

SMARTVENT LITE SYSTEM

Definitions

Before use please read and understand these definitions.



WARNING and or the use of the symbol refers to conditions where the possibility of injury, or death, exists if the procedure is not followed.

CAUTION CAUTION indicates the possibility of damage to the equipment, installation or premises if a procedure is not followed.

NOTE: NOTE: provides additional information intended to clarify points, procedures or instructions.

Important

Please read all instructions before commencing installation.

- All wiring should be performed by a qualified electrician and comply with national wiring rules.
- Switch off mains supply before making any electrical connections. If in any doubt contact a qualified electrician.
- The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction
- Children should be supervised so that they do not to play with the appliance.
- Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.
- Take appropriate safety measures when cutting hazardous building materials.
- The roof space **MUST** be inspected to ensure it does not have any conditions that may cause the system to draw moisture into the home. Conditions may include: unducted bathroom or kitchen extraction, roof leaks, tile roofs requiring re-coating, open wall cavities, gutter leaks or other building envelope leaks.
- Ceiling penetrations/openings (i.e. access hatch, open backed down lights) between the living spaces and roof space reduce the effectiveness of the system. These should be sealed where possible.

SMARTVENT LITE VENTILATION SYSTEM

Kit Contents	SV01L	SV02L	SV04L	SV06L
SMARTVENT LITE Controller	1	1	1	1
150mm Fan	1	1	-	-
200mm Fan	-	-	1	2
Fan Suspension Kit	1	1	1	2
F7 Filter	1	1	1	2
150mm Fixed Grille	1	1	1	2
200mm Fixed Grille	-	-	1	2
150mm Low Profile Diffuser	1	2	4	6
150/150/150mm Y-Branch	-	1	1	-
200/150/150/150mm Double Branch	-	-	1	2
150mm x 6m Nude Duct	-	2	3	6
200mm x 3m Nude Duct	-	-	1	1
150mm x 3m Acoustic Duct	1	1	-	-
200mm x 3m Acoustic Duct	-	-	1	2
30m Duct Tape Roll	1	1	1	2

Installation Plan

1. Diffuser Locations

- Install diffusers in living spaces (e.g. bedrooms and living rooms).
- **DO NOT** install diffusers in wet areas (e.g. bathrooms, kitchens and laundries).
- Where possible, install diffusers within 2m of windows and keep away from doorways.
- **DO NOT** install diffusers within 1m of smoke alarms and walls, or security sensors and walls.

2. Controller and Roof Sensor Location

- Install inside only.
- Mount ~1.5m above the floor on an inner wall.
- **DO NOT** install in wet/damp areas (i.e. laundry or bathrooms), on hot surfaces, in convection currents, or exposed to direct sunlight.
- **DO NOT** install near any localised heat source.
- Mount the roof space NTC sensor close to the fan in the roof.

3. Fan Location

- Suspend fans away from bedrooms, if possible, more than 4m away.
- Suspend fans in the roof space near to the SMARTVENT LITE Touch Screen Controller location.

4. Ducting Layout

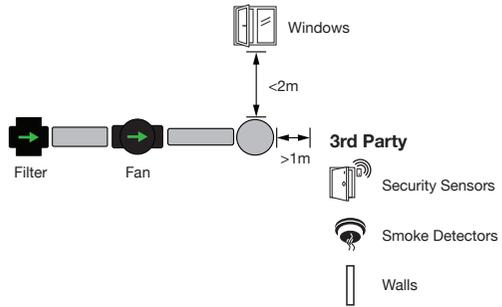
- Keep ducting paths as short and as straight as possible (ducts can be cut or extended).
- Make sure there is at least 2m of acoustic duct between the fan and the first bend or branch of which the first metre from the fan must be straight.

