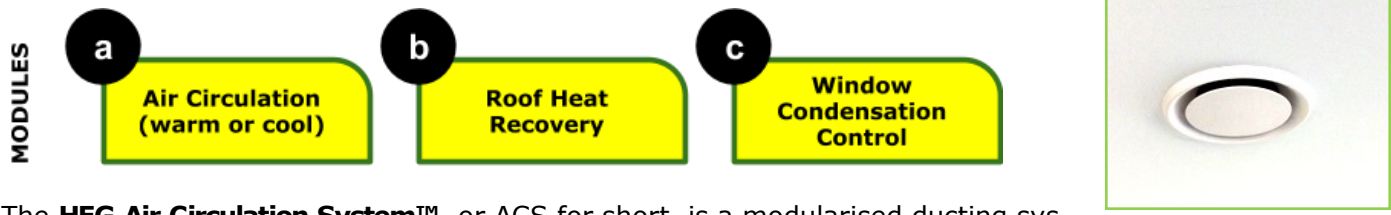
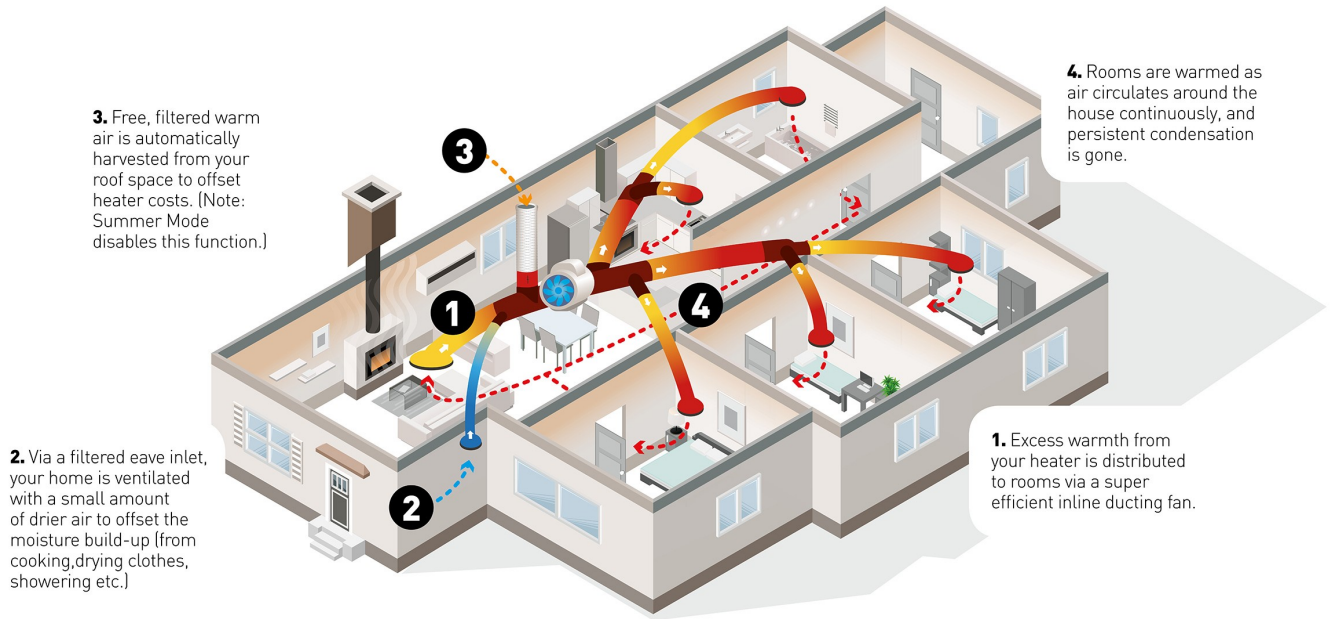


PRODUCT OVERVIEW

HEG Air Circulation System™



The **HEG Air Circulation System™**, or ACS for short, is a modularised ducting system that performs a wide range of complementary functions depending on which modules are installed. Its aim is to improve home comfort levels & air quality whilst lowering energy costs. HEG has 12+ staff, so you can be assured of expert advice, professional installation, an effective product that is guaranteed to eradicate persistent window condensation (or simply warm up rooms) and responsive post-sale support.



Household Issue	Module(s) utilised	Method to resolve issue
High power consumption	Air Circulation Roof Heat Recovery Module	Distributing heat to bedrooms allows expensive secondary heaters to be turned off. Free solar gain in the roof space is harvested and used to pre-heat the home, reducing the need for traditional heaters.
Window condensation	Condensation Control Module	This module utilises ventilation and existing heat to eradicate persistent window condensation in homes.
Black mould and/or damp, musty smells	Condensation Control	If persistent window condensation is eradicated, then mould colonies cannot be sustained, and drier materials can't release "damp smells".
Poor air quality & poor nasal or respiratory health	Condensation Control Air Circulation	There is less mould spores and dust mites in a drier environment, which improves air quality & reduces respiratory inflammation & reactions. Balanced air temperatures throughout the home leads to less respiratory irritation.

