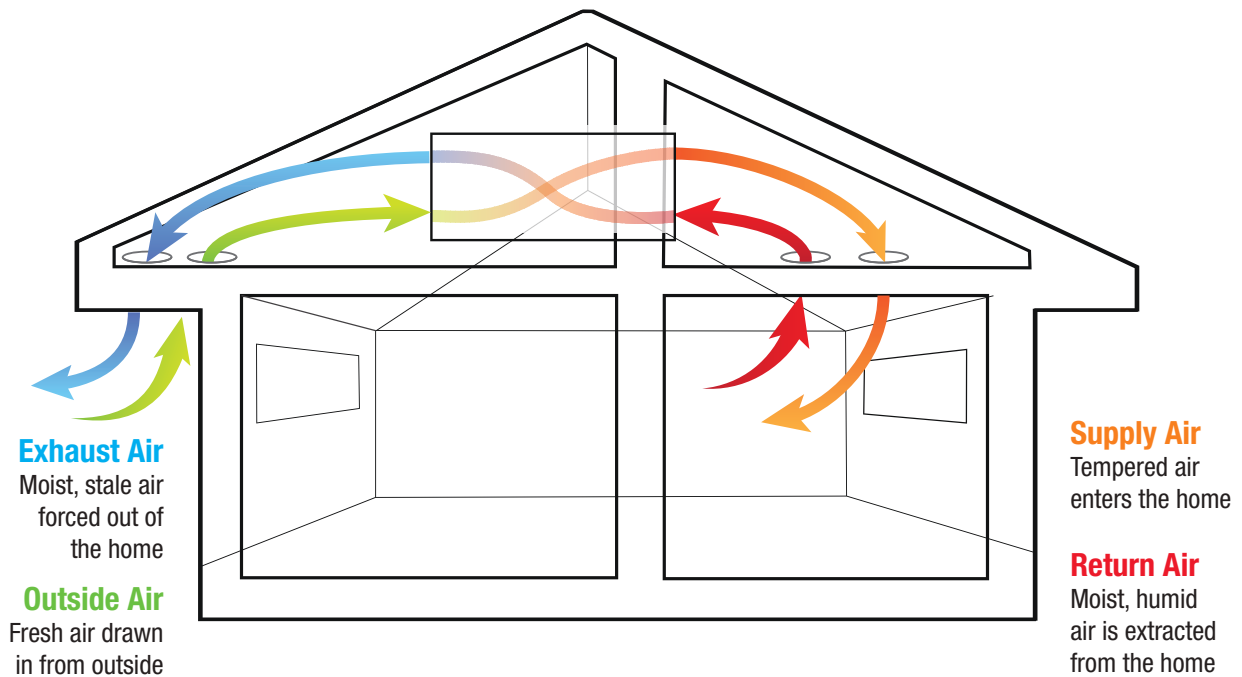




SmartVent balance



HEAT RECOVERY VENTILATION SYSTEM



BAL225 - FAN6838

3 Supply Outlets / 1 Extract

BAL405 - FAN6839

5 Supply Outlets / 2 Extract



volution

Simx is a business of the Volution Group plc, a UK public company. As a leading international designer and manufacturer of energy-efficient, indoor air quality solutions, Volution Group is committed to providing healthy air, sustainably. Volution have a strong ESG strategy evidenced by recently being awarded the London Stock Exchange, Green Economy Mark which is given to companies, or funds, that derive more than 50% of revenues from environmental solutions. For over 40 years, Simx has evolved from its beginnings in security products to healthy home solutions, commercial ventilation products and lighting and sensors, and is more committed to innovation and excellence than ever before. With NZ based research and development, technical and engineering teams, and 21 sister companies throughout Europe and Australasia specialising in ventilation, Simx will continue to grow by bringing world leading technologies to the New Zealand market.

United Kingdom



- New Build Residential, RMI (Public and Private), Commercial, Export and OEM

MANROSE[®] Vent-Axia

torin-sifan NATIONAL VENTILATION

AIRTECH Breathing Buildings

DIFFUSION

Continental Europe



- Nordics, Germany, Belgium, the Netherlands, Spain, Italy
- Bosnia and Herzegovina, North Macedonia (production facilities only)
- New Build Residential, RMI, Commercial

Fresh

TKAIR[®]

Ventilair GROUP

VoltAir[®]

INVENTER[®]

PAX[®]

AIR CONNECTION

ClimaRad[®]
FUTURE COMFORT TODAY

rtek

ERI CORPORATION
ENERGY RECOVERY AND VENTILATION COMPONENTS

i-Vent
Smart ventilation

VMI[®]

Australasia



- New Zealand and Australia
- New Build Residential and RMI

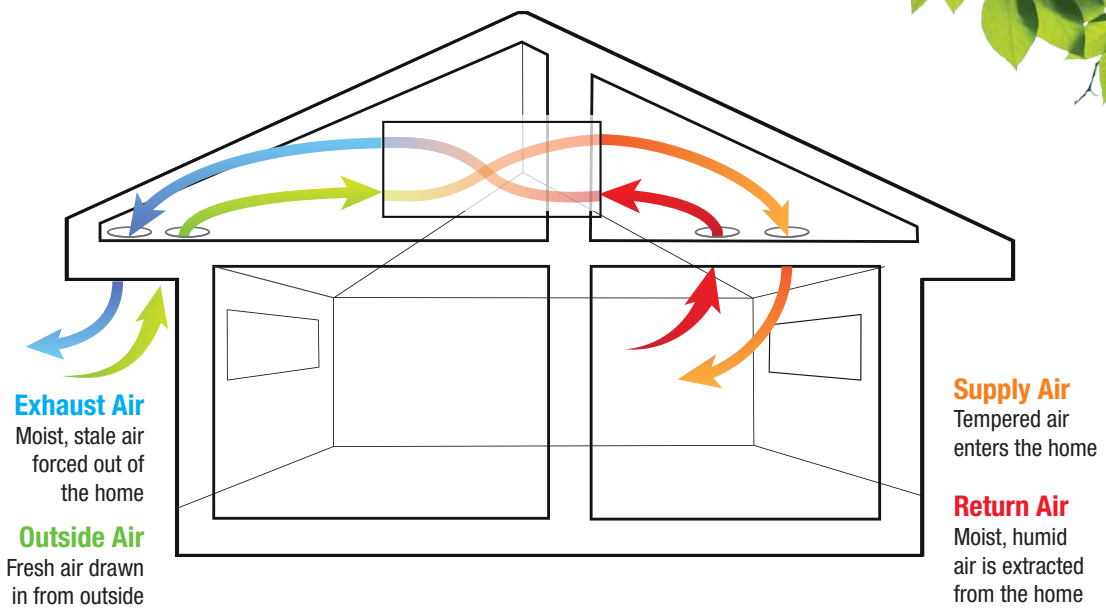
Simx

ventair
THE AIR MOVEMENT SPECIALISTS

MANROSE

Vent-Axia, our sister company, manufacture a range that covers residential and non-residential applications, and consists of unitary fans, demand control systems, specialist heat recovery and whole-house systems, with a leading market share in Social Housing. Founded in 1936, for 80 years, Vent-Axia sets the ventilation standard.

HEAT RECOVERY VENTILATION SYSTEM



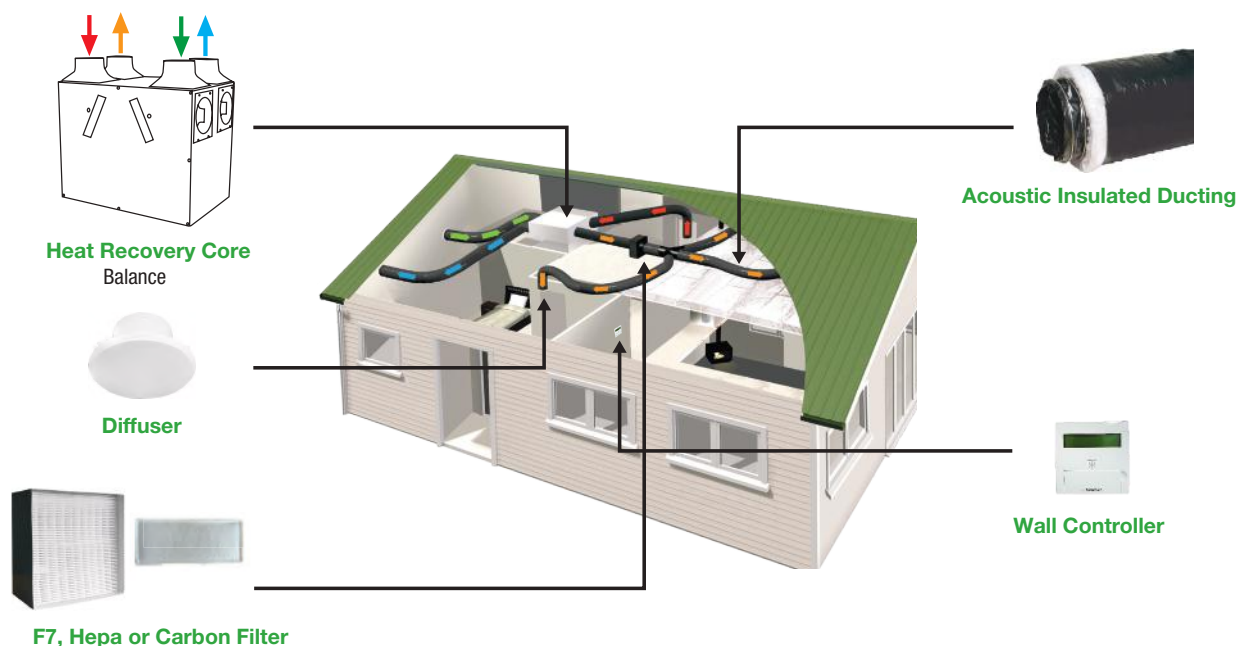
the expert's choice

Heat recovery systems recover heat or cooling energy from extracted room air and also heat energy from moist air areas such as bathrooms.

Both Balance 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. Balance models, with a counterflow core, deliver up to **90%**.





SmartVent balance

Overview

SmartVent Balance is an energy efficient heat recovery ventilation system designed specifically for new build and low-permeability properties.

These systems incorporate MVHR (mechanical ventilation with heat recovery) technology which effectively uses the heat of the stale air being extracted to temper the incoming cold air to ensure that the loss of heat in the home is kept to a minimum. The warm, moist, stale air is extracted from a central point in the home, such as the hallway or wet rooms, through ducting and passed through the heat exchanger before being exhausted to the outside. Incoming fresh air is filtered and then tempered, without being polluted, via the integral counterflow heat exchanger which recovers up to **90%** of the heat energy from the home, that would otherwise be wasted, thus maximising energy efficiency. A built-in core bypass allows for effortless summer operation, this European-inspired and manufactured system is set to impress those looking for the best.

SmartVent Balance Range

Home ventilation system best suited to homes built to modern standards

Model	Description	Product Code
BAL225	3 supply outlets/1 extract (expandable to 4 outlets/2 extracts*) for homes up to 150m ²	FAN6838
BAL405	5 supply outlets/2 extract (expandable to 6 outlets/3 extracts*) for homes up to 350m ²	FAN6839

* Contact SmartVent for design advice if more outlets or extracts are required

System Extensions

Model	Outlet	Extract
BAL225	DCT4363	DCT4362
BAL405	DCT2334	DCT2335

Extension kits can be used to add more outlets and extracts to your SmartVent home ventilation system.

Features

Features	BAL225 BAL405
Humidity Sensing	
Temperature Sensing	
Low Temperature Protection	
Auto or Manual Operation	
Core Efficiency (°C)	up to 90%
Core Bypass	
Boost Control	
Filter Change Alert	

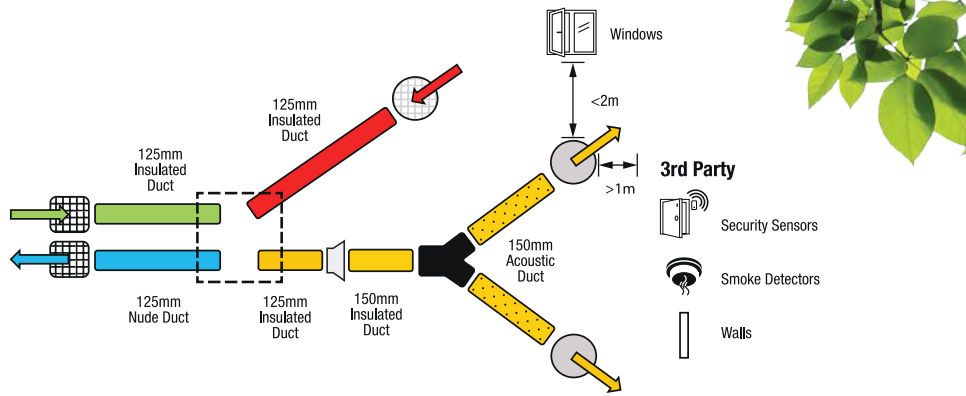


Control Condensation
Reduce moisture, mould and mildew
while maximising energy efficiency

