



LOWENERGYLIVING

Whole House Fan Natural Cooling Systems



Cool like the breeze...naturally

- 🌿 We are the experts offering the most powerful and the largest range of Whole House Fans in Australia for over 30 years.
- 🌿 The invisible and quiet, energy efficient alternative to air conditioning costing up to 90% less to run.
- 🌿 5 fan sizes available, to completely change the air in your entire home every 1 ½ - 2 minutes. Expelling 6,000 to 29,500 M3/hour of hot air
- 🌿 Enjoy healthy fresh air breezes through your house including the roof space for around 10 cents per hour.
- 🌿 Highest quality, manufactured in Australia and the USA and virtually maintenance free.

How it Works

The heart of the cooling system is the large, in-roof fan. Windows in the rooms you wish to cool are opened.

You switch on the fan which immediately creates a powerful updraught and opens the air actuated ceiling shutter.

Fresh air is drawn in to replace hot, stale air which is pulled through the house towards the fan, up through the ceiling shutter and into the roof space.

Air in the roof space is pressurised and flushed outside via eave or gable vents or through whirly birds if they are in situ.

You can direct the breezes simply by opening some windows and doors and closing others.

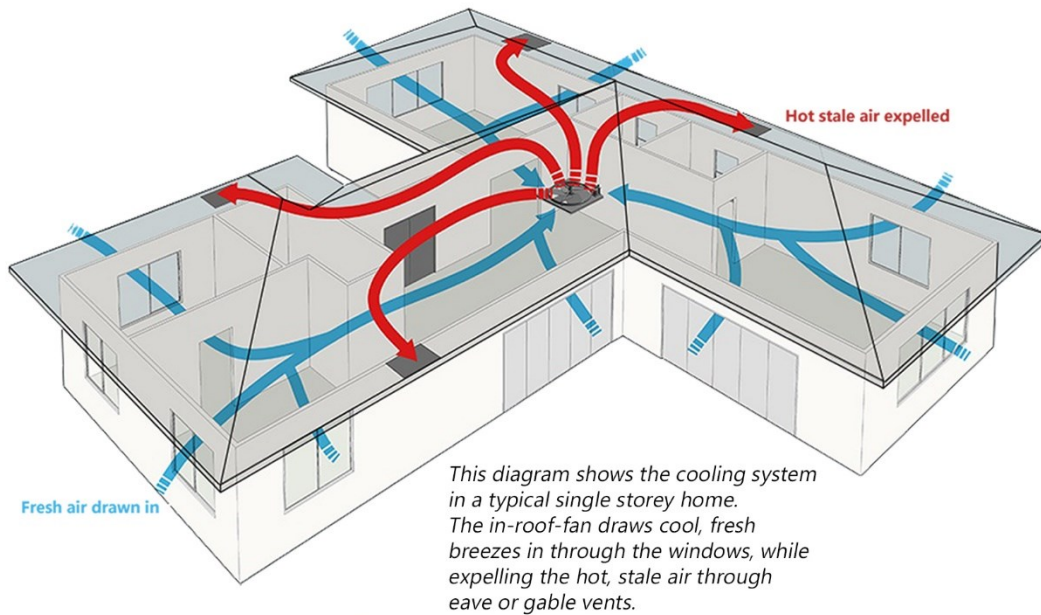
So, you get more concentrated air flow where you need it most, such as through living areas by day and bedrooms at night.

How does the cooling system work without cool air?

Unlike air conditioning that works harder as your home gets hotter, our cooling system removes hot air before it builds up.

Cooling fresh air moves over your skin causing moisture to evaporate to cool you naturally. Just like being outside on a breezy day. This sensation is called windchill and is the principle that all fans work on.

With our system your home is always as cool as the night air, with the additional cooling that you feel with the gentle air movement on your skin to enjoy a comfortable night's sleep.



What about Heatwave Days?

Even air conditioning systems struggle during heat wave conditions and we do not pretend that we can maintain comfort at these levels with the house open and the hot air being drawn through it.

With the Cooling System you always start each day with a "bank" of beautifully cool air inside your home. It is recommended to close up windows and doors and shade windows on the hottest side of the house to conserve the cool air within.

You can also switch the system on low speed and open windows on the shady side of the house as close to the shutter as possible. This will prevent the build-up of furnace-like heat in the roof which can be as high as 60 °C -70 °C.

Meanwhile the air in the closed off rooms is undisturbed and once the outside air temperature has dropped, you can open up more windows, switch the fan on high and bring in the cooler air. If you have air conditioning already installed this is one of the times in summer you may need to use it, but only for a few hours instead of the whole summer.

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“It should become the preferred way of controlling summer temperature in Australian buildings.”

“Our fan was installed 29 years ago and remains one of the best pieces of equipment we have ever invested in...”

There are very few days when we ever find it necessary to run the A/C and when we do, it is only during the hottest of days during heat wave conditions.”

“My wife and I were delighted with the results, and since then have installed the fan in our two subsequent homes.”

