

the expert's choice



→ HEAT & ENERGY RECOVERY SYSTEMS



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Why Ventilation?

Modern homes are more airtight than ever, improving energy efficiency but often trapping moisture and pollutants inside. Windows are often not the most comfortable or sufficient for ventilation, and heat pumps typically provide no fresh air at all. Poor ventilation can lead to mould growth, dust mites, VOC (Volatile Organic Compounds) buildup, and condensation, all of which impact indoor air quality and the health of your family and home.

Healthier Living

Constant fresh air circulation improves comfort, health and wellbeing.

Moisture Control

Helps prevent mould, dampness and condensation, making homes easier to heat.

Better Air Quality

Reduces allergens, pollutants, and excess humidity.

Efficient Comfort

Heat recovery systems help keep your home warm in winter and cool in summer by reusing energy, making your home more comfortable and efficient.

SmartVent is a trusted name in home ventilation, backed by a family of international leaders in energy-efficient indoor air solutions. With over 40 years of expertise, SmartVent is the preferred choice for trade professionals: offering innovative, flexible, and forward-thinking systems designed for New Zealand homes.

Industry Expertise

Recommended by electricians and HVAC contractors nationwide.

Quiet Performance

A blend of fan technology, housing and system design helps deliver quieter performance.

Advanced Controls

Controls are purpose-built for each system and selected to suit your home's needs.

Flexible Solutions

Our systems are flexible, with a range of installation options even for challenging or compact spaces.

Reliability

5-year warranty and high-quality components for long-term peace of mind.





SmartVent systems are designed for effortless control and superior air filtration, ensuring a healthier and more comfortable home environment.

Add-ons and System Components



SmartVent heat recovery systems have a range of filter options depending on the model, and we can help you choose the best

Dew Point Control

Many SmartVent systems use real humidity levels and temperatures to provide the right air at the right time, you don't even need to lift a finger.

Brushless EC fans

Most SmartVent systems use energy-efficient brushless EC fans for lower running costs.

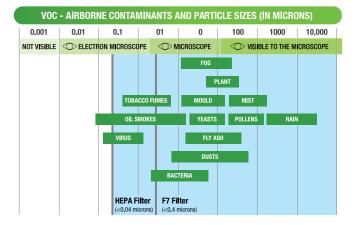
Efficient Cores

With options up to 93% efficient, including both energy and heat recovery, we have a solution for every job.



Designed for you

Not every home is the same. At SmartVent we understand that and can help by tailoring a solution for you.





HEAT & ENERGY RECOVERY SYSTEMS



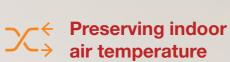


For those who want to maximise comfort.

A heat recovery system brings fresh air into your home while helping keep it warm in winter and cool in summer. It works by capturing the heat (or coolness) from the stale air being removed, and transferring it to the fresh air coming in. This helps maintain a comfortable indoor temperature and reduces energy waste.

In colder months, it's especially important for your ventilation system to support the warmth in your home rather than undo it. The key to performance is the system's core efficiency — the better it is, the more heat it can recover.

In summer, many systems include a built-in bypass that brings in cooler outside air, helping your home stay comfortable without using extra energy.





Exhaust Air Moist, stale air

forced out of the home

Outside Air Fresh air drawn in from outside

Supply Air

Tempered air enters the home

Return Air

Moist, humid air is extracted from the home



Traditional Ventilation vs

Heat Recovery

Why heat recovery?

A heat recovery system does more than just ventilate your home—it also helps maintain a comfortable temperature. This means your heating or cooling system doesn't have to work as hard, which can lower your power bills throughout the year.

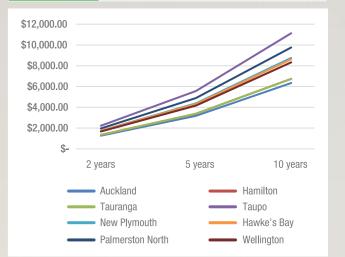
The following charts and graphs demonstrate how much of your heating bill you could save by installing a heat recovery system instead of a traditional ventilation system (Fig.1).

Mechanical ventilation with heat recovery units (MVHR) offer additional energy savings above and beyond that of a typical ventilation system.

