



Triton PIV Loft

Loft-mounted Positive Input Ventilation Unit to help provide whole home ventilation, condensation dampness control and Radon gas control.

- **Ultra-quiet**
- **Very low running costs**
- **Wide operating range**
- **Various control options**

Application

The **Triton PIV Loft** is a loft-mounted ultra-quiet, low energy, low maintenance, home ventilation unit, designed to help ventilate a home using the well-established 'Positive Input Ventilation' (PIV) principle.

PIV units have been preventing and curing condensation dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas in some properties.

Operation

External air is drawn into the loft by the **Triton PIV Loft** unit. Before it passes through the unit's filter, the air increases in temperature as it utilises otherwise unused energy in the loft from solar gain and heat loss from the home. This increase can be significant but is typically around 3°C warmer than outside air over a heating season. This energy gain is significantly more than the energy used by the unit's motor. The tempered, filtered air is then supplied centrally to the home via the unit's outlet duct and ceiling diffuser.

Integral controls allow the **Triton PIV Loft** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via an integral temperature sensor which optimises the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

Features/Benefits

Discreet – the small white plastic supply air diffuser blends well with any ceiling while distributing the air as required

Low energy – ultra-low quiet fan/motor assembly

Robust and lightweight – the fan casing construction is built to last

Low maintenance – very large G4 grade filter

Integral, multi-functional controls – wide airflow and temperature settings allow the unit to be fine-tuned to suit individual requirements of a home and its occupants. These controls include:

- 8 unit settings to suit size, layout, thermal properties and moisture production in the home
- 'Heat Recovery' or 'Comfort Control' mode function with adjustable trigger temperature setting and adjustable increased/decreased airflow setting
- 'Standby' mode which switches the unit off when the temperature reaches the pre-set standby trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily into the home. e.g. during hot summer days
- 'Override Boost' mode to operate the unit at its maximum airflow by means of a user switch

Suspension kit and joist mounting brackets supplied for use as required.

Warranty – each Triton PIV Loft has a 5 Year Warranty as standard.

Unit Settings

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

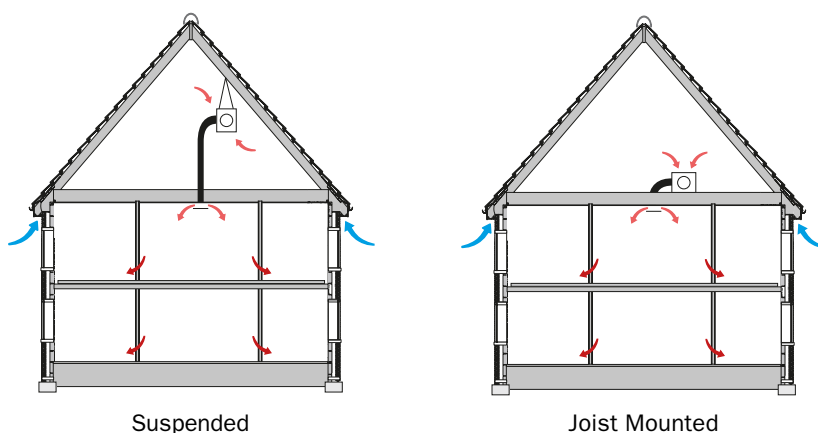
Unit Setting	Normal mode Airflow (L/s)	Power Consumption** (Watts)	Max Filter Change Interval*** (Years)
1	17	2.0	10
2	21	2.5	10
3	25	3.3	9
4	29 (default)	3.8	7.5
5	33	4.1	6.5
6	37	4.6	6
7	41	5.6	5.5
8	45	6.5	5

The power consumption shown is Normal mode. *Filter change interval is indicative. High pollution and use of Override Boost mode will affect filter life.

Optional User Control Switch

PIV B Switch – PIV unit airflow boost enable switch.

