



PIV L3 Unit

3 STOREY INSTALLATION AND USER GUIDE








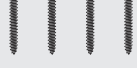
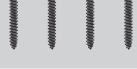

PRE-INSTALLATION CHECKLIST

- 1 Check that the loft has adequate cross flow ventilation.
- 2 Check that all party walls are intact, seek advice if the wall is missing or broken.
- 3 Check that any flue which passes through the loft is not damaged, seek advice if the flue is in a poor state of repair.
- 4 Check for any flued appliance which may draw air from the loft, report to the client.
- 5 Check for any holes in the ceilings which may allow leakage of air to the loft and repair as appropriate.
- 6 Check that the water storage tank is covered.

CONTENTS FOR UNIT

Description	Quantity
VENTILATION UNIT	1 X
DIFFUSER	1 X
FIXING KIT	1 X
UNSWITCHED FUSE SPUR	1 X
200mm FLEXI DUCT	1m

FIXING KIT

Description	Item
8 X FOAM PADS	
4 X WASHERS	
4 X PLASTER BOARD PLUGS	
4 X WOOD SCREWS (10 X 1.5)	
4 X WOOD SCREWS (10 X 3)	
4 X WOOD SCREWS (8 X 1)	
4 X WOOD SCREWS (8 X 1.5)	
ROLL OF INSULATION TAPE	

INSTALLATION INSTRUCTIONS

IMPORTANT

Be sure to have read and understood these instructions before beginning the installation process.

Smoke Detectors

The ventilation unit must be wired through a suitable smoke alarm so that it shuts down when the alarm is activated (see page 7).

Diffuser

The metal supply diffuser must be located a minimum of one metre from a smoke alarm.

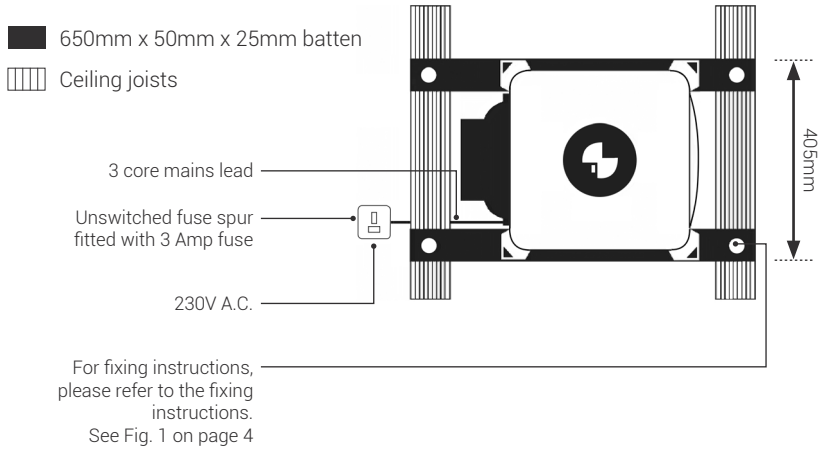
SAFETY AND RECOMMENDATIONS

- All wiring must comply with Building Regulations and the current I.E.E. Wiring Regulations (BS7671) or the equivalent standards for your country. The final installation should be examined and tested by a qualified electrician.
- Precautions must be taken to avoid the back-flow of gases into the dwelling from the open flue of gas or other fuel-burning appliances.
- Make sure the mains supply complies with the rating label for voltage, frequency and phase.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Do not remove or tamper with electronic circuit board. This is not a user function.

