



# SmartVent

the expert's choice

## HOME VENTILATION SYSTEMS



## Product Selection

The homeowners' guide to a healthier home

### *Help Us Protect Our Environment*

Please note that all SmartVent packaging bearing this  symbol is made from recyclable and/or reusable New Zealand materials.

Recycle yourself, or, by returning all your SmartVent product packaging to your source of supply, we can then reuse, or recycle to reuse, those items and together we will be doing our small part to help achieve a sustainable living environment for us to enjoy today

 you return  we collect  we reuse

## Why Ventilate?

Over a year a family can produce as much as 3,500 litres of moisture in the air inside their home and damp homes are much harder to heat than dry ones.



Ventilating our homes creates and maintains the air quality we need to ensure that a healthy indoor living environment exists every day.

Many of us are not aware that the well-intentioned energy efficiencies we introduce to our homes often negatively affect the air quality which can then compromise our health. In winter, the issue of poor air quality is compounded further in the simple act of taking every possible measure to retain the precious heat we generate in an effort to keep the cold at bay.

Insulation solutions make homes easier to heat, however, this can affect the good ventilation essential for better air quality, no matter what the age of your home.

In our New Zealand climate, poor ventilation can create the perfect environment for the ever-present moisture in the air to not just exist, but to then expose itself as the unwanted condensation, mould, mildew, proliferation of dust mites and other airborne nasties that can all damage your home and your health. Indeed, as international research shows, being in a room with fresh air diluting airborne particles can reduce the transmission of undesirable airborne viruses by over 70%.

Employing an active approach to ventilation, which uses a controlled process to continuously regulate and distribute clean, filtered air throughout your home, increases the positive benefits of good indoor air quality, to assist protecting the health and wellbeing of your family.

Almost a third of all rental homes have been found to feel damp.

## Why Smartvent?



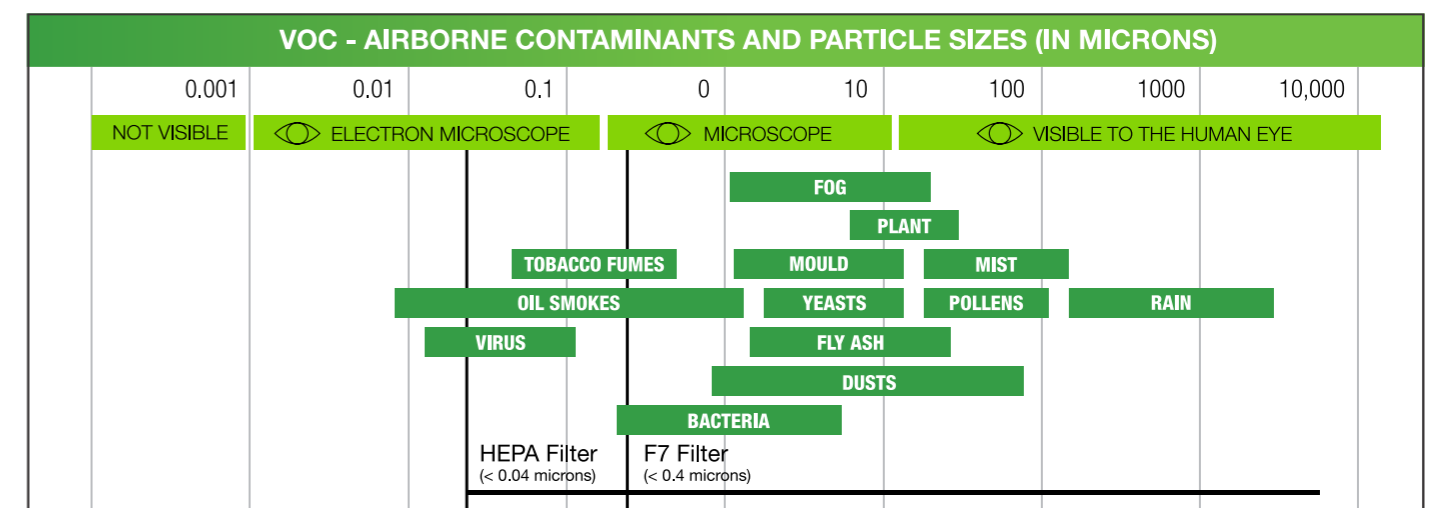
SmartVent is proudly owned by Simx, a business unit of the Volution Group. As a leading international designer and manufacturer of energy-efficient, indoor air quality solutions, Volution Group is committed to providing healthy air, sustainably.

