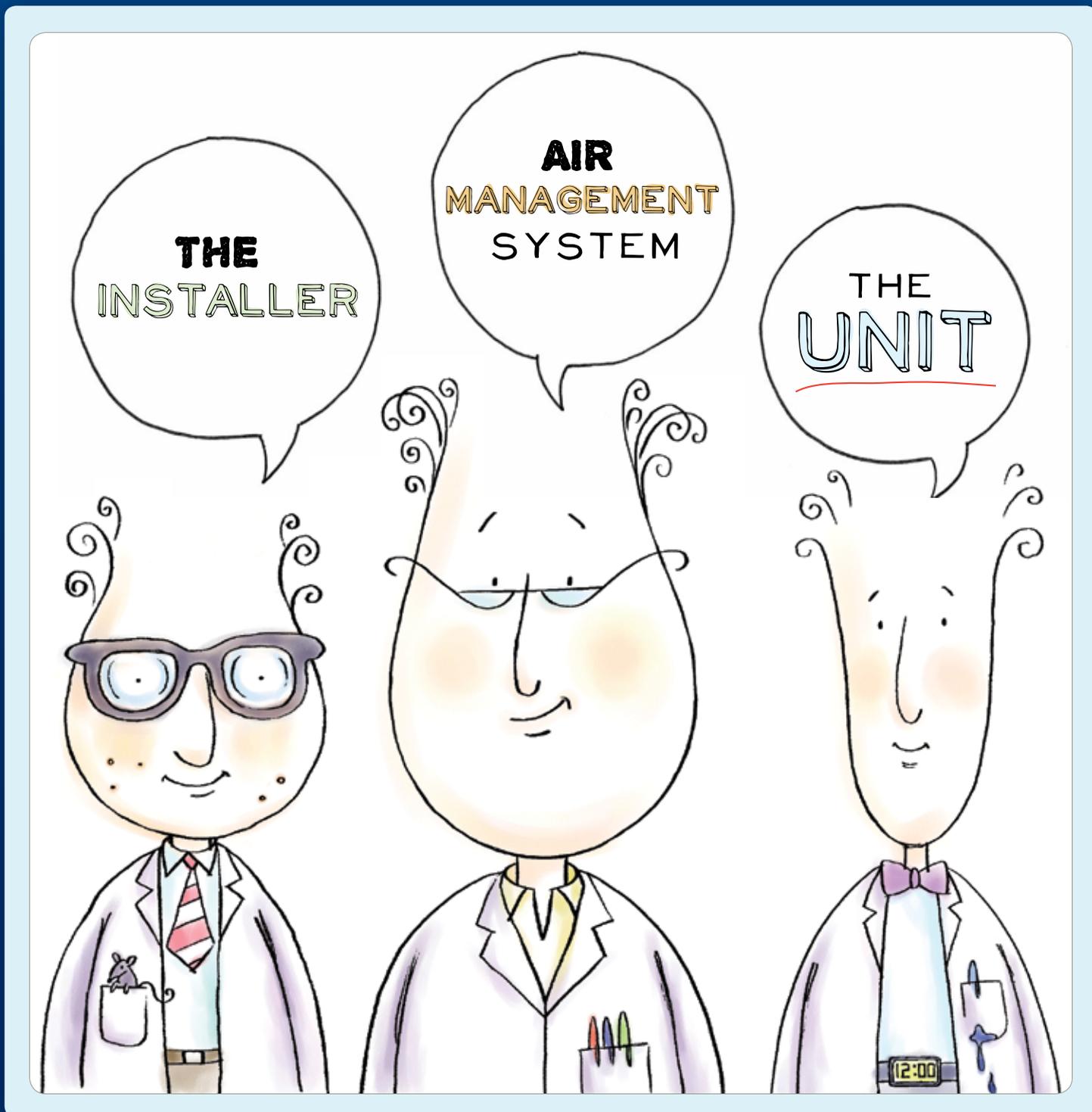
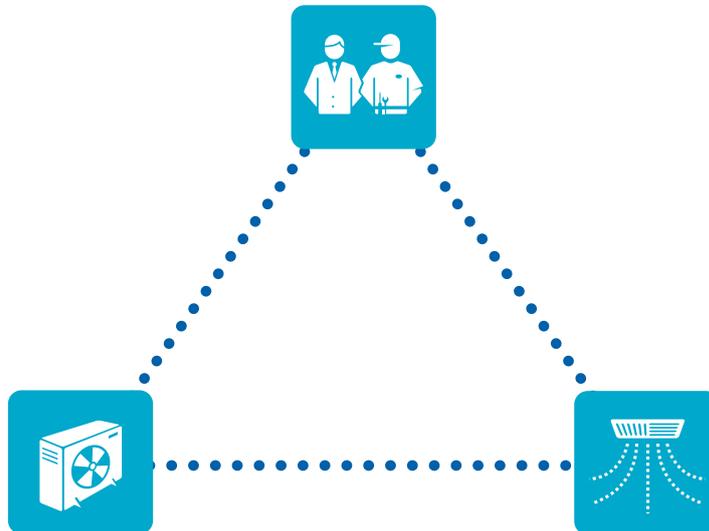