INSTALLATION DIAGRAMS

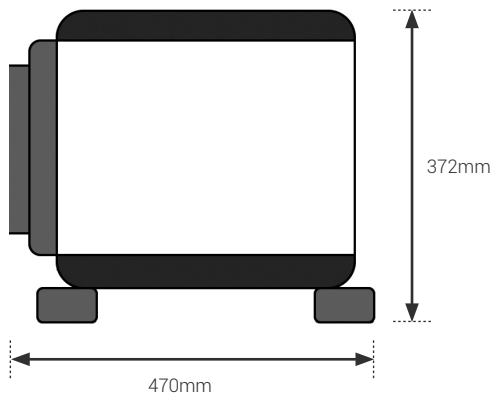
3 STOREY INSTALLATION

Installation diagram for the PIV L3



UNIT DIMENSIONS

Dimensions of the PIV L3 - 470 x 405 x 372mm



INSTALLATION INSTRUCTIONS

FIRST STAGE

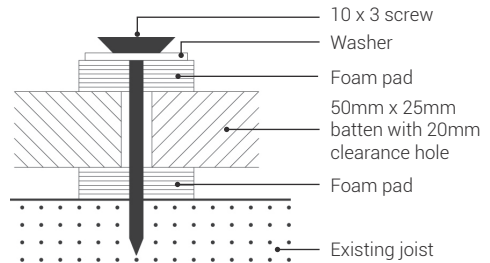
Determine the position of the fire diffuser. It must be located a minimum of one metre from a smoke alarm but may be fitted closer than one metre from a wall or other obstructions if required. Position a dustsheet beneath the site you have chosen for cutting the hole for the diffuser. Protect your lungs with a mask. Enter the loft space with the unit and check there are no obstructions to your chosen position for the diffuser.

Cut an appropriately sized hole using the diffuser spigot as a template.

SECOND STAGE

Position the unit on 50mm x 25mm wooden battens (not supplied) laid across the joists or raised platform if the insulation is thicker than the joists so that the ducting between the unit and the diffuser is not impeded. Lightly screw the drilled battens to the joist through the foam mounts and metal washer provided. Fit the ducting to the unit spigot using half of the tape provided.

Fig.1 Fixing Instructions

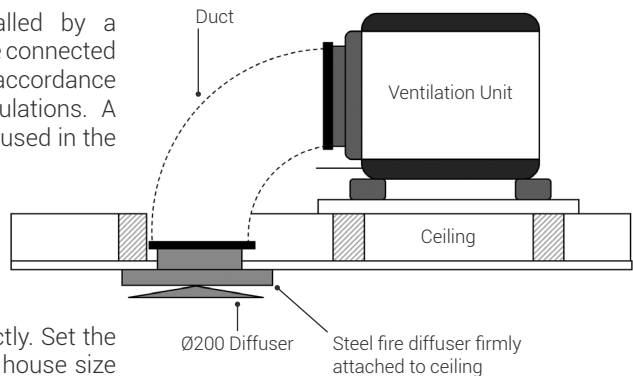


THIRD STAGE

Push ducting through the hole in the ceiling. Return to the hallway and connect the ducting onto the neck of the diffuser. Secure the duct to the spigot of the diffuser using the other half the tape supplied. Fix the diffuser in position using plasterboard plugs and the screws provided.

FOURTH STAGE

The unit must only be installed by a competent person and should be connected to an electrical supply in accordance with the current electrical regulations. A disconnection device should be used in the fixed wiring.



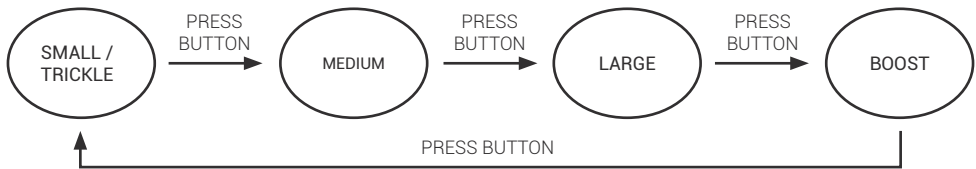
FIFTH STAGE

Check the unit is working correctly. Set the unit's controls according to the house size and check that the filters are securely in place. For maximum airflow set the diffuser fully open.

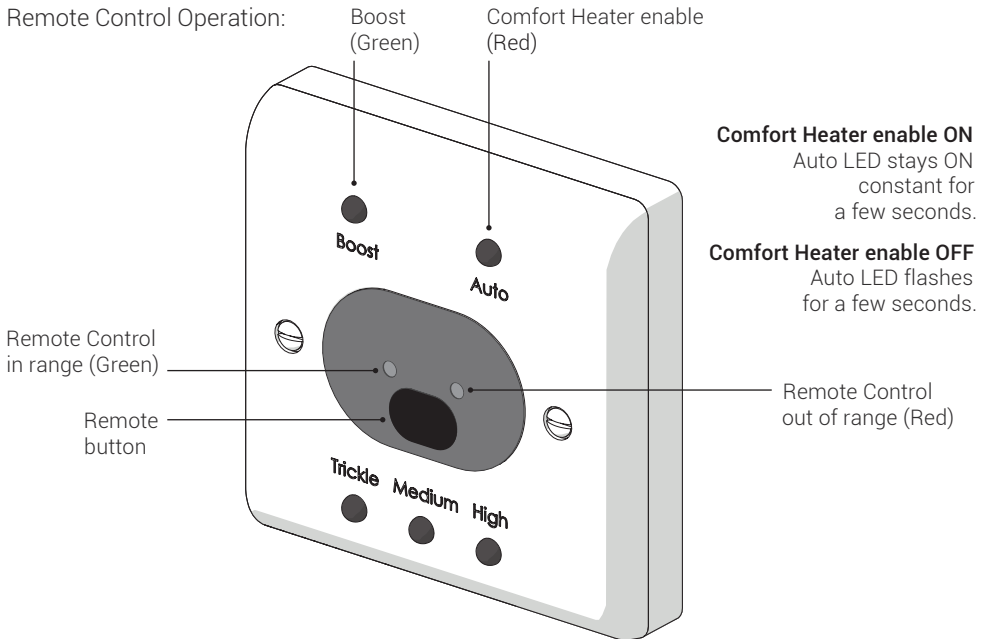
INSTALLATION INSTRUCTIONS

SIXTH STAGE - Method of Operation

On Unit Control: Adjust the settings on the top of the unit by pressing the house setting button. By pressing the button, the correct ventilation rate for the size of the house can be selected i.e. if the unit is on SMALL / TRICKLE and the button is pressed, the unit will then switch to MEDIUM. Similarly, if the unit is on BOOST and the button is pressed, the unit will then switch to SMALL / TRICKLE.



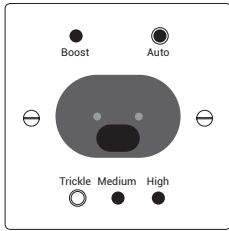
Remote Control Operation:



To pair additional remote control switches:




1. Turn the unit OFF at the isolation point.
2. Restore power; for 20 seconds from restart the unit will be in pairing mode.
3. Press the remote button once within the 20 seconds and the control will pair to the unit.
4. Successful pairing is indicated by a green light on the control.

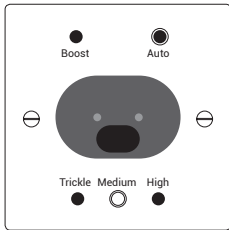
Note: When the battery needs replacing, unscrew the front cover. The battery is located on the back of the cover. Battery type - 3V Lithium, CR2032.



On commissioning the unit will default to the trickle flow rate with comfort heater enable ON

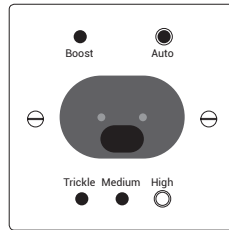
LED Colours

- Constant Red 
- Flashing Red 
- Constant Green 



Press button once, to indicate current fan speed and comfort heater status. LEDs stay on constant for a few seconds

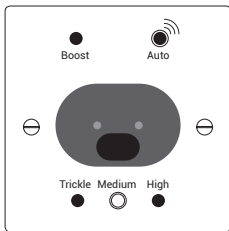
To change speed setting



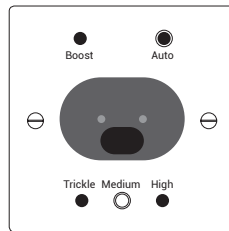
Next press moves the unit to the next speed and so on. When the speed is chosen the LED remains on for a few seconds



For comfort heater enable/disable



Press button for five seconds turns comfort heater enable off. LED will flash red for a few seconds



Press button for five seconds turns comfort heater enable ON. LED will show constant red for a few seconds

Note: If the two LEDs situated just above the remote button flash alternately red and green (when it is pressed) the control may be out of range.

SEVENTH STAGE - Installation Checks

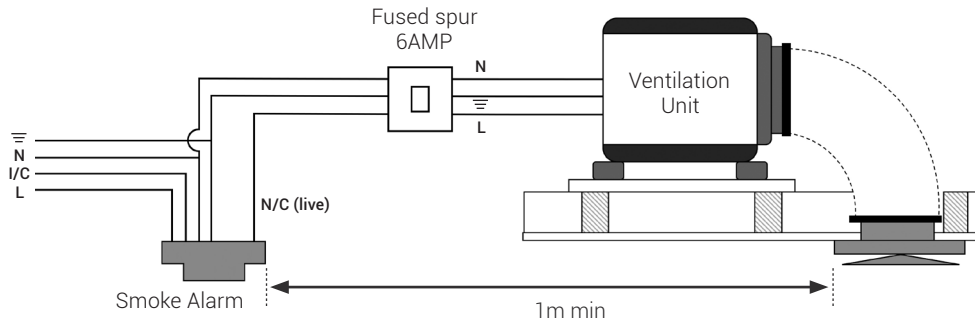
The smoke alarm should be checked at installation to ensure proper function. In the case of a fire, the system should be thoroughly inspected.

INSTALLATION INSTRUCTIONS

Wiring into Smoke Alarm

The 3 storey PIV unit **MUST** be wired into a smoke alarm to switch off on detection of smoke.

The unit can be wired into an existing smoke alarm. Check compatibility with smoke alarm manufacturer. Alternatively a 1AC SMOKEALARM can be installed into the unit itself.*



Ø200mm steel fire diffuser

- ≡ - Earth
- N - Neutral
- L - Live
- I/C - Interconnect
(depending on type of smoke alarm used)

*Must be wired in by a qualified electrician.

USER GUIDE FOR RESIDENT

USER GUIDE

About your PIV L3

DO YOU KNOW WHAT'S GOING ON IN YOUR OWN HOME?



MOISTURE

The typical household creates around 100 pints per week - from showers, baths, cooking etc.



CHEMICAL EMISSIONS

From everyday household furnishings, building products etc.



FUMES

From tobacco products, exhaust gases etc.



DUST

From furniture, carpets, bedding etc.

= Poor Air Quality = Condensation, Damp & Mould

THE CAUSE OF CONDENSATION, DAMP AND MOULD

In a dwelling of 4 people, each will contribute approximately 4 pints of moisture per day – through showers, boiling kettles, cooking etc totalling over 100 pints of liquid per week.

Other airborne contaminants which exist in a typical dwelling like dust, tobacco products, exhaust gases – even chemical emissions from furnishing and building products further deteriorate air quality.

In older, less energy efficient dwellings, there is a natural escape for this hot, damp problem air – through ill-fitting windows and doors, uncarpeted floorboards, lofts without insulation and so forth.

Improved building features such as cavity wall insulation, double-glazing and draft proofing prohibit 'natural ventilation'. Stale, humid air is trapped – increasing the condensation problem in the dwelling.

The Benefits

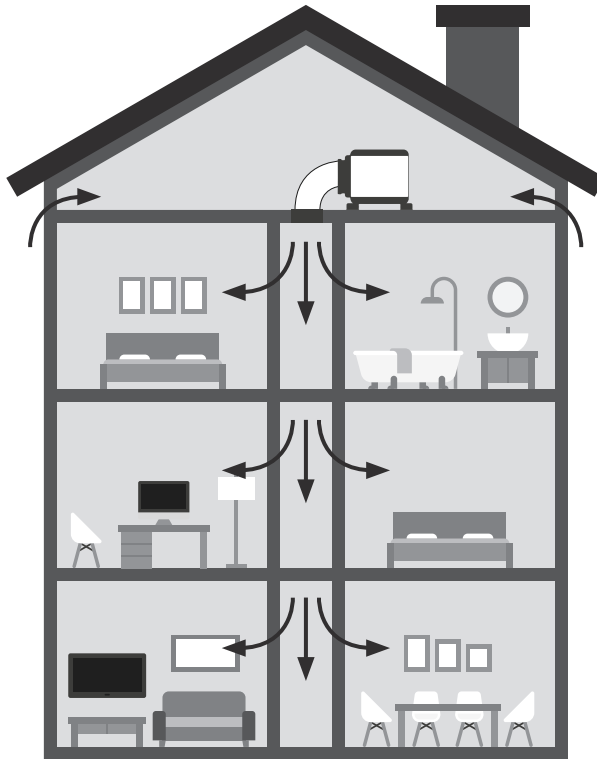
Say goodbye to condensation & mould

- Whole house ventilation
- Improved air quality
- Musty odours removed
- Streaming windows stopped
- Condensation control
- Enhanced heat distribution
- Benefits allergy and asthma sufferers

How does my PIV L3 work?

The unit works by supplying fresh, filtered air throughout the home to transform a stagnant and stale atmosphere into a fresh, healthy and condensation-free environment.