An efficient home ventilation system may well be just a low-cost product that keeps moisture build-up at bay. An effective system, however, is an investment that delivers on the quality of life promise we now expect, as the minimum, for in-home comfort. SmartVent offers a wide range of home ventilation solutions with systems designed to best suit the specific needs of any home today.

With up to 69% of your lifetime spent in your home, a comfortable and healthy living environment is the least you should expect.

### Filters

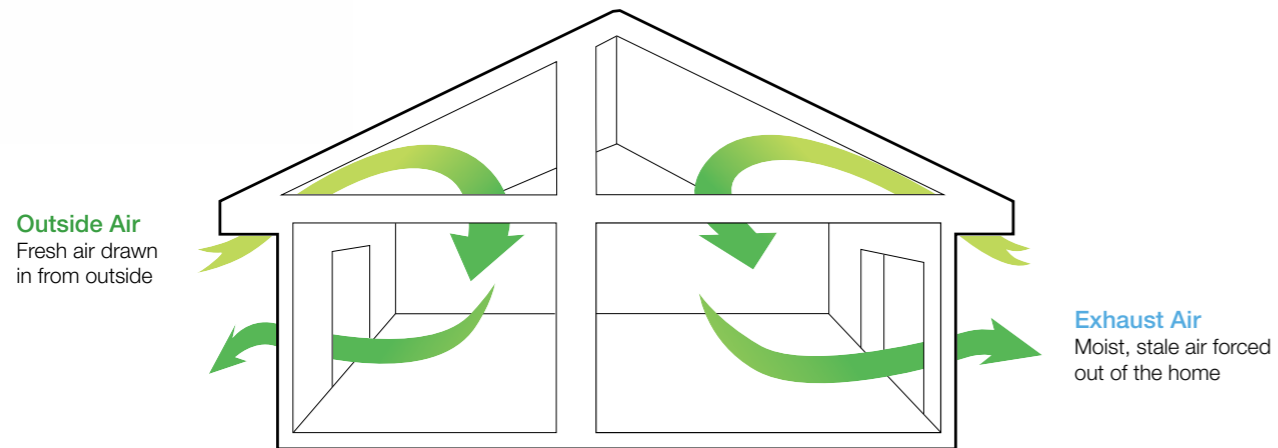
The filter is an important component of a ventilation system if it is to contribute towards a better indoor environment. On average, we breathe in 20-30kg of air every day, so it is essential that the atmospheric particles that can adversely affect our health, are effectively, and efficiently, filtered out.



All centralised SmartVent systems feature high grade F7 filters that capture up to 90% of 0.4 microns particles such as fine pollens, dusts and allergen from the air making the air cleaner to breathe. High quality HEPA filters are also available for asthma and allergy sufferers.

# Positive Pressure Systems

*Like a cold drink on a hot day, moisture will form when the temperature of the air drops when it contacts colder glass surfaces. We refer to the warm air reaching dew point as condensation.*



## better air = better health

Positive pressure systems draw in fresh air from the roof cavity and filters it before distributing the clean air into, and around, your home via a network of ceiling diffusers. The air movement created forces the moist, stale air that causes condensation, mould and mildew out.

In winter, good air circulation and home heating are essential for maintaining air quality. A home ventilation system from SmartVent reduces the excess damp, moisture-filled air and improves the overall air quality inside the house, making it much healthier for you and your family. A good investment for the well-being of your family and the overall health of your home.

## Seasonal Add-Ons

SmartVent Evolve2, Positive+, Positive2 systems can be further enhanced with the addition of any of the following seasonal add-ons. Heat Transfer and Tempering Heater operations can be scheduled to maximise convenience.

### Summer Feature

During warmer months, outside air can be used as the primary air source for the system, instead of the roof cavity. Keep bugs and pollens out overnight and bring a fresh filtered breeze in when you need it most.