5. Make-Up Air Grille Location

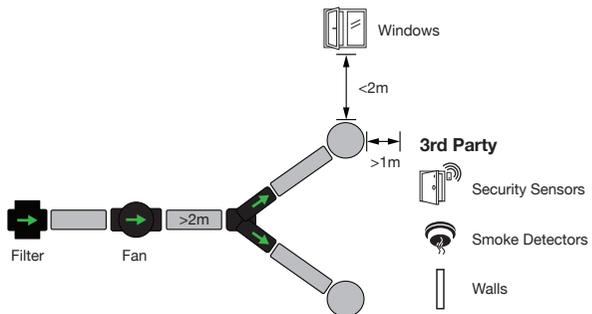
- Install in soffit, keep away from sources of moisture or strong odours. Sources of moisture may include: outdoor gas burner, bathroom or kitchen outlet grille, lawn, pools, or other outdoor areas where water might collect.

Standard Systems

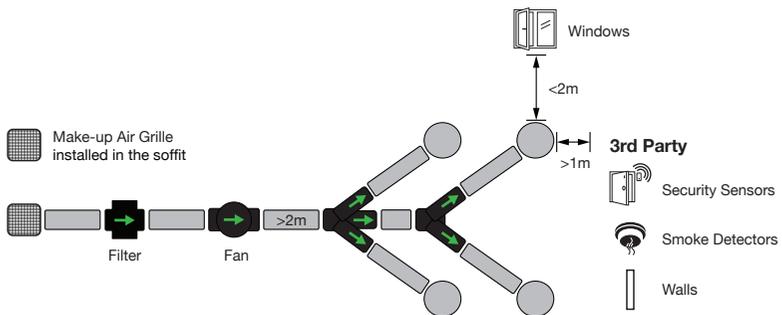
SV01L



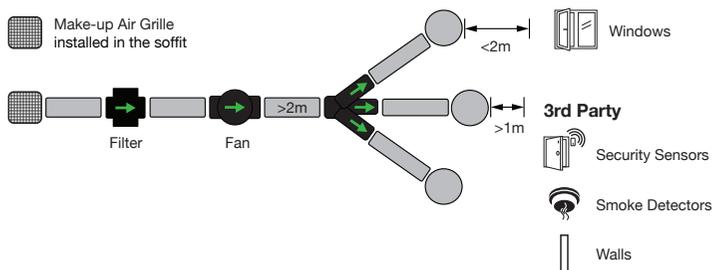
SV02L



SV04L



SV06L



Ducting Installation Instruction

IMPORTANT

- Take appropriate safety measures when cutting hazardous building materials.
- Plan the installation as per the *Installation Plan*.
- Wind duct tape 3 times around duct and spigots for a secure connection.
- **DO NOT** put excessive strain on taped connections.
- Excess duct should be cut to keep the ducting path as short and straight as possible.
- Make sure the outer sleeve of the acoustic duct is taped thoroughly so air cannot leak out.