# An air head's guide to choosing the correct reverse cycle air-conditioning system for your home.



# There are three parts to the air-conditioning equation.



When most people think air-conditioning, they think about the outdoor unit or compressor. However this is just one part of the air-conditioning equation. Who installs the system and how the air is distributed around the house have a profound impact on comfort levels. Before you can make an informed decision you need to consider these three areas:

## 1. The Installation

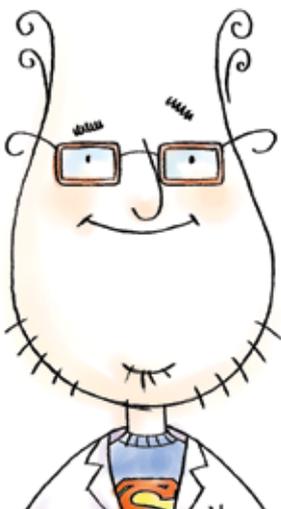
The air-conditioning specialist designs the system, decides how the ducting is laid out and where the air vents are placed. His skill in determining these factors directly affects the performance of your system.

## 2. The Unit

The compressor is the outdoor unit, and is connected to the fancoil unit, located in the ceiling space. That is the beginning of the cooling or heating process. The size of compressor that you need will be determined by the size of the house. Once again, you will need to rely on the experience of your air-conditioning specialist to recommend the most suitable compressor for your needs.

## 3. Air Management System

Once the air has been conditioned, the next step is to make sure the air gets to where it is needed. The air management system is located in the ceiling, and distributes the air throughout the ducting, relying on the quality of the zone dampers to control the precision with which the air is delivered. The control you have over which rooms receive air depends on how many zones the system has. Obviously more zones equals more control.



LOOK FOR AN AIR-CONDITIONING SPECIALIST THAT BREATHES AIR. AT LIVES AND

# Why is air management so important?

WHEN IT COMES TO **AIR FLOW**,  
BE A **CONTROL FREAK**.

How the air is managed and distributed around your home determines the efficiency of the system and how comfortable you feel. It is the precision and control of Advantage Air's air management system that sets it apart from other air-conditioning systems.



## Duct

Advantage Air's ducting meets all the requirements of the Australian Standards. See page 6.

