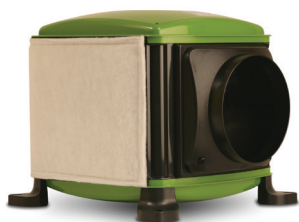


## Technical Specification

# PIV Loft Mounted Unit



### Whole House Positive Input Ventilation



### Product

Whole house positive input ventilation system with optional integral comfort heater for properties with a loft space.

### Application Suitability

Sited in a loft space, the unit delivers filtered air to a property to provide displacement ventilation in order to improve indoor air quality and resolve condensation related problems.

### Standard Functions

**Summer shut down.** At temperatures at or above 25°C the unit will shut down to avoid hot air being delivered into the property.

**Integral 'Intelligent Low Temperature' Comfort Heater.** Designed to temper the air during periods of low external temperatures, it is capable of holding incoming air temperatures accurately at 10°C. The heater element is manufactured in a solid tubular sheath material and not in open wire format. With heater enabled, the heater will be on for around 10% of the time, depending on the fan speed setting, at loft temperatures below 10°C. Maximum unit power usage when the heater is powered is 520W.

**Increased airflow setting.** As standard, units are set to increase airflow rates per setting by 10% to deliver additional air into the property at temperatures above 19°C.

### Performance & Sound Levels

#### Loft Unit + Heater

Incoming Air Temperature (°C)	Fan Speed Setting	Airflow (l/s)	Power Usage (W) <sup>(2)</sup>	Specific Fan Power (SFP) <sup>(4)</sup>	Outlet Noise dBA@3m
<19 <sup>(1)</sup>	Trickle	21	4	0.17	<15
	Medium	29	4	0.15	<15
	Large	38	6	0.16	<15
	Boost	49 <sup>(3)</sup>	9	0.19	15
≥19	Above 19°C the unit increases airflow rates per setting by 10%				
≥25	The unit shuts down at air temperatures at or above 25°C				

BBA Approved airflow & SFP figures

1. The unit performs in 'condensation control mode' at air temperatures below 19°C
2. Power usage with heater disabled.
3. Remote control version (EVL-HW) achieve 58 l/s at boost.
4. SAP Calculations - The system's Specific Fan Power is less than design limits of 0.5 W l/s and can be discounted in SAP calculations due to the source loft air being slightly warmer than the outdoor air.

# Technical Specification

## Controls and Display

- Hours run display - in order that usage of the unit can be confirmed at any time, the control panel will display the total hour run at the push of a button.
- Airflow control - Fan speed is selected with a push button switch, the current speed setting is indicated visually by a coloured LED on the control panel.
- Temperature display – a LED display will indicate when the unit is in normal running mode <19, when the unit is in increased airflow mode ≥19 and when the unit is summer shutdown mode ≥25.

## Installation

This unit shall be installed in strict accordance with BBA guidelines. Full installation guide is enclosed with all products, or sent separately in advance - if require. The system is designed to be installed by a competent general builder, or a contractor, experienced with this type of system.

Provision of an electrical supply and the connection of the unit to the supply should be carried out only by a suitably qualified electrician.

The PIV is supplied as a complete system with a fixing kit, ducting and a thermoplastic diffuser, which is aerodynamically designed to deflect air upwards to reduce draughts.

## Motor

The unit shall incorporate an Ultra low-energy DC motor with sealed for life ball bearings designed to operate continuously at a pre-set 'background' rate.

## Fans

Shall be a 140 X 220mm centre mounted forward curved centrifugal fan.

## Filter

Shall be a synthetic fibre based filter mat to G4 standard in accordance with EN779 standard ratings. The filter should conform to all European Union and US fire classification standards (e.g. DIN 53438-F1 and UL900-class 2) and be self-extinguishing.

## Servicing / Maintenance

Achieved by removal/exchange/replacement of filters and consumable items. The system is constructed from durable materials and there should be no requirement for any maintenance within the five year period. The ducting should not require maintenance unless it is subject to impact damage.

## Guarantee

Covered by an on-going, repeatable 5 year warranty, subject to the completion of specified maintenance.

## Accreditations

The designated product is in conformity with the European Low Voltage Directive 2006/95/EEC and the EMC Directive 2004/108/EC including amendments. Full compliance with the relevant parts of the standards listed below supports the conformity of the designated product with the provisions of the above mentioned EC Directives.

### Low Voltage Directive

EN 60335-1:2002 +A1: 2004, +A11: 2004, + A2: 2006, +A12: 2006, +A13: 2008 +A14: 2010

EN 60335-2-80:2003, +A1: 2004, +A2: 2009 EMC Directive.

EN55014-1:2006 (Emissions).

EN55014-2:1997 +A1:2001 Cat IV (Immunity)

This unit shall be installed in strict accordance with **BBA** guidelines and EnviroVent instructions which are provided with each unit.

### BBA -Certificate No: 03/4043