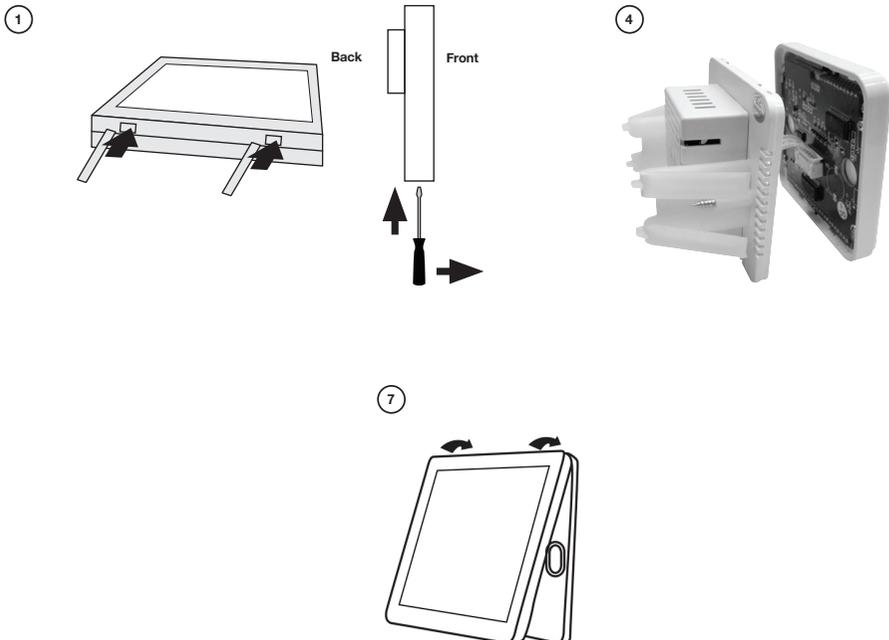
Installation Procedure

1. Cut a hole in the soffit and install the make-up air grille.
2. Lay out fans, filters, intake grilles, branches and ducts in the roof space. Make sure there are suspension points for the fans and intake grilles.
3. Cut holes for the diffusers using the cardboard templates provided.
4. Tape ducts to diffusers and install diffusers.
5. Pull ducts taught, cut off excess and tap to branches, fans, filters and grilles.
6. Suspend the fan no more than 300mm above the roof insulation and ensure it does not make direct contact with any framing.
7. Secure the intake grille to ensure the system cannot suck up the roof insulation.

Controller Mounting Instructions & Installation

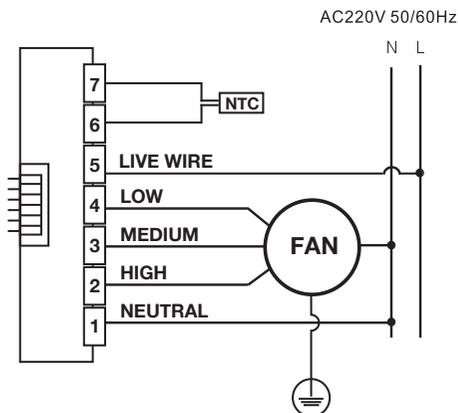
1. First open the controller by pushing in the tabs located on the bottom of the unit and remove the ribbon cable.
2. Next, choose a mounting position on the wall and cut a 60mm long x 65mm high hole in the gib ensuring that the cables can be accessed.
3. Run the Roof Sensor up the wall and mount near the fan.
4. Attach the two gib fixing clips to the bottom plate using the screws provided (as shown).
5. Refer to **Wiring Diagrams** for connections.
6. Push the bottom plate into the precut hole. Tighten the gib fixing clips to secure the unit.
7. Replace the cover by locating the two tabs at the top of the unit and lever the touch screen on as shown. As you close the unit ensure the two plastic tabs at the bottom clip into place.

Note: Do not use excessive force to fit the cover.



Wiring Diagrams

3 Speed



Final Inspection

- Controller is displaying temperatures correctly.
- Controller is configured to match the number of speeds the fan motor has. (see SMARTVENT LITE USER MANUAL – Configuration Setup Menu).
- Fan operates on all speeds. Put fan onto high speed to continue inspection.
- There are no leaks in the ducting.
- Lounge diffuser openings are between 5-10mm and does not whistle.
- Bedroom diffuser openings are between 3-5mm and does not whistle.

Note: Diffusers can be wound open or closed. Diffusers can be opened up slightly more than recommended if they whistle.

Rental Mode

If instructed by the landlord, put the controller into Rental mode so the controller cannot be turned off from the touch screen:

When the controller is on, hold the Mode and Scroll Down button for 10 seconds.

An “h” icon will appear on the bottom right side of the screen. Repeat to exit Rental mode.

Technical Specifications

Roof Temperature Range:	-5°C - 40°C adjustable
Display Resolution:	0.5°
Operating Voltage/Frequency:	220-240 VAC 50Hz
Switching Voltage:	240V AC Max
Switching Current:	3A Max resistive load
Sensing Element:	NTC thermistor
Controller Operating Temperature:	0 to 50°C
Controller Operating Humidity:	5-90% non condensing
Live Output Isolation:	Relay
Output Control:	Relay
Display:	3.5" digital LCD Touchscreen
Approval:	All relevant AS/NZS standards.
EMC Approval:	All relevant AS/NZS standards.

We reserve the right to change specification without prior warning.



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