### Heat Transfer

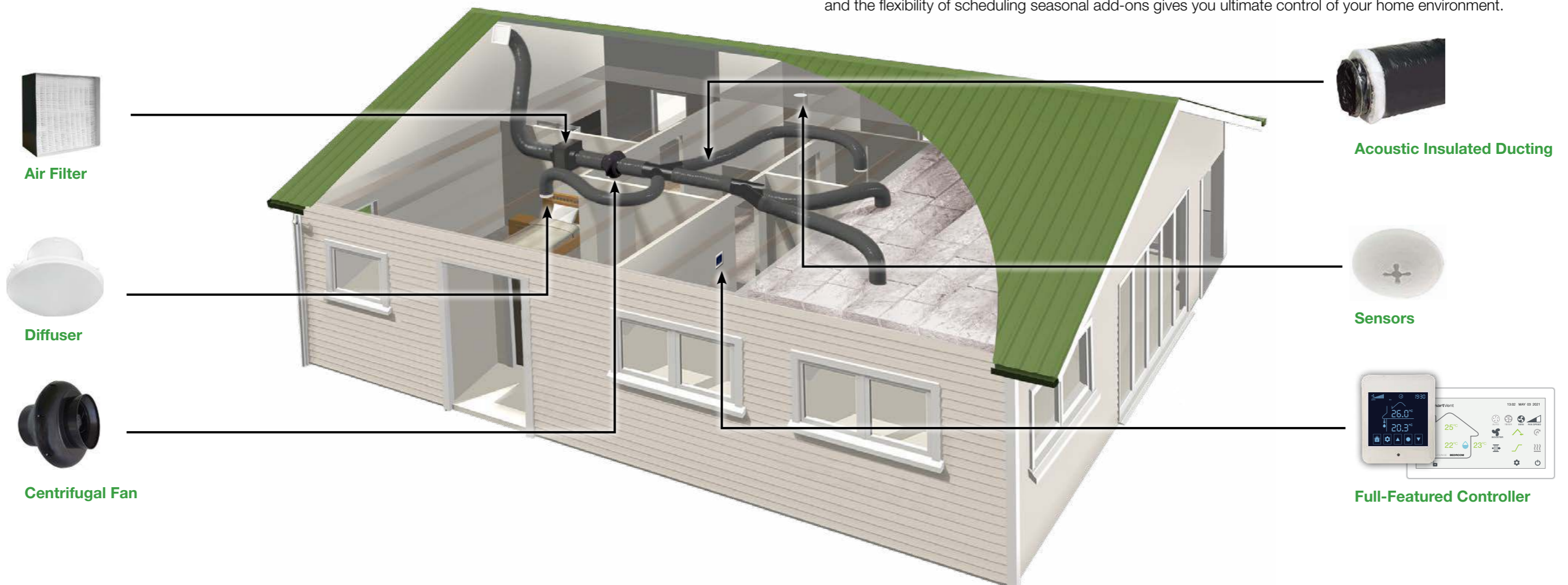
During cooler months, excess heat from your heated lounge can be transferred to your bedrooms. The recycle function is a bonus feature which allows inside air to be recirculated when outside temperatures are still a bit too cool.

### Tempering Heater

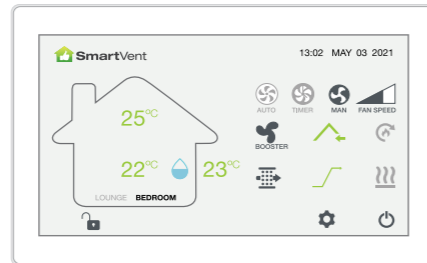
When it's cold outside and you want to take the chill off the incoming air, a 1 or 2kW tempering heater allows you to make the most of the driest air available.

## System Components

SmartVent positive pressure solutions include a range of control options, backed up by quality components. System operation is, primarily, set-and-forget. Simply enter your preferred temperature and the system does the rest. Depending on the model that suits your lifestyle and budget, sensing temperature alone, or temperature and the amount of moisture present, with or without seasonal add-ons, there is a SmartVent system for you. Your fully automated, smart wall controller determines the amount of air required to ventilate your home while temperatures and moisture conditions change throughout the day and night. All systems can be manually operated if you want more control, and the flexibility of scheduling seasonal add-ons gives you ultimate control of your home environment.