## Exact Air Regulator

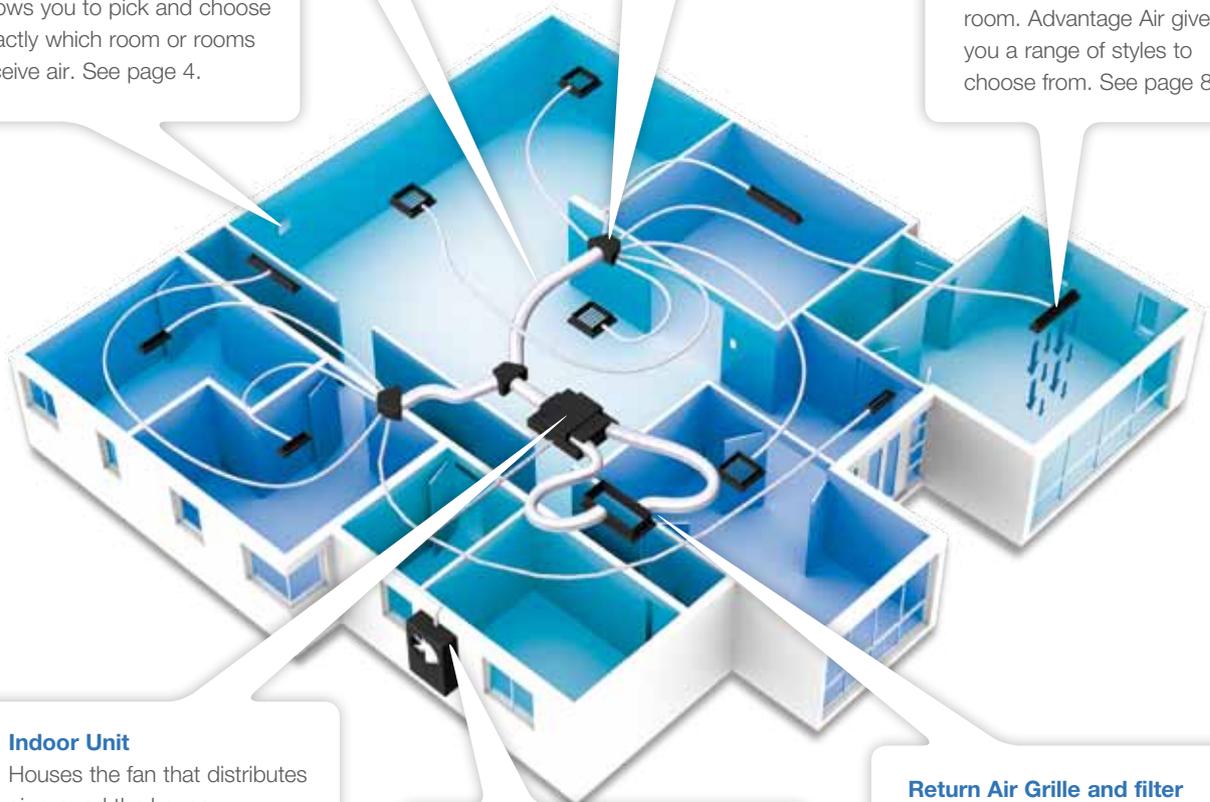
Advantage Air's award winning Exact Air Regulator utilises opposable blade damper technology for greater precision in controlling air-flow to the different zones. See page 5.

## Zone Control Panel

Allows you to pick and choose exactly which room or rooms receive air. See page 4.

## Diffuser

Where the air enters the room. Advantage Air gives you a range of styles to choose from. See page 8.



## Indoor Unit

Houses the fan that distributes air around the house.

## Outdoor unit or compressor

Your installer will recommend what size you need based on the size of your home.

## Return Air Grille and filter

Advantage Air's Purtech Filter provides 30% better filtration than ordinary filters, and comes as standard on Advantage Air systems. See page 7.

## Zones. What is zoning and why does it matter?

Because most of us don't use every room in our house simultaneously, air-conditioning installers divide homes into zones. Zoning allows you to switch the air-conditioning to that area on or off.