Assumptions: The savings shown here are based on potential heating cost savings when reheating air through a 90% efficient MVHR running continuously verses a direct air system to achieve 20°C+ year-round for an air volume based on 0.35ACH in a 150m² house with a 2.4m ceiling height using electric heat at 30 cents/kWh.

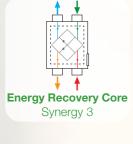
Cumulative Heating Cost Savings (Fig.1)

North Island	2 Years	5 Years	10 Years
Auckland	\$ 1,268.28	\$ 3,170.69	\$ 6,341.38
Hamilton	\$ 1,348.54	\$ 3,371.34	\$ 6,742.68
Tauranga	\$ 1,348.54	\$ 3,371.34	\$ 6,742.68
Taupo	\$ 2,224.97	\$ 5,562.44	\$ 11,124.87
New Plymouth	\$ 1,750.61	\$ 4,376.53	\$ 8,753.06
Hawke's Bay	\$ 1,724.04	\$ 4,310.10	\$ 8,620.20
Palmerston North	\$ 1,952.94	\$ 4,882.35	\$ 9,764.69
Wellington	\$ 1,665.66	\$ 4,164.16	\$ 8,328.32



South Island	2 Years	5 Years	10 Years
Nelson	\$ 1,808.05	\$ 4,520.13	\$ 9,040.25
Christchurch	\$ 2,354.70	\$ 5,886.75	\$ 11,773.51
Greymouth	\$ 2,338.37	\$ 5,845.92	\$ 11,691.84
Queenstown	\$ 2,970.20	\$ 7,425.50	\$ 14,851.01
Dunedin	\$ 2,725.52	\$ 6,813.79	\$ 13,627.59
Invercargill	\$ 2,801.87	\$ 7,004.67	\$ 14,009.34













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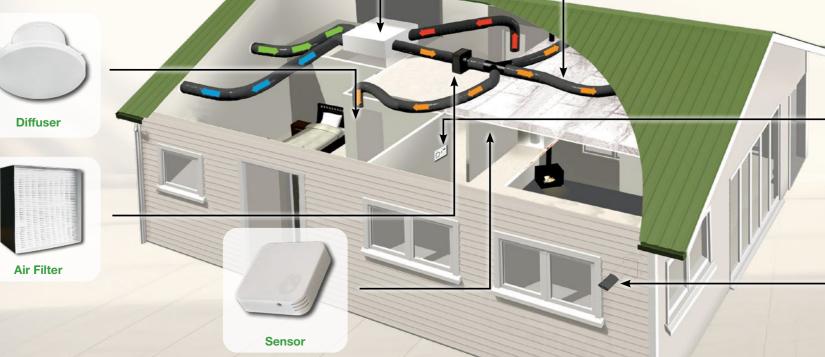


