

Air Conditioning Comfort All Year Round

Air conditioning is the process of controlling air so as to simultaneously alter temperature, humidity, cleanliness and distribution to meet space and comfort requirements - much more than just cooling or heating the space you are living or working in.

Temperature Control

You can enjoy a perfect constant temperature because of the control of not only cooling but also heating.

Humidity Control

The room can be humidified or dehumidified to suit your comfort levels or working requirements.

Air Filtering, Cleaning and Purification

A room can be cleaned by filtering dust, pollen and particles from the air.

Air Circulation

Air which is cleaned and controlled in temperature and humidity is distributed throughout the available space. As a result, room air can be maintained evenly.

Reverse Cycle Airconditioning – How it Works

A 'reverse cycle' air conditioner is not just limited to cooling a room in the summer, it can keep you toasty warm in winter as well.

Equipped with a refrigeration circuit in which a fluid known as "refrigerant" circulates, during summer keeps you cool by absorbing heat in the room, then transporting it outdoors, leaving the indoor atmosphere cool and refreshed.

In winter the cooling cycle is simply reversed. In fact, even when the outdoor temperature is below 0°C, there are still 'calories' in the air. The refrigerant extracts this heat from outdoors and returns it to the room.



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Types of Air Conditioners

Room Air Conditioners

Generally installed in an existing Window or through an opening created in a Wall.

Models are available with cooling only or Reverse Cycle operation with both cooling and heating, with some models supplied with infra red remote control.

They can be a great solution for individual rooms, smaller areas able to be segregated and separate buildings such as sheds, granny flats, relocatable homes and working site sheds.

Air conditioners are becoming more and more compact and discreet. They integrate harmoniously into every decor: residential or professional. Units require minimum maintenance with a simple, regular filter clean all that is required.

Ducted Reverse Cycle Airconditioning Systems

Heatworks / Coolworks have a wide range to suit a variety of applications, budgets and installation requirements.

Ducted systems are quiet, unobtrusive and offer you year round comfort, with the benefit of being more compact than using separate cooling and heating systems.

Economical ducted reverse cycle air conditioning is up to three times more energy efficient than conventional heating.

Conditioned air is delivered to individual rooms through insulated ducting systems, usually installed in your roof cavity. Programming systems to create 'Zones' can allow you to turn on and off individual ceiling ducts in various rooms. For example, if you have a spare bedroom not being used, you can turn this one room's duct off, saving you power in running the airconditioning system and therefore of course money.

Advance programming features can be included allowing wall mounted or even remote control programming of your airconditioning system.

Split System Airconditioning

These types of airconditioning systems can be either wall, ceiling or floor mounted and generally have a lower noise level than a comparable Reverse Cycle Airconditioner. This can be achieved by isolating the higher noise output components of your airconditioning system outside of your house or office - well away from the main living or working areas.

They consist of 2 parts, an indoor and outdoor unit, interconnected with refrigerated piping and electrical wiring. Split Systems are available for most sized rooms and are unobtrusive.

Correct sizing and selection for your application is important, a specialist contractor such as Heatworks/Coolworks can ensure your air conditioner will do the job that is expected by you.

Inverter Technology

Inverter Advanced Technology Airconditioners are exceptionally economical to operate and quieter to run than conventional units.

They can handle greater extremes in temperature and are smoother and more stable in operation. They often reach the desired temperature more quickly than conventional airconditioners

The inverter component allows the outdoor unit to **vary its speed and output** to match the required capacity of the indoor unit, rather than running continuously at full power at all times. Thus the inverter model can achieve 30% more operating efficiency than conventional models saving you plenty on you electricity accounts.

They're a bit like putting your foot on the accelerator of a car – the harder you push, the more power you get and the more petrol you burn. With invert systems, if you don't need full power, perhaps just a bit of a cooling top-up, it has the technology to detect this and not power up to full capacity. Therefore, you still reach your desired temperature without 'burning as much fuel' – electricity!

Just one outdoor unit can power up to 4 indoor **sleek and quiet Wall Mounted** units simultaneously, yet it can remain highly efficient if you are operating at low power to drive only one of the indoor units.

Cassette Model Airconditioners

These are units that are installed in your ceiling and have the ability to drive conditioned air efficiently in up to 4 separate directions – some models also offer sweep pattern features to really circulate and move the air around.