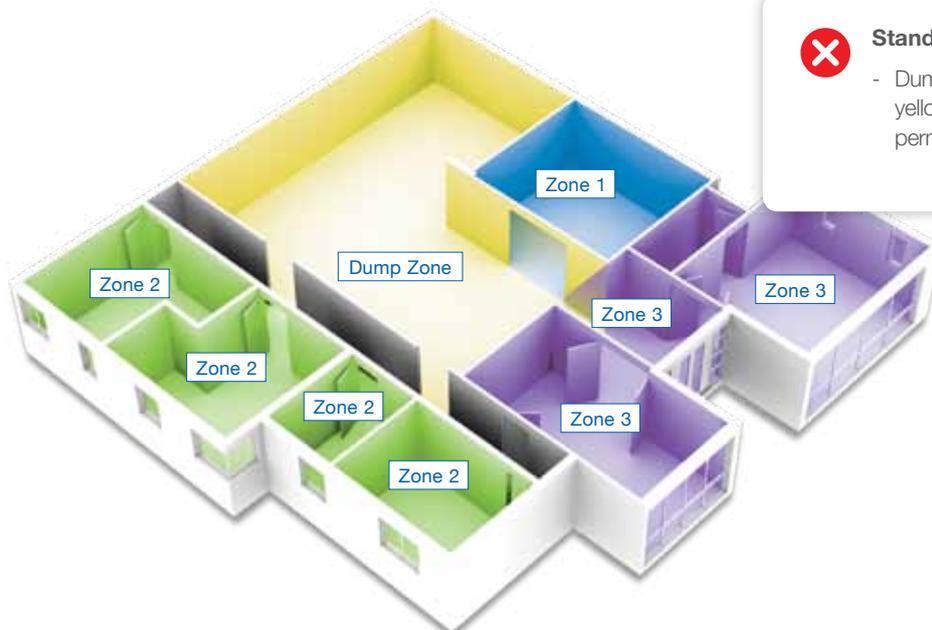
The compressor and fancoil unit operate independently of the zone control system, so there is a possibility that all the zones can be closed while the compressor and fancoil are still running, causing an excess of pressure in the ductwork.

Ordinary systems use a "dump zone" (also known as a constant zone) to overcome this problem, which is an area of the house that has no zone control to it, so that it cannot be closed at any time, and is always on when the compressor and fancoil are on. This area can be up to 25% of your home, which if you aren't using that area of your home, is wasteful and inefficient.

Advantage Air's zone systems overcome this problem, by incorporating electronic default constants, which

detect if too many zones are closed, and automatically open a pre-selected zone to relieve excess air only when needed, giving you a more efficient system.

All Advantage Air Zone systems have an option to have 2 controllers (e.g. upstairs/downstairs) and you can also upgrade to the Zone 10 system, which includes a touch screen and 24 hour 7 day scheduling to turn your zones on and off.



### Standard Systems:

- Dump zone (shown in yellow) must remain permanently open



- Pre-selected dump zones only open when needed

## Zone control. Total control at your fingertips.



### Standard Systems:

- Basic light switch panel
- No control over the dump zone



### Zone 10

- Intuitive touch screen
- Features up to 10 controlled zones
- Includes electronic default constants
- Also includes 7 day 24-hour scheduling of zones



### Zone Station

- Stylish control panel
- Capacity for up to 6 zones to be controlled
- Electronic default constants reduce energy wastage, and provide you with greater control over your system

ADVANTAGE AIR  
CONTROL PANELS  
PRESS ALL THE  
RIGHT BUTTONS .



## Exact Air Regulators and Dampers. The air traffic controller.

Advantage Air's award winning Exact Air Regulator's first function is to connect the ducts in the air conditioning system to each other, but their second function is the most important of all.

They are the air traffic controller of any system and incorporating "dampers" into their construction, they control how much air goes to which rooms. This can either be controlled by a zone motor from an Advantage Air zone system to turn a room or rooms on and off, or by a manual handle to form a manual damper. Manual dampers are used in reverse cycle systems to ensure the air is perfectly balanced between the rooms. The quality of the damper used

will have a profound effect on your comfort levels, so even though they're out of sight don't let them slip your mind when investigating systems.

Standard damper bodies have a circular internal section called a 'scoop' to increase or decrease the airflow. It is all very simple; perhaps a little too simple. This scoop is only one piece, and as the 'scoop' starts to close, it creates a great deal of resistance very quickly, making it hard to control the airflow precisely. The scoop is also commonly fastened with a nut that can, over the life of the system, loosen due to air pressure and render the damper useless.

Advantage Air, being complete control freaks, were never going to be satisfied with imprecise conventional dampers, so we invented our own; the Exact Air damper. Instead of a single 'scoop' the Exact Air has four Opposed Blade Dampers (OBD's). Think of them as a series of double doors that can open and close in precise increments, versus the 'scoop' that is like a large pivot door. When used as a manual damper, our OBD's have 21 different locked positions that will not move over time. The result is smoother, quieter, more even airflow that earned us an Australian Design Mark award for innovation.



### Standard Systems:

- Conventional dampers and internal 'scoop'
- Imprecise
- Break easily



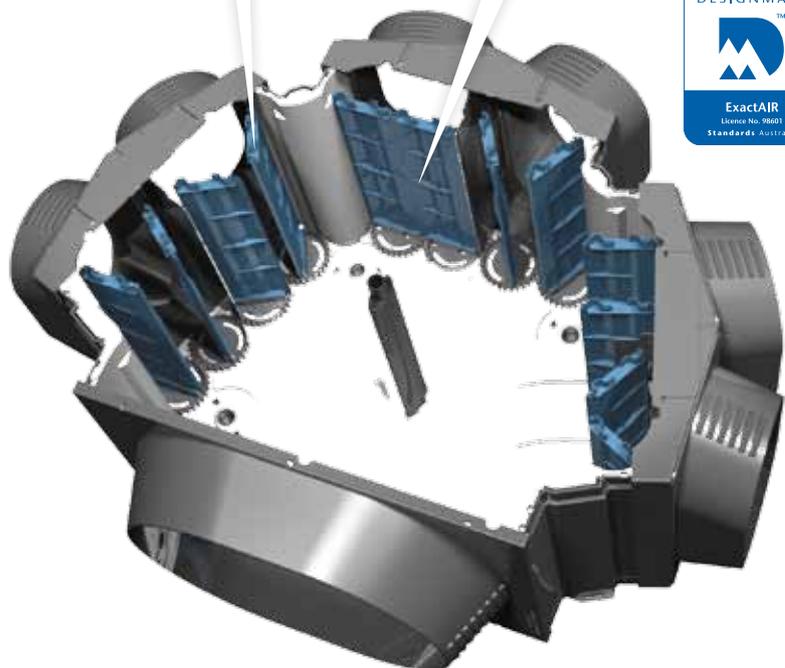
### The Exact Air features:

- Opposed Blade Dampers
- 21 different damper positions for precise control
- Durable
- Awarded the Australian Design Mark
- Covered by a 10-year warranty



Opposed Blade Dampers

21 different damper positions



## Ducts. Are they top of the class?

All ducting is not created equal. This is definitely one case where you want to aim for silver, not gold, as it offers greater heat reflection. Strength is also critical. Ask to see a sample and test how easily you can push your finger through the side. If it damages easily, insist on a very mellow installer who has had a good week!



### Advantage Air Duct features:

- A silver outer sleeve
- High density polyester insulation
- Stainless steel spring inner coil for shape retention
- Meets Australian strength, mould and temperature tests
- Meets Australian fire safety standards (AS4254)
- Covered by a 10-year warranty



Stainless steel spring inner coil for shape retention

High density polyester insulation

Silver outer sleeve



10  
YEAR  
WARRANTY

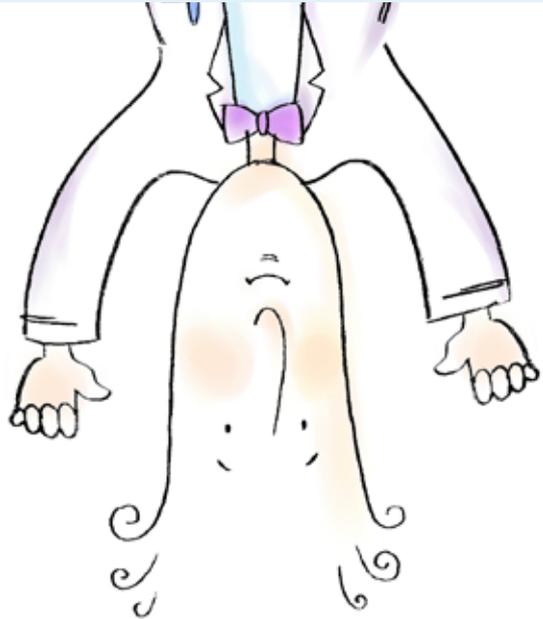
## Breathe easy with a superior filter.