# Positive Pressure Systems



## Control Your Climate

Comprehensive humidity control protection against moisture, mould and mildew with multiple seasonal add-on options



## Condensation Control Plus

Integral humidity guard against moisture, mould and mildew with multiple seasonal add-on options



## Control Condensation

Reduce moisture, mould and mildew with multiple seasonal add-on options



## Investment Protection Plus

Cost effective solution including an integral humidity guard against moisture, mould and mildew



## Protect Your Investment

Cost effective solution to reduce moisture, mould and mildew

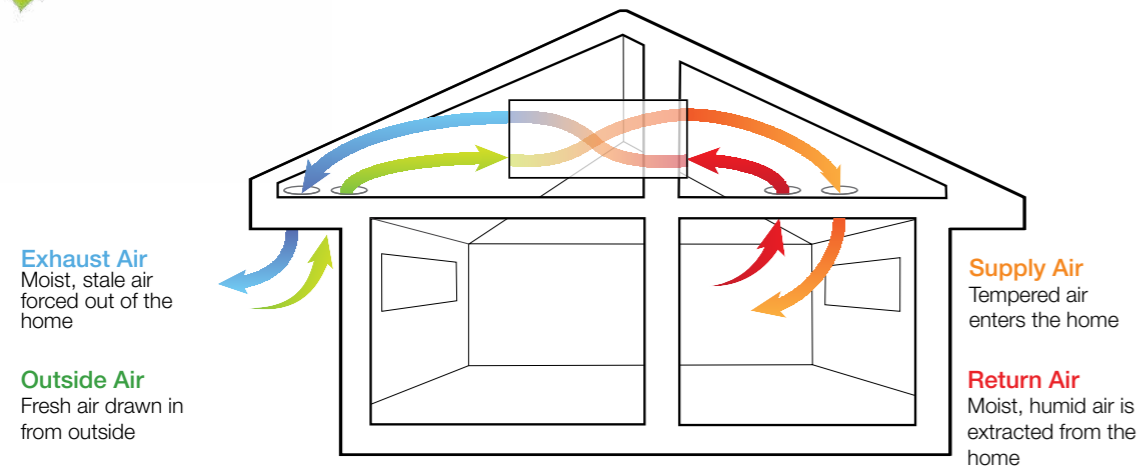
Systems	Evolve2	Positive+	Positive2	Lite+	Lite2
1 Room		SV01P+	SV01P2	SV01L+	SV01L2
2 Room (expandable to 3 room)	SV02E2	SV02P+	SV02P2	SV02L+	SV02L2
4 Room (expandable to 6 room)	SV04E2	SV04P+	SV04P2	SV04L+	SV04L2
6 Room (expandable to 12 room)	SV06E2	SV06P+	SV06P2	SV06L+	SV06L2

Features	Evolve2	Positive+	Positive2	Lite+	Lite2
Dew Point Control					
Humidity Sensing					
Temperature Sensing					
Low Temperature Protection					
Auto or Manual Operation					
Rental Property Lock					
Boost Control					
Filter Change Alert					
Screen Brightness Control					
Scheduler					

Seasonal Add-Ons	Evolve2	Positive+	Positive2	Lite+	Lite2
Summer Feature					
Heat Transfer					
Tempering Heater					

# Heat & Energy Recovery Systems

Modern homes are significantly more airtight than older homes, meaning moisture build up is more likely to happen ... and faster



## better air = better health

Heat recovery systems recover heat or cooling energy from extracted room air and also heat energy from moist air areas such as bathrooms, while energy recovery systems recover the heat or cooling energy from extracted room air only. Both systems draw fresh air into the home primarily from outside while simultaneously extracting moisture-laden, stale air from inside the home. This simultaneous process is referred to as a balanced system.

Being balanced, the systems are able to use the warmth of the extracted air to temper the clean incoming air as the two airflows pass by each other without the clean incoming air being polluted. The clean air is then distributed in, and around, the home via ceiling diffusers, giving your home a breath of fresh air and more comfortable indoor living conditions.

In winter, it is just so much more important that ventilation systems not only perform their basic function of extracting moist, stale air, but do it in such a way that complements the costly efforts made to warm the home in the first place. A home is not going to remain comfortable and cosy if the "efficient, low cost" ventilation option just brings in a constant flow of cold air from the outside. System performances are best measured by the efficiency of the core. Synergy2 models, with a cross-flow core, deliver up to 75% efficiency. Balance models, with a counterflow core, deliver up to 90%.

## Seasonal Add-Ons

SmartVent Synergy2 systems can be further enhanced with the addition of any of the following seasonal add-ons. Heat Transfer and Tempering Heater operations can also be scheduled to maximise convenience.

### Second Air Source

While standard heat/energy recovery solutions draw air directly from outside, a second air source kit allows air to be drawn from either outside or the roof cavity, allowing you to take advantage of any solar gain, automatically.