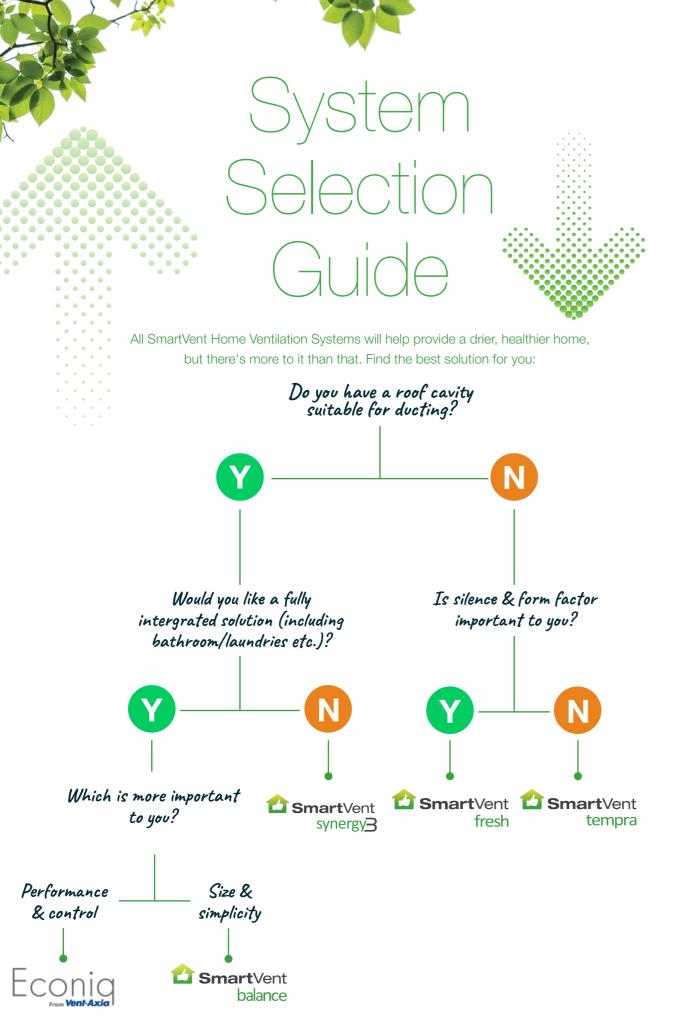
Acoustic Insulated Ducting



Full-Featured Controller and App Control







System	Synergy3	Balance	Econiq	Fresh	Tempra
HEAT & ENERGY RECOVERY SYSTEMS	Build your own solution on a practical base with modern control and app. Choose the comfort features that matter most to you.	Set and forget with this high-performance complete solution. Deliver both extract and supply in one package, designed to be hidden away.	Our highest-performance home ventilation system with advanced automation and app control. Delivering an all-in-one ventilation solution.	No roof cavity? No problem! Supply and extract air through external walls with this system. Optional add-ons are available to provide additional system automation.	A stand-alone, through- wall heat recovery system. Designed for single room & wet room ventilation.
Supply Rooms (Fresh Air In)	3 to 6	3 to 6	3 to 8	Up to 16 units total	1 per unit
Extraction Rooms (Stale Air Out)	1 to 2	1 to 3	1 to 4	Up to 16 units total	1 per unit
Moisture Control	Habitable rooms	Wet & habitable rooms	Wet & habitable rooms	Habitable rooms	Wet & habitable rooms
Heat Recovery Efficiency	Up to 75%	Up to 90%	Up to 93%	Up to 82%	Up to 80%
Heat Recovery Locations	Habitable rooms	Wet and habitable rooms	Wet and habitable rooms	Habitable rooms	Wet & habitable rooms
Cheaper to Run (EC Fan)	AC fan	V	V	V	N/A
Quieter Design	√ (Acoustic duct)	√ (Low noise fan)	√ (Low noise fan)	√ (Low noise fan)	N/A
Roof Cavity Required	V	Wall or roof mounted	Wall or roof mounted	Installed through-wall	Installed through-wall
Standard Filter (Upgrade available)	G3+F7	G4+F7	G4 (+Upgrade option)	Washable dust filter	Washable insect screen
Comfort Add-Ons					
Flexi Air Source Chooses the best air source for the home	Optional	Source bypass	Source bypass	Programmable direction built-in	N/A
Heat Transfer Shares the warmth from the lounge to the bedrooms	Optional	Separated	Separated	Separated	Separated
Tempering Heater Takes the edge off the incoming air using an electric heater	Optional (up to 75% energy recovery built in)	Includes up to 90% heat recovery	Includes up to 93% heat recovery	Includes up to 82% heat recovery	Includes up to 80% heat recovery
Core Bypass Allows direct air when conditions are comfortable	N/A	V	V	√ (+0ne-way operation)	N/A
Controls & Sensors					
Controls	6.8" Colour Touchscreen	Wall Controller	Wall Controller	Wall Controller (Optional)	Pull Cord
App Control	V	N/A	V	V	N/A
Controller Ease of Use	Easy	Intermediate	Advanced	Advanced	Easy
Functionality	Enhanced	Intermediate	Enhanced	Enhanced	Basic
Humidity and Temperature Sensing	√ x4	√ (Built-in)	√ (+Expandable)	√ (Optional)	N/A
Rental Lock	N/A	V	N/A	N/A	N/A
Scheduling	Weekly	Daily	Weekly	Weekly	N/A

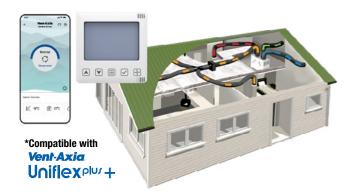
^{*}Designed solutions may exceed these numbers.

Centralised Heat & Energy Recovery Solutions

Comfortable and efficient home ventilation

Heat recovery cores have the added benefit of being suitable for wet zones and can be used to provide extraction to kitchens, bathrooms and laundries as well as supplying throughout your home. **Energy recovery cores** provide efficient performance and a small amount of moisture exchange, but cannot extract from the wet rooms. They are beneficial when you live in a particularly dry or humidity-controlled environment. Both systems achieve their best performance when installed within the thermal envelope.





Our premium heat recovery solution with app control, up to **93% heat recovery**, incredibly quiet operation, built-in summer bypass, humidity sensing and an economical EC fan. The airtight construction includes easy change filters, additional unit insulation, and a heat recovery core providing both fresh air supply and bathroom extraction, efficiently. Plus, you can add additional remote sensors to your custom design.

BEST FOR

Larger or custom homes and particularly those paying attention to **energy efficiency, airtightness and comfort** while wanting a fully integrated, balanced fresh air and extraction solution with expandable, **advanced controls**.

SUPPLY & EXTRACT ROOMS

 MEDIUM-LARGE (223m³/hr, 100-400m²)
 3-5 supply, 1-2+ exhaust (Econiq S)

 EXTRA LARGE (395m³/hr, 150-500m²)
 4-8 supply, 2-4+ exhaust (Econiq M)

NOTE: Larger or more complex layouts available by request.





A well-rounded heat recovery solution with set and forget controls, up to **90% heat recovery**, built-in summer bypass, humidity sensing and an economical EC fan. The compact form means fitment through ceiling hatches or in cupboards and wardrobes needs little room while still including easy change filters. The heat recovery core allows for both fresh air supply and bathroom extraction, efficiently.

BEST FOR

Most homes, but particularly those wanting **no-nonsense controls, good performance, efficiency and comfort** in a fully integrated, balanced fresh air and extraction solution. Great option for **townhouses** and **apartments** wanting central ventilation.

SUPPLY & EXTRACT ROOMS

MEDIUM (223m³/hr, 50-250m²) **3-4 supply, 1-2 exhaust** (BAL225) **LARGE** (395m³/hr, 100-450m²) **5-6 supply, 2-3 exhaust** (BAL405)

NOTE: Larger or more complex layouts available by request.

SmartVent synergy3 Figure 1993 SmartVent Synergy3 Syner

ADD-ONS

Source	⊗	Small (1kW)*	Large (2kW)*	Grille √
Flexi Air	Heat Transfer	Tempering Heater	Tempering Heater	Through Wall

A flexible, energy-efficient solution with app control, four sensors, and an advanced touchscreen. Up to **75% energy recovery** and the option to integrate heat transfer, multiple air sources and additional heaters.

BEST FOR

Homes with a fireplace, an existing/alternative extraction system or where a shorter height is required. Not suitable for bathroom extraction.

SUPPLY & EXTRACT ROOMS

 SMALL (137m³/hr, 50-150m²)
 3-4 supply, 1-2 return (SYN1015E2)

 MEDIUM (216m³/hr, 75-250m²)
 3-5 supply, 1-2 return (SYN2025E2)

 LARGE (324m³/hr, 120-350m²)
 3-6 supply, 1-2 return (SYN3035E2)

*Sizing is indicative only and depends on house layout and installation, max house size based on 0.35ACH@2.45m ceiling height and 150Pa for a straightforward single story install. We recommend not sizing at max if boost capacity is desired. Contact SmartVent for design advice if more outlets, extracts/returns or complex duct installs are required.

*Compatible with our specialised small ducting solution Uniflex+ for more robust installations in confined spaces. Uniflex+ installation should be within the thermal envelope.

Single Room Solutions

Smarter ventilation options for complex homes



ADD-ONS

Wireless e16 Wall Controller	Indoor CO2 Sensor	Outdoor Humidity & Temperature Sensor	Indoor Humidity & Temperature Sensor
	-		IIII
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A quiet **through-wall** ventilation system with **82%** heat recovery that connects to a network of other units and offers several control options, including app control. It uses very quiet and energy-efficient fans.