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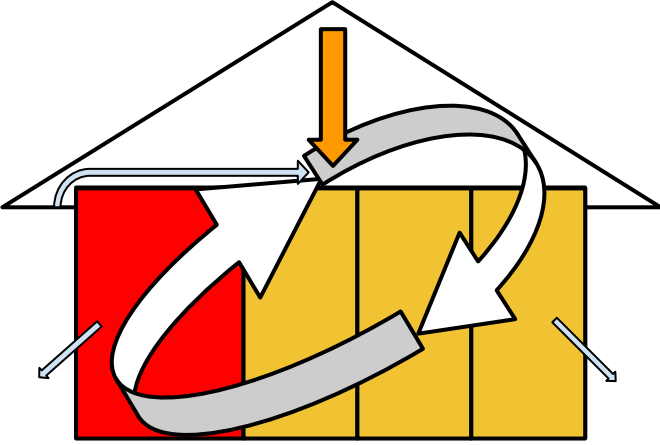
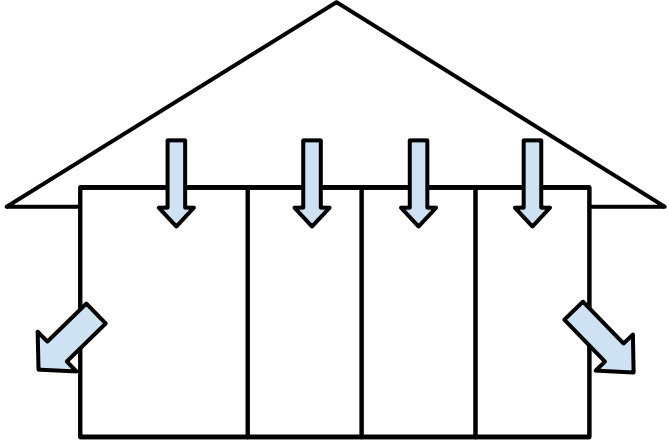


Comfort, Energy Savings & Air Quality
HOME EFFICIENCY GROUP

COMPETITOR COMPARISON

HEG Air Circulation System™

HEG guarantees that we will eradicate troublesome, persistent window condensation in your home (usually within 24 hours). There are some key differences between typical or traditional Window Condensation Control Solutions and ours, which we have highlighted in the table, below.

HEG Air Circulation System™ (with Window Condensation Control Module)	HRV or "Warm n Dry" (by Pellet Fires Tas) Positive Pressure Systems
	
<p>The HEG Air Circulation System:</p> <ol style="list-style-type: none"> 1. Circulates air around the house 2. Ventilates the air using a small trickle of fresh air, approx 1.5% of total air flow. 3. Recovers free solar gain heat from your roof space only when it is warm enough. 	<p>The HRV or PFT "Warm n Dry" systems:</p> <ol style="list-style-type: none"> 1. Ventilates the house using 100% of roof cavity air i.e. no circulation. <p><i>100% of external air is used in the case of a solar ventilation panel being used on a skillion roof.</i></p>

To highlight the main differences between the HEG Air Circulation System (with Window Condensation Control Module) and the Positive Pressure Systems (PPS):

- ◆ The PPS's **do not** circulate warm air from your living room to bedrooms. This wastes heat, and means that heaters in bedrooms will still need to be used, typically, and heaters left on overnight will need to work harder.
- ◆ 100% of the air in a pure PPS comes from your roofspace or from outside (depending on the version) even when it is cold. When a minimum temperature is reached with most PPS's, they auto cut out, which means that no ventilation is entering the house from their system.
- ◆ A PPS will typically obtain air from a roof cavity even when a bathroom, toilet, kitchen and laundry exhausts moist air into the same roof cavity. When your home has a separate roof condensation issue, HEG finds it more effective to obtain air from outside - a drier air source.
- ◆ A PPS should not be relied upon for increasing the average temperature of your home, according to the University of Otago study of 2011 (commissioned by the NZ Energy Efficiency and Conservation Authority, EECA), which recommended "positive pressure mechanical ventilation systems should not be promoted and marketed on their heating and/or cooling potential."



Characteristic	HEG Air Circulation System	HRV / Warm 'n' Dry
Circulates warm or cool air	YES	NO
Compatible with heat pumps and/or wood heaters	YES	n/a (can't circulate air)
Effective at providing heat	YES	NO (see NZ Uni study, above)
Bypasses damp air in roof cavity	YES	NO
Roof heat recovery feature shuts off when it is no longer warm in the roof	YES	NO (whole system shuts off when a min temp is reached)