



## PIV L Unit

### INSTALLATION AND USER GUIDE

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## 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.

## FIXING KIT

Description	Item
8 X FOAM PADS	
4 X PENNY 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

If the thermoplastic diffuser cannot be repositioned, up to two sides may be closed off (using the two clip-in blanking plates supplied) to encourage air through the open sides, which must have at least one metre of unobstructed area and be 1.5m from a smoke alarm.

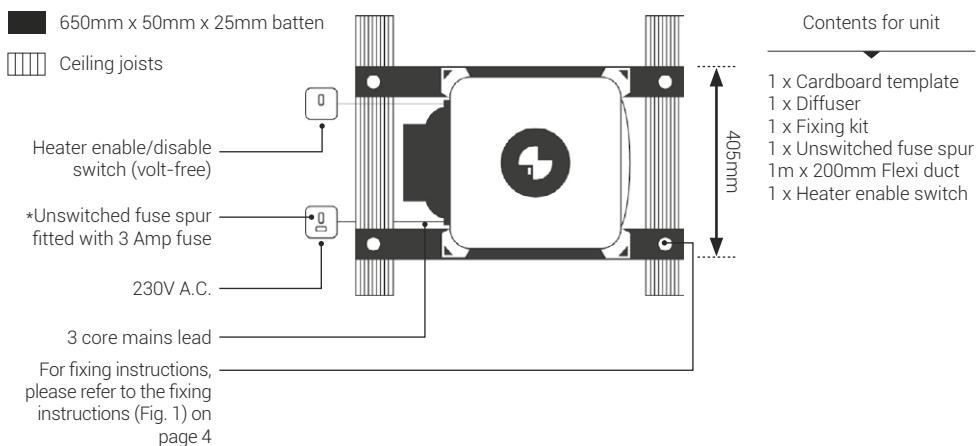
## SAFETY AND RECOMMENDATIONS

- 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

## STANDARD INSTALLATION

Installation diagram for the PIV L

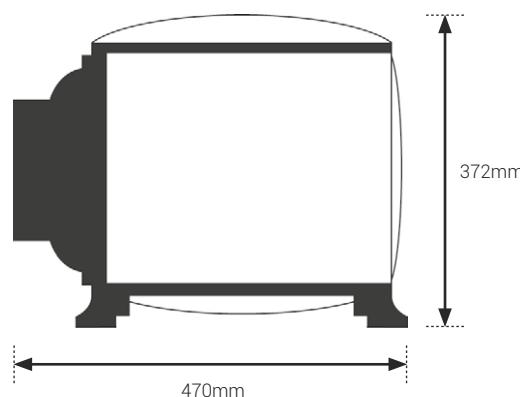


\*Subject to capacity, it is possible to connect the PIV L with heater to a lighting circuit. If in doubt, wire through a ring main supply. This appliance must be earthed.

Ensure the volt-free heater enable/disable switch is fitted in a suitable position for the user.

## UNIT DIMENSIONS

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

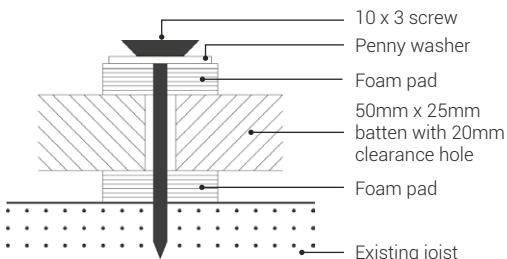


# INSTALLATION INSTRUCTIONS

## FIRST STAGE

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. Using the template supplied mark the hole for the diffuser and cut the 220mm hole in the plasterboard.

Fig.1 Fixing Instructions



## 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 trunking between the unit and the diffuser is not impeded. Lightly screw the drilled battens to the joist through the foam mounts and metal penny washer provided. Fit the trunking to the unit spigot using half of the tape provided.