BEST FOR

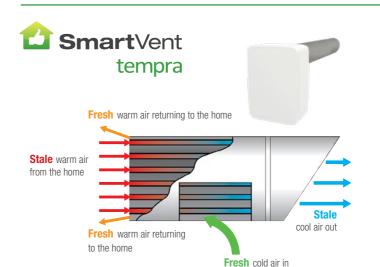
Custom and complex homes where space is at a premium. Perfect for bedrooms and living areas where low noise and clean design are important, while still delivering great comfort, smart control, and energy efficiency.

IDEAL HOME TYPE

Townhouses, apartments, homes with skillion or cathedral ceilings, tiny homes, and sleepouts.

SUPPLY ROOMS 1 per bedroom, 1-2 per living space

COVERAGE* Up to 33m²



A **stand-alone, through-wall** ventilation system with **80%** heat recovery. Designed for bathrooms and living spaces. It has a small wall penetration and easy-to-use controls, making it simple to install and operate.

BEST FOR

Bathrooms, garage conversions, and shared spaces where consistent balanced airflow matters most.

IDEAL HOME TYPE

Bathrooms, garage conversions, communal areas, and relocatable or multipurpose spaces.

SUPPLY ROOMS 1 per room

EXTRACT ROOMS 1 per room (wet room compatible)

COVERAGE* Up to 37m²

Vent-Axia PureAir Room 260X



PURIFY YOUR INDOOR AIR FOR A HEALTHIER HOME ENVIRONMENT

An in-room air purifier—perfect when opening windows isn't an option*.

*Please note: This unit is not a dehumidifier.

BEST FOR

Reducing dust, mould spores, bacteria, and viruses in homes.

IDEAL SPACE TYPE

Living rooms, dining areas, bedrooms, nurseries, and home offices.

SUPPLY ROOMS

ROOMS 1 per room (portable)

COVERAGE* 30m²

*Room size varies by occupancy, usage type and compliance requirements. Sizes given here based on 0.35ACH and 2.45m stud height.

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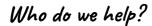


Ventilation

How can we help?

Our design service lets you use our team's ventilation expertise to help choose the right system for your complex project or new build, specifically designed to suit your needs and relevant compliance.

Just fill out our design form, and we'll send you a full system design and parts list tailored to your home or project.



Complex Design

Some homes have tricky layouts or limited space for ducting. Complex designs are typically found in architectural homes, cathedral/skillion roofs, properties with a small or no roof cavity, multi storey buildings, and high-end homes. Our experts can help design a system that works.

Compliance

The SmartVent ventilation design service offers full support for ensuring ventilation building code compliance and improving acoustic design including G4, healthy homes, Homestar, and background or aircraft noise areas.

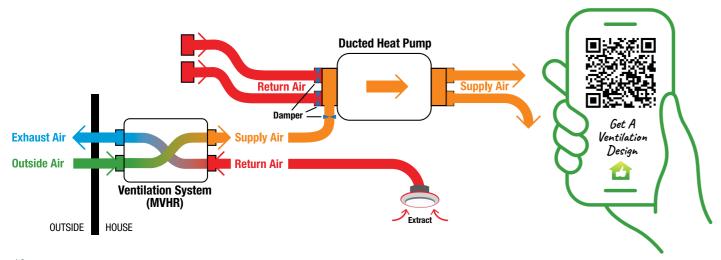


High End Homes

High end and passive homes with a focus on energy efficiency. Our design service can help create proper air channels and ensure that the property is getting the required air changes per hour.

Heat Pump Integrations

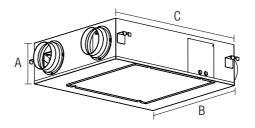
Give us your heat pump design and we can provide a heat recovery overlay and parts list. This lets you get the best of both worlds; fresh air at a comfortable temperature, without breaking the bank every time you turn it on.