The unit delivers air into a home via a single input, usually located in a central landing.



How does my PIV L3 help?

It prevents the build-up of moisture in the house, controlling steam/condensation from bathing and cooking to prevent the formation of black mould on walls, behind cupboards etc. It will also help to stop dampness and musty smells caused by poor ventilation.

USER GUIDE

About your PIV L3

Energy Saving Benefits

The unit will help you to save energy in the following ways:

Minimal Energy Consumption

- ✔ Using the latest technology, the unit is powered by ultra-low watt motors to achieve low running costs.

Solar Gain

- The unit takes maximum advantage of the benefits from solar gain within the loft space.
- ✔ This is the natural accumulation of heat from the sun on bright days. Temperatures in the loft are on average 3°C higher than outside, which results in a relative saving of around 150 Watts per day in an average modern family home. This equates to approximately 10% of annual heating costs.

Heat Distribution

- ✔ Warm air accumulates at ceiling level. This air can be up to 7°C higher than the internal air at ground level. By introducing an air supply from the loft space, the unit helps to redistribute heat around the home to further reduce heating costs.

No need to open windows

- ✔ To reduce humidity and condensation, people often have to open windows. This can lead to a significant energy loss, particularly in the winter period. The unit provides fresh, filtered air to the home and reduces humidity without the need to open windows, saving energy and heat loss.

Health Benefits:

- ✔ Reduces mould spores, a trigger for respiratory problems and allergies.
- ✔ Reduces house dust mite populations by lowering humidity levels - a main trigger for asthma and allergies.

How do I control my PIV L3?

The unit will operate continuously, 24 hours a day. It is important that the unit is not turned off.

The flow rate of the unit will be set at the appropriate level for your home during installation.

With the remote control switch you can change the unit flow rate/speed at any time at the push of a button. You can also use it to enable or disable the comfort heater (see pages 5-6 for operation instructions).

What features does my PIV L3 have?

The intelligent comfort heater is designed to temper the air during periods of low external temperature. It is capable of holding incoming air temperature accurately at 10°C. With the function enabled, the comfort heater may be on 10% of the time, depending on the fan speed setting and only activates at loft temperature of 10°C or below.

The unit has an automatic increased airflow setting. This function increases airflow rates per setting by 10% to deliver additional air into the property at temperature above 19°C. At temperatures above 25°C the unit will go into standby mode to prevent hot air being delivered into the dwelling.

Maintenance

The unit has been subjected to rigorous testing and are constructed from durable materials. There should be no requirement for any maintenance within the five year period.

At the five year service, the filter located on the unit must be replaced to ensure maximum efficiency of the unit. The filter is mounted around the unit with velcro, simply pull off and replace.

How much does my PIV L3 cost to run?

The unit is very energy efficient. On a constant medium setting with the comfort heater enabled, the heater will be ON around 10% of the time. With the comfort heater disabled the unit will cost less than £6* a year.

*Based on an average electricity unit price of 15p.
Costs will vary depending on atmospheric conditions and unit settings.

Helpful hints and tips

Keeping your home condensation free:

- Try to keep the house as warm as possible for as long as possible
- Do not dry clothes over radiators
- Vent your tumble dryer outside
- Do not use paraffin / Calor gas type heating

Energy bills:

- To minimise energy bills you may need to adjust the central heating down if the diffuser is in the same room as your thermostat.

WARRANTY CONDITIONS AND EXCLUSIONS

The PIV L3 is covered by a 5 year warranty.

Do not turn your unit off. It is important that the unit runs continuously. Your warranty covers any defect or break down that arises due to faulty materials or construction.

Terms of Warranty

- The system must be correctly installed and operated according to the instructions contained in this guide.
- Periodic cleaning and maintenance must be carried out by a technically competent person.
- The warranty will be rendered invalid if the unit is turned off. Turning the unit off can damage it.
- The warranty does not cover accidental damage, misuse or abuse.
- The warranty is in addition to your statutory or legal rights.
- The warranty will only be honoured from approved suppliers.





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Please read carefully to ensure simple
installation and a long trouble free life for
the user.

AFTER INSTALLING THIS FAN PLEASE PASS ON TO END USER
DO NOT THROW AWAY

V1-22.02.18

Due to our policy of continuous
innovation and improvement, the
manufacturer reserves the right to alter
products specification and appearance
without notice.

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