Installation Types



Modes

Normal – the unit will run in this mode for the vast majority of its operational time until the unit's integral temperature sensor switches it to 'Heat Recovery', 'Comfort Control' or 'Standby' mode, or the 'Override Boost' mode (if connected via a suitable switch) is activated by the occupants.

Heat Recovery – the unit will increase in speed when the loft temperature reaches the 'Heat Recovery' trigger temperature to supply even more warmed air from the loft into the home.

Comfort Control – this mode can be selected as an alternative to 'Heat Recovery' mode above. In this mode the unit will decrease in speed when the loft temperature reaches the 'Comfort Control' trigger temperature reducing the amount of warm air entering the home.

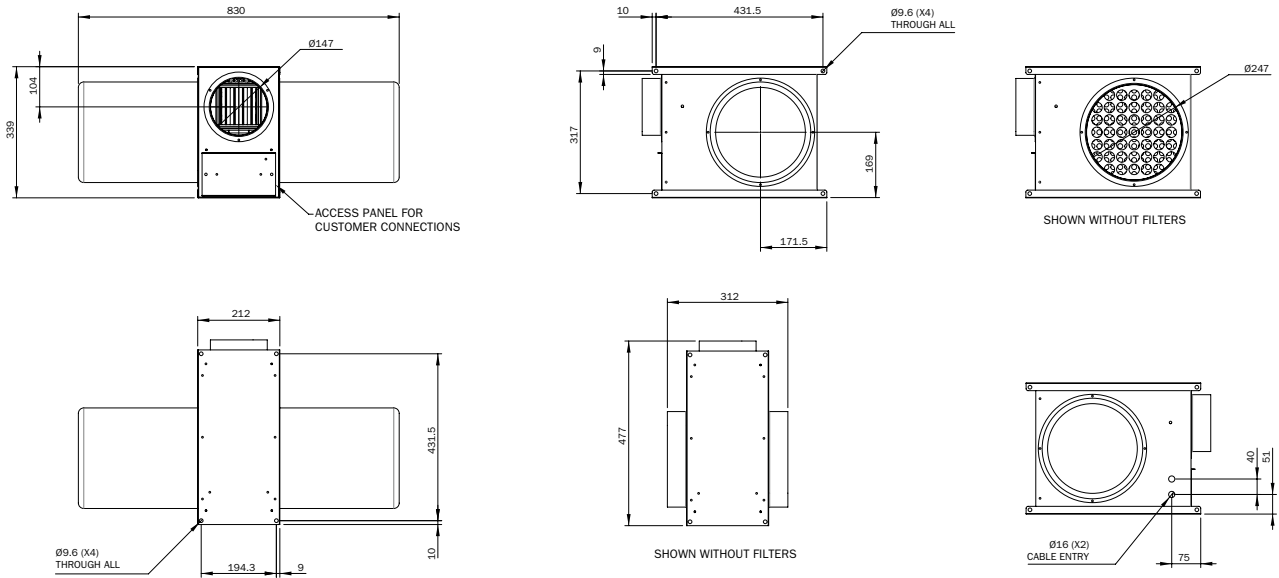
Standby – the unit will essentially switch off when the loft temperature reaches the 'Standby' trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days. This function can be disabled if continuous running is required e.g. radon gas control.

Override Boost

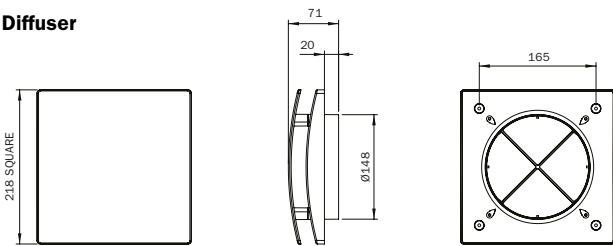
The unit's automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch, hard wired to the relevant connections within the unit.

Dimensional Data

Unit in Loft



Diffuser



Dimensions in mm.

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