### Heat Transfer

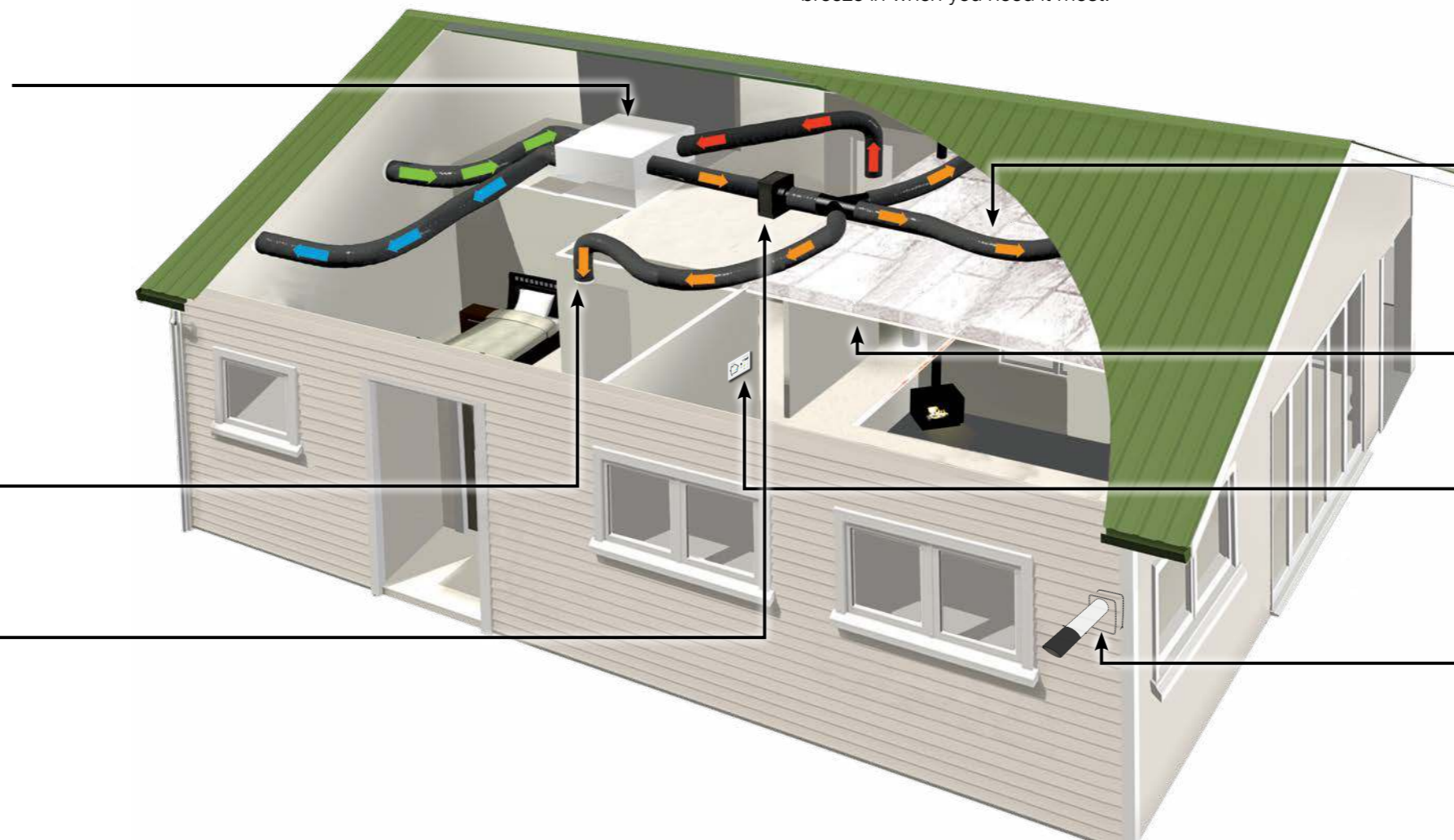
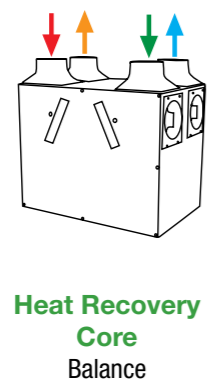
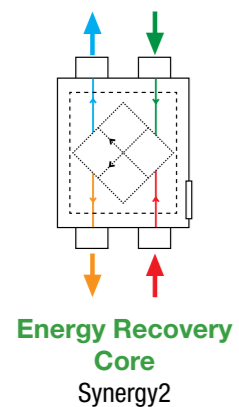
During cooler months, excess heat from your heated lounge can be easily transferred to your bedrooms. The recycle feature is a bonus as it can be used to recirculate inside air when the outside temperature is still a bit too cool.

