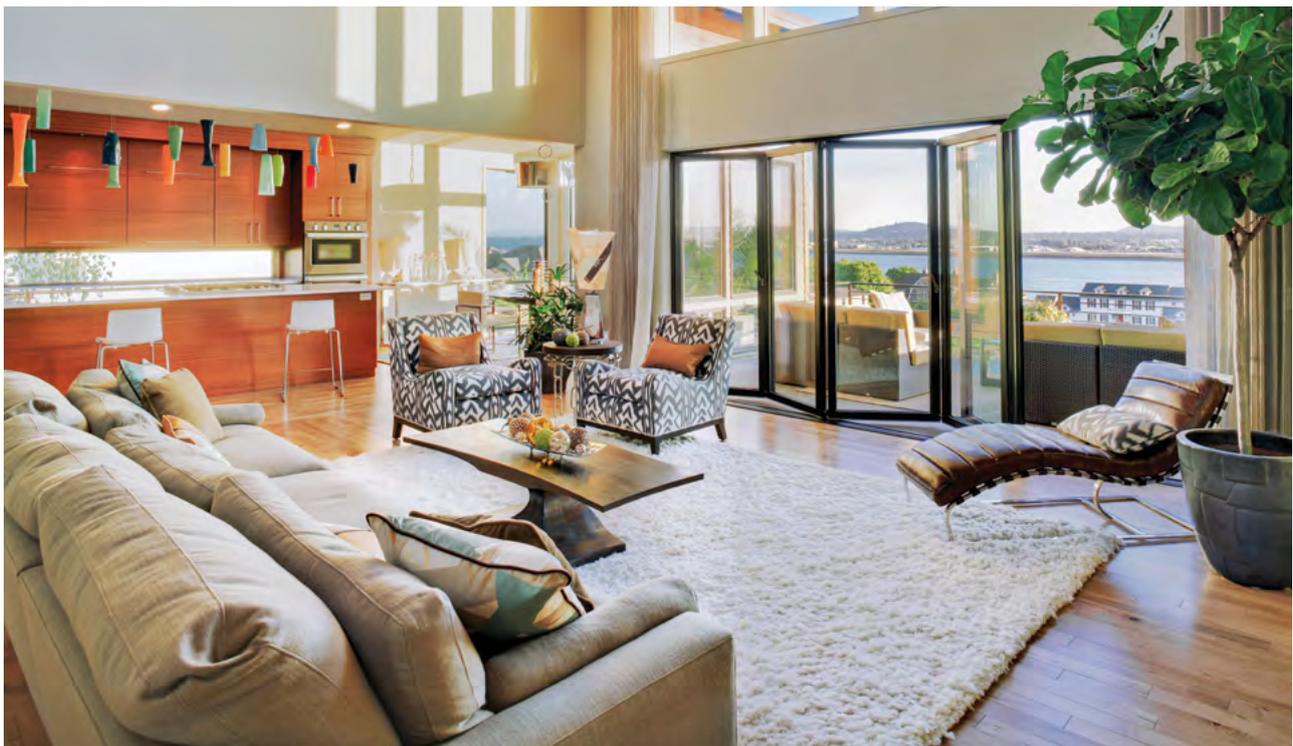
## Solar Panel Specifications

Height	1667mm	Open Circuit Voltage	38.1V
Weight	1000mm	Short Circuit Voltage	8.6A
Depth	40mm	Maximum Power Point Voltage	30.4V
Power	260W	Maximum Power Point Current	8.8A

## Unit Sizing and Performance

All evaporative air conditioners vary in performance according to the architectural features of a home and different climatic conditions in Australia. The Australian Standard AS2913-2000 for Evaporative air conditioning equipment (Standard), Appendix A, provides a method by which cooling performance of evaporative air conditioner systems can be calculated. However, this Calculation of Rated Cooling Performance, is not an integral part of the Standard and is an “informative” appendix for information and guidance only.

Bonaire has adopted an alternative method by which it calculates the performance of evaporative air conditioning systems than that provided in the Standard for information and guidance purposes, and recommends using the Bonres<sup>®</sup> Unit Selection Guide as the only reliable method of determining the cooling capacity of a Bonaire unit in your home.





The leaders in heating and cooling

### Office Locations

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Salisbury South Australia 5108  
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Dubbo NSW 2830  
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**Albury**  
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Lavington 02 6882 2733

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03 8795 2400

[bonaire.com.au](http://bonaire.com.au)

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*Your nearest Bonaire stockist is:-*

In the interest of continued product improvement, Bonaire reserves the right to alter specifications without notice.  
Wi-Fi is a registered trademark of Wi-Fi Alliance. E & OE. Colours represented are as accurate as the printing process will allow.  
Images used, are for illustration purposes only. For further information on warranty terms and conditions please refer to Bonaire's warranty information booklet.  
Domestic warranty only. Unit warranty for commercial applications varies depending on model.

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