Systems of this nature can be ideal in commercial situations, particularly restaurants, as they can be mounted inconspicuously in the ceiling in the middle of a relatively large room and cool or warm customers in all directions of the system.

They're low profile, quiet and offer auto timer operation features. Set your airconditioner to turn-on at predetermined times before you get home or open up your business to ensure your premises has reached optimum temperature before you, your family, staff or customers arrive.

Evaporative Ducted Airconditioning

Benefits of Evaporative Airconditioning is its ability to surround you with 100% fresh air as windows and doors can be left open. They are exceptionally economical to run and environmentally friendly, running at only a fraction of the cost of Refrigerative style airconditioning systems.

Upfront purchase prices are also lower than that of Refrigerative airconditioning systems, although evaporative does not offer heating functionality as well.

Evaporative is noted to be great for allergy or asthmatic sufferers, as the cool moist, fresh circulating air makes breathing easy.

The systems work by drawing outside air through a series of wet filter pads to cool the air through natural evaporation. Just like you feel cool standing next to a flowing waterfall, these airconditioners work on the same principle of removing heat from the fresh air as the air works its way through the cool moist pads.

The cool air is then distributed through an in-roof ducting system to the various rooms of your house and then expelled through open windows or doors around your house. To work most efficiently, it is imperative that a good airflow is maintained around the house.

Power consumption is restricted to running a fan in the roof top unit and a small amount of power to pump water through the cooling pads. Water usage is not high.

Although evaporative systems do not work as efficiently on high humidity days where the outside air is already carrying a high amount of moisture, for most South Australian hot summer days, evaporative systems can deliver beautiful, reliable, constant fresh cool air flow.

Modern evaporative airconditioning systems store water in a tank to be pumped up over the cooling pads while operating – however, when the quality of this water is sensed to be deteriorating or when the unit is turned off, the tank automatically empties completely. Stale water is NOT stored in these systems, ensuring you are always breathing fresh clean air without any risk of bacteria build up in the airconditioning system. When not in use they fully dry out.

Maintenance of the systems is quick and simple. It is suggested that the system be serviced annually to ensure all of the pads, tank and hoses are clean and dirt free at the start of a new seasons hot period. The cost of this service is a fraction of the extra power cost you could expend on running a refrigerative airconditioning system.

Models have numerous options to vary air distribution, timer programming and general operation from wall mounted controls through to remote control.



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FEATURES

Particle, Anti-bacterial and Deodorising filters

A range of options exist if it is important for you to also have your airconditioning system filter and clean the air it is circulating.

Anti-bacterial air purifiers filter out **Pollen, Mould, Household Dust and even Dust mites** – great for people with allergies or pet lovers and asthmatics.

Light-regenerated deodorising filters have the ability to remove **dirt and odours** in the air.

Sleep Mode

Some airconditioning models offer a 'sleep mode' at night time to adapt the temperature control and limit energy consumption while you are asleep. This technology still ensures you have a fantastic sleep, while ensuring your airconditioning system is not running at full operational power.

Customise the operation of your airconditioning system yourself to match your desired lifestyle timing and requirements.

Heatwaves are bad for us

Our bodies mobilise blood towards the skin during a heatwave, thus, muscles and the cardio-vascular system are less irrigated, leading to discomfort, tiredness and a marked slowdown in activity, notable in children, the elderly and people with illness.

Overall, heatwaves put our bodies and senses of humour under stress. An efficient airconditioning system helps reduce these pressures on your health, both physically and emotionally.

HEATWORKS COOLWORKS

INCORPORATING POYNER AIRCONDITIONING

www.heatworks.com.au - Adelaide, South Australia

Norwood Superstore ~~ Phone (08) 8362 3335

126 Magill Road
Norwood
South Australia 5067

Opening hours

Mon-Fri : 9am to 5.30pm
Saturday : 9am to 4pm
Sunday : Noon to 4pm

Prospect Showroom ~~ Phone (08) 8344 7377

407 Regency Road (cnr Prospect Rd)
Prospect
South Australia 5082

Opening hours

Mon-Fri : 9am to 5pm
Saturday : 9am to Noon

Lonsdale Showroom ~~ Phone (08) 8384 5066

Unit 3,
cnr Aldenhoven & Dyson Roads
Lonsdale
South Australia 5160

Opening hours

Mon-Fri : 9am to 5pm
Saturday : 9am to Noon

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