## THIRD STAGE

Push ducting through the hole in the ceiling. Return to the hallway and connect the ducting onto the neck of the diffuser using rest of the tape provided. Ensure that the diffuser is aligned correctly with the walls of the hallway. Adjust if necessary. Fix the diffuser in position using plasterboard plugs and the screws provided.

## FOURTH STAGE

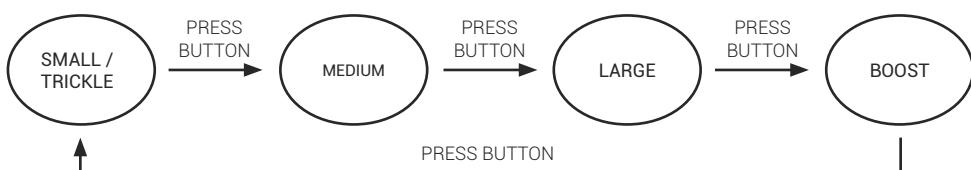
The unit must only be installed by a competent person and should be connected to an electrical supply in accordance with the current electrical regulations. A disconnection device should be used in the fixed wiring.

## 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.

## SIXTH STAGE

Method of operation: 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.



# USER GUIDE FOR RESIDENT

# USER GUIDE

## About your PIV L

### 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.



#### FUMES

From tobacco products, exhaust gases etc.



#### CHEMICAL EMISSIONS

From everyday household furnishings, building products 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

Condensation control

Improved air quality

Enhanced heat distribution

Musty odours removed

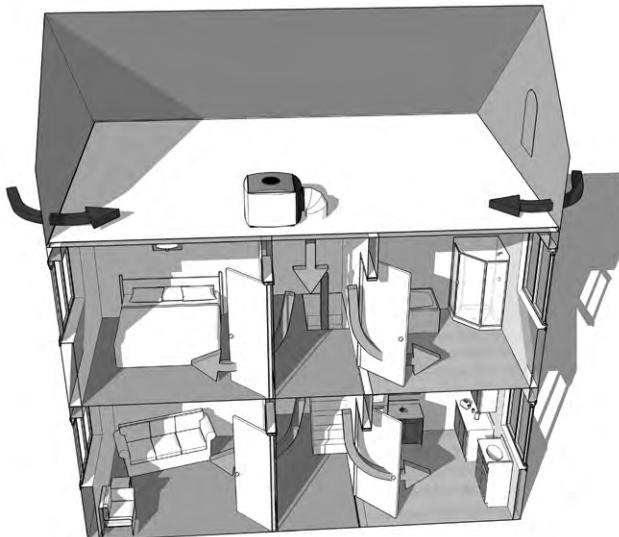
Benefits allergy and asthma sufferers

Streaming windows stopped

## How does my PIV L 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 L help?

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

## Energy Saving Benefits

Your unit also help to save energy in the following ways:

### Minimum 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 during the heating season, significant energy loss occurs by opening windows. 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 L?

The whisper quiet unit operates 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. To enable or disable the heater press the heater enable switch on or off.

## What features does my PIV L have?

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

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 temperatures above 19°C.

## 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 loft 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 L cost to run?

The unit is very energy efficient. On a constant medium setting with the heater enabled, the unit will cost around £30\* a year to run. With the heater disabled the unit will cost less than £6\* a year.

\*Based on an average electricity unit price of 15p.

Costs will vary year on year 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 input is in the same room as your thermostat.

## **WARRANTY CONDITIONS AND EXCLUSIONS**

The PIV L 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 the user guide supplied.
- 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.



894 The Crescent  
Colchester Business Park  
Colchester  
CO4 9YQ

T / (0)1206 713800  
F / (0)1206 543126  
E / [enquiries@titon.co.uk](mailto:enquiries@titon.co.uk)  
W / [www.titon.co.uk/](http://www.titon.co.uk/)



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

AFTER INSTALLING THIS FAN PLEASE PASS ONTO END USER  
**DO NOT THROW AWAY**

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