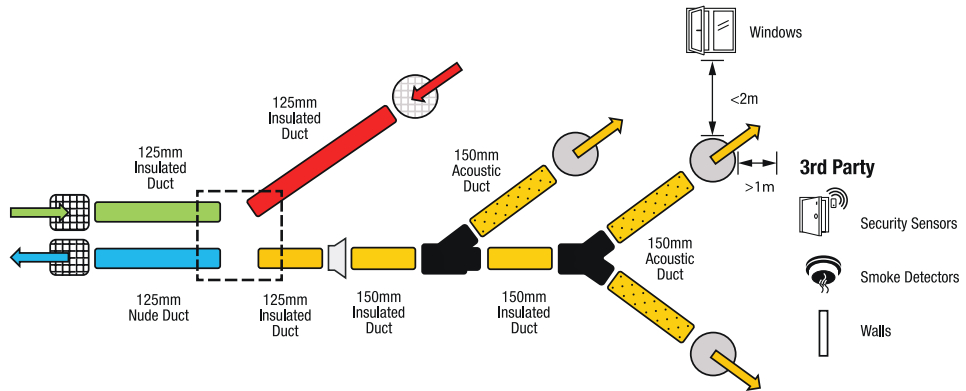
5
YEAR
WARRANTY

BAL225*

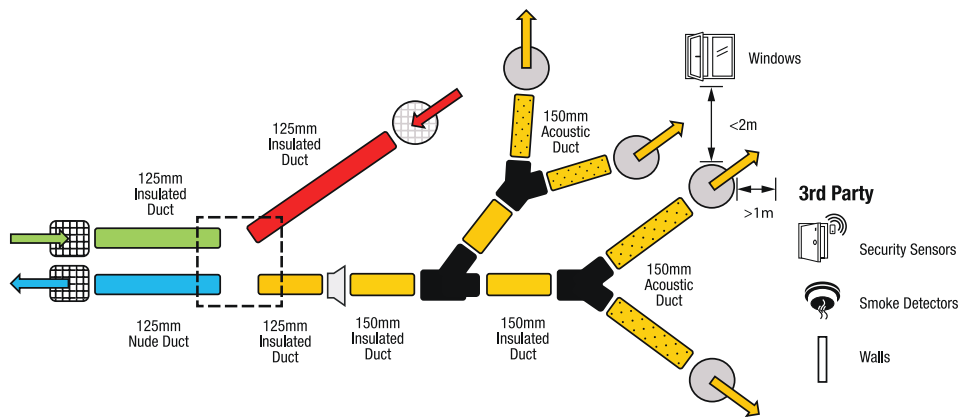
1 Bedroom



2 Bedroom

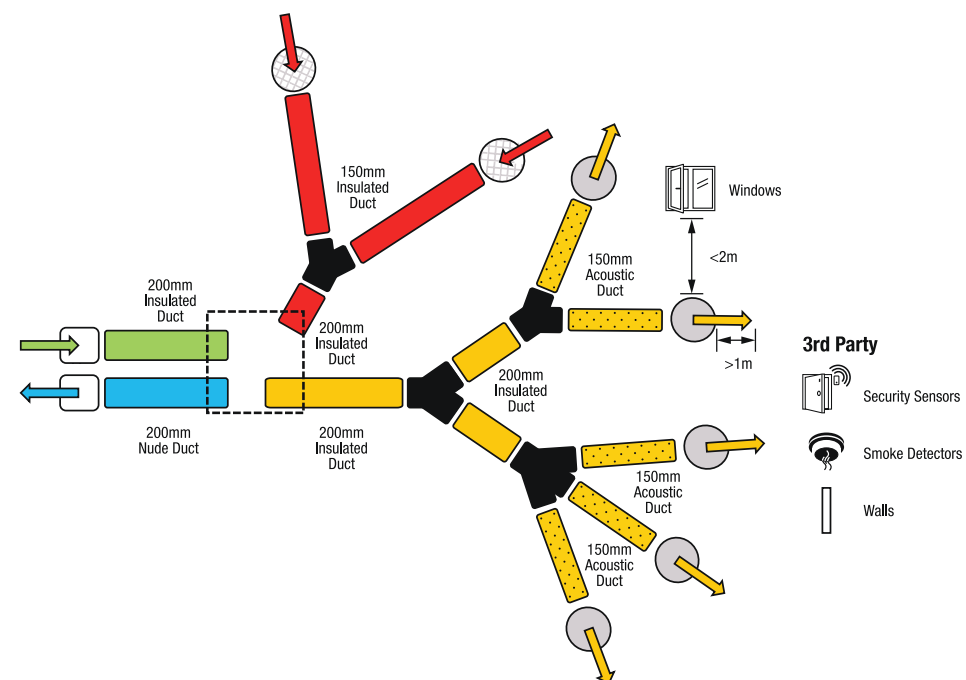


3 Bedroom



BAL405

4 Bedroom



*If the home has more than one bathroom, we recommend using a BAL405 system.



Filter Replacement

Shop filter replacements on our website www.smartvent.co.nz

Standard

SmartVent F7 Filter - DCT2093

SmartVent uses high quality filters designed to capture dust, pollens & allergens with 90% arrestance of particles 0.4 microns and above.

We recommend replacing after approx **12 months** for maximum effectiveness, although your controller will tell you when your filter is full.

Optional

Carbon Filters - DCT2277

The carbon filter option is an absorbent filter that will effectively trap odours, pollutants and particles passing through it.

We recommend replacing after **6 months** for maximum effectiveness.

HEPA Filters - DCT2278

HEPA filters are efficient in preventing the spread of airborne bacteria and viral organisms at the 0.04 micron particle size. Recommended for those with allergies or breathing ailments.

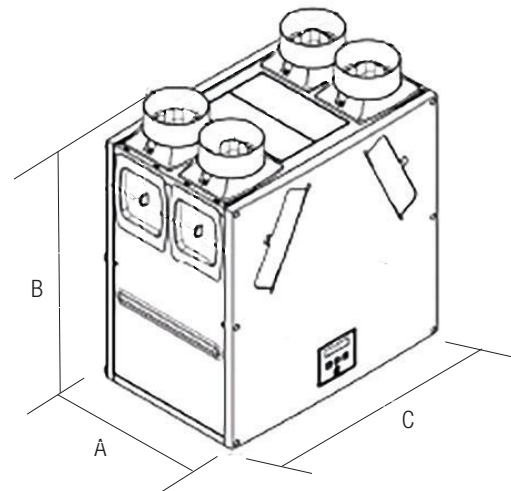
We recommend replacing after **6 months** for maximum effectiveness.

Filter replacement is not included in the warranty.

SmartVent Balance Specifications

Specifications	BAL225	BAL405
Fan Type	EC Centrifugal	
Spigot Size	125mm	150mm
Fan Speeds	10	
Max. Air Flow per Fan @ 0 Pa	76 l/s, 275m ³ /hr	136 l/s, 490m ³ /hr
Max. Air Flow per Fan @ 150 Pa	62 l/s, 223m ³ /hr	110 l/s, 395m ³ /hr
Max. Static Pressure per Fan	380 Pa	600 Pa
Power Supply	220–240V AC 50 Hz	
Total Input Power	128W	173W
Current (A)	0.58A	0.79A
Operating Temp	–20°C to 45°C	
Sound Level	39 dB(A)	