The quality of an air filter directly impacts on the quality of the air you breathe. At Advantage Air, we've created a more efficient filter, which comes as standard with all Advantage Air systems.



### Standard Systems:

- Single layer filter provides less filtration
- Deteriorates over time with washing
- Should be washed twice a year



OUR AIR-FILTER REALLY  
**CLEANS UP.**



### Purtech Return Air Grille

- Multi-layer electrostatic filter produces up to 30% cleaner air
- Optional LED warning light reminds you to clean the filter
- One piece construction eliminates leaks
- High quality ABS plastic
- Elongated 'egg crate' core makes cleaning easier
- No visible mitred corners

# 30%

Cleaner Air

Multi-Layer  
Electrostatic  
Filter



## Diffuser Options. Advantage Air is all about choice.



### ✓ StreamLine Diffuser

- Adjustable blades sit flush with the ceiling - no ugly protruding blades
- 7-point setting system to diffuse cool air across the ceiling or hot air down into the room



### ✓ Silhouette Diffuser

- Ensures whisper quiet cooling to all corners of the room gently diffusing air across the room



### ✓ Linear Elite Diffuser

- Cutting edge design
- Can be used in conjunction with standard diffusers



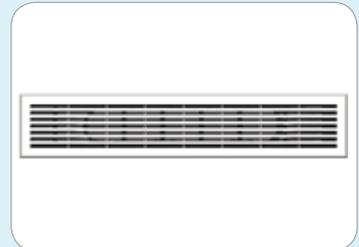
### ✓ Round Sunline Diffuser

- Air diffuses equally to all parts of the room
- Fits seamlessly into a modern interior with round light fittings and down lights, ensuring minimal visual impact



### ✓ Swivel Jet Diffuser (For small rooms or heating systems)

- Full swivel function for greater directional airflow
- Low profile design
- Removable centre for easy cleaning



### ✓ Small Linear Diffuser

- Ideal for wall applications

# Air-conditioning check list.

Before you decide on a system, make sure you have asked these questions.

	The Air Management System	Other Systems	Advantage Air System
	Does the ductwork meet all Australian Standards (AS1530 and AS4254)?		✓
	Are the ductwork and fittings covered by a full 10-year warranty?		✓
	Are the products Australian manufactured for Australian conditions?		✓
	Does the dump zone only open when needed?		✓
	Do the dampers have opposable blades for greater air delivery precision?		✓
	Does the filter come with a 10-year warranty?		✓
	Is the filter electrostatically charged to improve filtration?		✓
	Do you have a choice of air diffusers?		✓

	Energy Saving Checklist		Other Systems	Advantage Air System
	Zone Station	Electronic Constant - no 24/7 dumping zone		✓
	Zone 10	All rooms zoned - close all unused rooms		✓
	New Air	Uses nature's cooler air in the evenings		✓

# Contact Details

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## Peace of mind warranty

Our components are well known in the industry for their quality and precision as well as the extra features built in for additional strength and durability. To prove our confidence, Advantage Air provide a:

- 10-year warranty on all ducting componentary
- 5-year warranty on all electronic controls

Exclusion to warranty, 240v zone motors which are covered by a 1-year warranty.

## Corporate responsibility

Advantage Air is involved in a community project based in Port Elizabeth, South Africa which provides refuge for abandoned babies. The centre can accommodate up to 10 babies, accepts babies up to one year old and looks after them for an average of 2 months before they are adopted and placed with foster parents.

Registered Trademarks include:

'Advantage Air', 'Gen III', 'Airweb' and 'Streamline'.