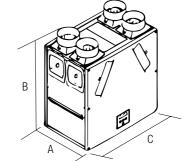


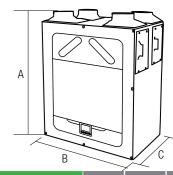
Heat & Energy Recovery Systems **Specifications**



Systems	Synergy3		Balance		Econiq		
Coverage	Up to 110m ²	Up to 135m²	Up to 250m²	Up to 150m²	Up to 250m²	Up to 250m²	Up to 350m²
Specifications	SYN1015AD	SYN2025AD	SYN3035AD	BAL225	BAL405	Econiq S	Econiq M
Fan Type		AC Centrifugal		EC Cer	ıtrifugal	EC Cer	ntrifugal
Max. Fan Cores		2		-	-	-	_
Spigot Size		150mm		125mm	150mm	125mm	200mm
Fan Speeds	3		10		4 (Programmable)		
Max. Air Flow per Fan @ 0 Pa	77 l/s, 277 m³/hr	97 l/s, 350 m³/hr	130 l/s, 468 m³/hr	76 l/s, 275 m³/hr	136 l/s, 490 m³/hr	177 l/s, 421 m³/hr	166 l/s, 600 m³/hr
Max. Air Flow per Fan @ 150 Pa	38 l/s, 137 m³/hr	60 l/s, 216 m³/hr	90 l/s, 324 m³/hr	62 l/s, 223m³/hr	110 l/s, 395 m³/hr	97 l/s, 349 m³/hr	125 l/s, 450 m³/hr
Max. Static Pressure per Fan	238 Pa	285 Pa	354 Pa	380 Pa	600 Pa	700 Pa	680 Pa
Power Supply	2	230-240V AC 50 H	Iz	220-240V AC 50 Hz		220-240V AC 50 Hz	
Total Input Power	120W	178W	280W	128W	173W	166W	206W
Current (A)	0.46A	0.7A	1.1A	0.58A	0.79A	0.76A	0.94A
Operating Temp	−10°C to 40°C			-20°C	to 45°C	-20°C	to 40°C
Sound Level	31.5 dB(A)	34 dB(A)	37 dB(A)	39 (IB(A)	43 dB(A)	38 dB(A)



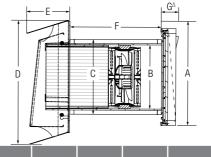




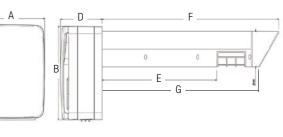
Synergy3 Core Dimensions (mm)	А	В	С
SYN1015AD	230	690	860
SYN2025AD	230	710	930
SYN3035AD	240	820	1070

	_			
Balance Core Dimensions (mm)	А	В	С	
BAL225	285	650	550	
BAL405	524	745	776	

Econiq Core Dimensions (mm)	A	В	С
Econiq S	823	660	443
Econiq M	931	728	608







Standard	270	Ø160	Ø180	276	80	≥14	40	44	
Specification	Tric	kle (25%)	Medium (40%)		High (70%	5)	Воо	st (100%)	
Efficiency		82%	72%		68%			60%	

Specification	Trickle (25%)	Medium (40%)	Hign (70%)	Boost (100%)
Efficiency	82%	72%	68%	60%
Extract/Heat Recovery (Pair)*	5.5 l/s (20m³/hr)	7.2 l/s (26m³/hr)	11.1 l/s (40m³/hr)	16.1 l/s (58m³/hr
Power (Pair+Controller)	2.6W	3.5W	5.3W	10.1W
Heat Recovery (Single)*	2.8 l/s (10m³/hr)	3.6 l/s (10m³/hr)	5.5 l/s (20m³/hr)	8 l/s (28m³/hr)
Power (Single)	1.3W	1.75W	5.3W	10.1W
Sound	12dB(A)	24dB(A)	30dB(A)	37dB(A)

Tempra Dimensions (mm)	А	В	С	D	Е	F	G
Standard Tube	190	266	262	117	321	496	450
Long Tube	190	266	262	117	461	636	590

Specification	Trickle – Low	Trickle – High	Boost
Free Air Performance	6 l/s	9 l/s	15 l/s
Power	3.2W	5.7W	26.6W
Sound	27.3 dB(A)	35.9 dB(A)	48.8 dB(A)





Home Ventilation Systems

Fresh filtered air in

Moist stale air out

Ask what we can do for you

General enquiries ph: 0800 140 150 www.smartvent.co.nz | enquiry@smartvent.co.nz