### Tempering Heater

When it's cold outside and you want to take the chill off the incoming air, a 1 or 2kW tempering heater allows you to make the most of the driest air available.

## System Components

SmartVent heat and energy recovery solutions deliver filtered fresh air into your home, via an energy or heat recovery core combined with powerful centrifugal fans. System operation is, primarily, set-and-forget. Simply enter your preferred temperature in the home and the system does the rest. Depending on the model that suits your lifestyle and budget, sensing temperature alone, or temperature and the amount of moisture present, with or without seasonal add-ons, there is a SmartVent system for you. Your fully automated, smart wall controller determines the amount of air required to ventilate your home while temperatures and moisture conditions change throughout the day and night. All systems can be manually operated if you want more control, and the flexibility of scheduling seasonal add-ons gives you ultimate control of your home environment. The Balance and Tempra deliver the latest in energy efficient EC fan technology. SmartVent Balance systems include a core bypass to allow outdoor air to be introduced, in warmer months, without being tempered by the hot outgoing air as would normally be the case. Keep bugs and pollens out overnight and bring a fresh filtered breeze in when you need it most.



**Acoustic Insulated Ducting**



**Sensors**

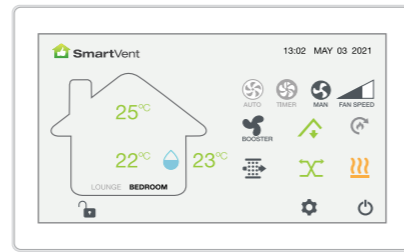


**Full-Featured Controller**



**Compact Heat Exchanger**

# Heat & Energy Recovery Systems



## Control Indoor Climate

Reduce moisture, mould and mildew with multiple seasonal add-on options



## Control Condensation

Reduce moisture, mould and mildew while maximising energy efficiency



## Ventilate Your Room

Single room heat recovery

Systems	Synergy2			Balance		Tempra
1 Room IN / 1 Room OUT						<b>Tempra</b>
3 Room IN / 1 Room OUT (expandable)	<b>SYN1015E2</b>	<b>SYN2025E2</b>	<b>SYN3035E2</b>		<b>BAL225</b>	
5 Room IN / 2 Room OUT (expandable)				<b>BAL405</b>		

Features	Synergy2			Balance		Tempra
Dew Point Control						
Humidity Sensing						
Temperature Sensing						
Low Temperature Protection						
Auto or Manual Operation						
Core Efficiency		up to <b>75%</b>		up to <b>90%</b>		up to <b>80%</b>
Core Bypass						
Boost Control						
Filter Change Alert						
Screen Brightness Control						
Trickle Ventilation						
Scheduler						

Seasonal Add-Ons	Synergy2			Balance		Tempra
Flexible Air Source - Roof Cavity						
Heat Transfer						
Tempering Heater						

# THE CLIMATE EXPERTS

## Customer Service

SmartVent has a dedicated customer service team who can offer advice on a wide range of ventilation systems and options for your home. Call our team to book a free in-home assessment.

## In-Home Consultation

A SmartVent accredited installer can visit you to assess your ventilation needs and specify a SmartVent system designed to create a healthy, comfortable and energy efficient home for you and your family. Consultations are provided free of charge and without obligation.

## Planning Services

If you are building or renovating your home then send your house plans for a recommendation on the optimum system layout for your home.

## Accredited Installers

SmartVent Accredited Installers are fully qualified electricians. As knowledgeable SmartVent specialists they will install your system to the highest standards, assuring a quality installation.



All SmartVent systems are backed by a 5-year warranty (excluding filters).



Eco-Friendly  
Recyclable Reusable  
New Zealand Product

We are company committed to our sustainability pledge. Please recycle this brochure when you have finished with it, or, better still, pass it on to your friends, or family, so they can also join us on this journey to a healthier future.



## add a breath of fresh air to your home



**SmartVent + MANROSE**

Partner your SmartVent ventilation system with a Manrose bathroom extraction fan and be sure your application meets the latest building codes and industry standards. Manrose - the market leading brand distributed by Simx Ltd.

DESIGNED FOR  
**G4**



**SmartVent**

[www.smartvent.co.nz](http://www.smartvent.co.nz)

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General enquiries ph: 0800 140 150

Specifications are subject to change without notice