Heat Recovery Core Dimensions (mm)	A	B	C
BAL225	285	650	550
BAL405	524	745	776



Points Available	5						
Mandatory Minimums	<p>The achievement of the following points is mandatory for the respective star rating:</p> <table border="1"> <tr> <td>6 & 7 Homestar</td> <td>8 Homestar</td> <td>9 & 10 Homestar</td> </tr> <tr> <td>2 points</td> <td>3 points</td> <td>4 points</td> </tr> </table>	6 & 7 Homestar	8 Homestar	9 & 10 Homestar	2 points	3 points	4 points
6 & 7 Homestar	8 Homestar	9 & 10 Homestar					
2 points	3 points	4 points					
Aim	To encourage and recognise ventilation measures that control indoor moisture levels, improve indoor environment for occupants, reduce respiratory illnesses and the risk of mould, and increase the durability of the dwelling.						
Project-wide	<table border="1"> <tr> <td>No</td> <td>Calculator</td> <td>No</td> </tr> </table>	No	Calculator	No			
No	Calculator	No					

Credit Criteria

Up to 4 points are available where it is demonstrated that indoor moisture levels have been managed through one of the three methods listed below. In homes targeting a pressure test result of less than 1 m³/m²/hr, balanced mechanical ventilation must be installed as a minimum. An additional 1 point can be attained through commissioning of any type of compliant ventilation system.

Method	Approach	Points
Moisture Management Through Ventilation		
(1)	Continuous extract ventilation	2 points
(2)	Balanced ventilation	3 points
(3)	Balanced ventilation with heat recovery (MVHR)	4 points
Commissioning		
(4)	Ventilation system commissioning	1 point

SmartVent Balance MVHR Systems qualify for up to 5 points (if commissioned)

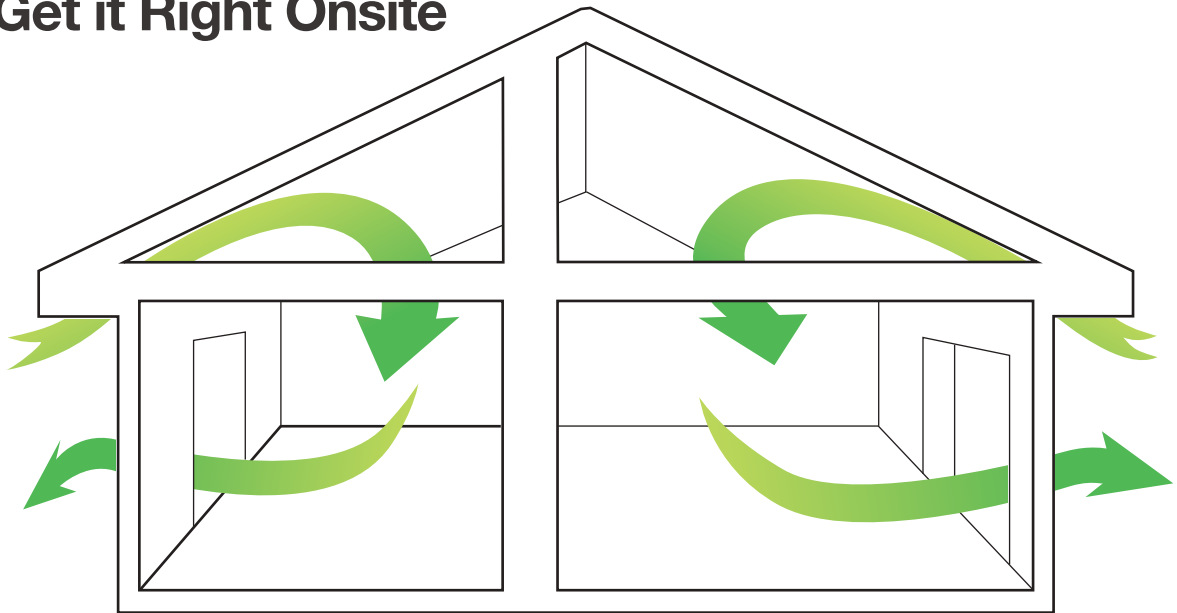


SmartVent





the expert's choice

HOME VENTILATION SYSTEMS

For High Background Noise Compliance
Get it Right Onsite



If you need assistance with building consents for high background noise affected sites, we can expedite the process by providing you with the ventilation system reports you need. Our service includes compliance letters for standalone homes and multi-dwelling properties and/or producer statements.

-  Building code compliance
-  Heat recovery solutions
-  System upgrade options
-  5 year warranty

Planning service

0800 140 150



enquiry@smartvent.co.nz | www.smartvent.co.nz



Scan to upload
your building plans