“We love the feeling of breathing in fresh air and it is so much healthier than being cooped up in a home breathing in stale air from an air conditioner...”

...The fan has paid for itself many, many times over in cost saving and there is no maintenance involved.”

The Healthy Alternative

The system is the healthy choice as fresh air is drawn in and hot stale air, including many hundreds of pollutants are expelled. Whereas, with air conditioning the air is constantly recirculated.

Indoor air carries toxic fumes and irritants from cleaning fluids, synthetic building materials, furnishings, dust mites, pet dander, cooking odours, moisture and mould spores which can trigger allergic conditions, such as asthma, a condition now affecting 1 in 9 Australians.

Studies have shown that the air inside our homes can be more polluted than the air in our city streets. With our system all these pollutants are whisked away with the heat, before they build up to toxic levels.



We can offer a natural, energy efficient cooling solution for many applications such as homes, community centres, schools, churches, industrial buildings and more.



Whole House Fan Cooling System showing the ceiling shutter installed in the central stairwell of a two storey home.

Why is the System so Quiet?

You'll never lose sleep because of the heat or from the sound of our cooling system. Our belt drive fans are constructed to be some of the quietest in the industry. Unlike direct drive fans, such as bathroom extractor fans which produce a constant hum, our motors are totally silent.

The only noise you hear is the soft diffused sound of air moving through the fan blades. The majority of our fans are six bladed which produce far less air turbulence than a four-bladed fan. Also, each blade is uniquely sculptured with static balancing ensuring maximum air flow with minimum wind sound.

For quieter operation the fan has sealed shaft bearings, a timber frame which is rubber mounted and is elevated on a plenum high into the roof and the shutters are fitted with plastic pivot pins.

The noise level of the fan is rated to 42 decibels being the sound level of soft background music, a level approved for environments such as classrooms and libraries.

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- The fan and the shutter are manufactured by the largest supplier of air movement products in America and the other quality parts are made in Australia where the system is assembled to the highest standards.
- Our motors are extremely energy efficient and of the highest quality, designed in Australia by the industry's most respected supplier of fractional horsepower motors for more than a century.
- The ceiling shutters feature a heavy duty extruded aluminium frame and louvers, which are precision balanced and the white enamel finish blends in with any décor.

- Most of our fans use a cost saving variable speed controller so you can easily adjust the air flow according to your comfort level.
- For longer life the fan is constructed using heavy gauge welded steel, with a baked power coat finish, sealed ball bearings and our exclusive patented automatic belt tensioning extends motor life and eliminates the need for manual belt adjusting.
- Combine our cooling system with one of our radiant heating options for an energy efficient alternative to reserve cycle air conditioning. Always remember... simple beats complicated.



Fully assembled Whole House Fan, Ceiling Shutter and Motor



Ceiling Shutter

Fan Frame Dimensions (mm)				Ceiling Shutter Dimensions (mm)				
Diameter	Height	Length	Width	Internal			External	
				Diameter	Length	Width	Length	Width
600	381	762	762	600	775	545	810	610
760	381	864	864	760	762	838	813	889
915	381	1016	1016	915	762	1050	815	1095
1070	381	1169	1169	1070	907	1189	970	1245
1220	381	1372	1372	1220	1422	915	1473	965

Fan Diameter	Motor Specifications	Fan Speed (RPM)			Total Air Movement M ³ /Hour		
		High	Medium	Low	High	Medium	Low
600	250-Watt Variable Speed	475	Variable	450	6000	Variable	Speed
760	250-Watt Variable Speed	370	Variable	310	10200	Variable	Speed
915	250-Watt Variable Speed	357	Variable	224	17500	Variable	Speed
1070	250-Watt Variable Speed	290	Variable	150	24500	Variable	Speed
1220	370-Watt Three Speed	294	265	235	29500	27200	23400

Control Switch:

- 600mm, 760mm, 915mm and 1070mm Fans – 250 Watt, 1 Amp Controller
- 1220mm fan – 370 Watt 1.5 Amp Three Speed Controller

NB: 1). 600mm fan is four-bladed 2). No cut joist shutter on all models apart from 1220mm

Installation

The cooling system is normally installed in less than a day by one of our qualified, fully experienced contractors.

A comprehensive installation manual is provided with each fan kit. So, you can install the system yourself as long as a licenced electrician wires the electrical components according to State Codes.

Warranty

1. Shephard Constructions PTY Ltd hereafter called "The Company" warrants the fan blades, metal mounting frame, timber plenum and ceiling shutter to be free from any defects in material or workmanship for a period of three (3) years from date of purchase.
2. The Company warrants the motor, belt and control switch to be free from defects in materials or workmanship for a period of one (1) year from date of purchase.

(Full warranty details are set out in the installation and operating instructions included with every Unit).

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Telephone: (02) 99430650
Website: www.lowenergyliving.com.au
Email: info@lowenergyliving.com.au

Shephard Constructions PTY LTD
ABN: 25 068 818 379

Available From: