

THE BENEFITS OF VENTILATION

For Your Home, Health & Lifestyle

What is PIV?

Positive Input Ventilation

PIV is a concept to deliver fresh filtered air into a property at a continuous rate

Did you know?

Hundreds of thousands of homes across the UK are benefiting from having a PIV unit installed.

It is the second most popular method of ventilating homes after intermittent extract fans.

The reason is...

In addition to the 112 pints of moisture that an average family produces per week through cooking, bathing, ironing and breathing, a concoction of other contaminants is present in the air within our homes.

These can have a detrimental effect on the fabric of our homes and the health of our families. With improved building features in our homes such as cavity wall insulation, double glazing and draught proofing, 'natural ventilation' is severely restricted. Stale, contaminated air is trapped causing streaming windows, which ultimately leads to musty smells, dampness and mould growth.



The whole house solution to reduce condensation, mould and indoor contaminants



Mould

Mould spores account for a significant amount of household dust



Dust Mites

You are sharing your bed with thousands of them!



Smoke

5-10% of all lung cancer is linked directly to passive smoking



Radon

Studies have linked exposure to Radon to increased risk of lung cancer



VOC's

Can lead to irritation and headaches as well as risk of neurotoxic effects

The Solution - Say goodbye to condensation and mould for good

The solution is Positive Input Ventilation (PIV) or MIV®. The EnviroVent positive ventilation units are sophisticated whole home ventilation and condensation control units. By drawing in fresh, filtered and clean air from outside, the units gently ventilate the home from a central position on a landing in a house or the central hallway in a flat or bungalow. Moisture laden air is diluted, displaced and replaced to control humidity levels between 45-60%.

This significantly reduces or eliminates surface condensation, the main cause for mould growth. With lower humidity levels, dust mite populations are also substantially reduced to provide a significant improvement in the health of asthma sufferers and general indoor air quality. Positive Input Ventilation is also available for flats and apartments. **Turn to pages 25 - 32 for further information on the solution.**

Phase One

Shortly after the unit is installed the unit gently ventilates the home with fresh air. Air is pushed back down into the house and redistributed. Humidity is diluted and replaced to leave a healthy, fresh and clean environment to live in.



Phase Two

House is now free from contaminants, the unit transforms a stagnant, stale atmosphere into a fresh, healthy and condensation free environment.



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	 PIV Wall Mounted Unit	 PIV Loft Mounted Unit	 PIV Air Source	 MIV® Loft Mounted Unit	 MIV® Air Source
APPLICATION	Wall / Cupboard	Loft Space	Loft Space	Loft Space	Loft Space
SOLAR GAIN	No	Yes	Yes	Yes	Yes
MULTIPLE INPUT FACILITY	No	No	No	Yes	Yes
WARRANTY	5 Years	5 Years	5 Years	5 Years	5 Years
PAGE REFERENCE	33-34	27-29	27-29	30-32	30-32

- ✔ Significantly reduces/eliminates surface condensation
- ✔ Prevents mould growth
- ✔ Reduces house dust mite populations
- ✔ Helps to alleviate the symptoms of some asthma, allergies and other respiratory problems

Relative Humidity

Source: www.scotland.gov.uk

	10	30	50	70	90
Bacteria					
Virus					
Mould / Fungi					
Mites					
Allergy / Asthma					
Tracheal Infection					
Chemical Reactions					
Ozone Production					
% Relative Humidity	10	30	50	70	90

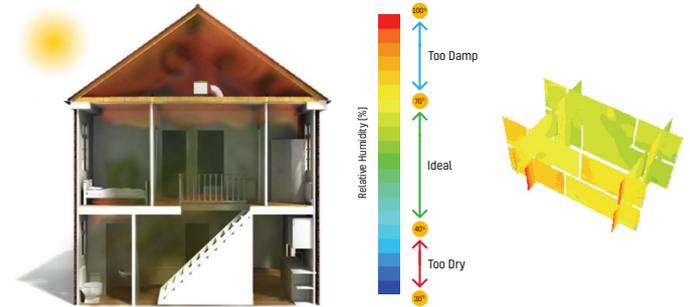
At extremes of low (below 30%) or high (above 70%) relative humidity levels, contaminants and dust mite populations can be exacerbated to trigger illnesses such as, headaches, nausea, fatigue and more serious problems including asthma, allergies and eczema.



Features & Benefits

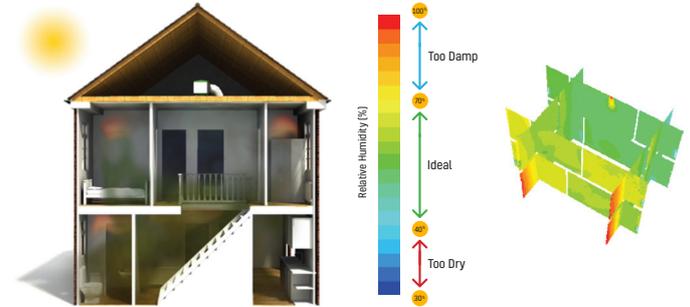
Below is a scientific study using Computational Fluid Dynamics (CFD). This research was carried out by the University of Nottingham School for the Built Environment.

Humidity and temperature after 1 hour



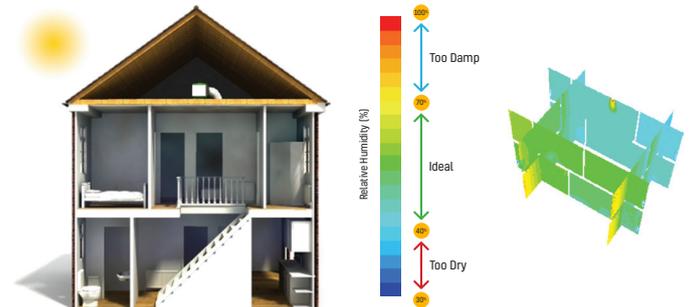
Relative humidity is still between 75-95%

Humidity and temperature after 3 hour



Humidity is diluted, displaced and replaced. Relative humidity is still between 55-65%

Humidity and temperature after 6 hour



A stale atmosphere is transformed into a fresh, healthy environment, free from condensation, mould and other contaminants. RH has fallen to between 45-55%



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envirovent

PIV LOFT MOUNTED UNIT

Whole House Positive Input Ventilation



About

The EnviroVent Loft Mounted Unit is a sophisticated whole house ventilation and condensation control unit for homes with a loft space. The unit gently ventilates the home from a central position on the landing in a house or the central hallway in a bungalow to transform a stagnant and stale atmosphere into a fresh, healthy and condensation free environment.

Features & Benefits

- Superior long life filters
- Ultra Low Watt DC motor technology
- Integral Hours Run Meter (as standard)
- Integral intelligent comfort heater (as standard)
- 5 year warranty
- Quiet operation
- Reduces/eliminates surface condensation
- Eliminates mould
- Stops streaming windows
- Removes musty odours
- Improves air quality
- Enhances heat distribution
- Takes advantage of the benefits of solar gain
- Benefits asthma sufferers
- BBA approved



Energy Saving Benefits

✔ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless DC Motor, the EnviroVent PIV Loft Mounted Unit utilises the latest technology to ensure minimum energy consumption and long term trouble free life.

✔ Solar Gain

The unit takes maximum advantage of the benefits of solar gain from within the loft space - the natural accumulation of heat from the sun on bright days. Temperatures in the loft space 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 almost imperceptible air supply into the dwelling from the loft space, the PIV Loft Mounted Unit helps to redistribute heat around the home and thus reduce space heating costs.

✔ No Need to Open Windows

To reduce humidity and condensation during the heating season, significant energy loss occurs by opening windows. By installing a PIV Loft Mounted Unit and providing fresh filtered air to the home, humid air is displaced without opening windows and thus making significant savings to the occupier.



Health Benefits

With improved building features in our homes, such as cavity wall insulation, double glazing and draught proofing, 'natural ventilation' is prohibited. Stale air is trapped causing streaming windows, which ultimately leads to musty smells, dampness and mould growth. These mould spores are known allergens and become airborne at the slightest disturbance.

The microscopic spores are then inhaled and can trigger respiratory problems such as asthma, dust allergies and hayfever. The PIV Loft Mounted Unit draws fresh air into the dwelling from outside and filters it before being delivered into the property. Moisture-laden air is diluted, displaced and replaced with clean, tempered and filtered air. This eliminates or reduces surface condensation, which causes mould growth, providing a significant improvement in the health of asthma sufferers and general indoor air quality.



The EnviroVent PIV range are all manufactured in Harrogate, UK.



These products are all supplied with five year maintenance free warranties.



EnviroVent offers the widest range of BBA approved PIV systems, allowing current building regulations to be met, for Part F England and Wales, Scottish Building Regulations and Part K Northern Ireland.

Low Life-cycle Costs

With 5 year on-going maintenance free warranties and superior long life filters the unit achieves the lowest life-cycle costing. All repairs, maintenance and component replacement is carried out simply and quickly by exchanging the filters and consumable items. The worn out components are then taken back to the factory to be recycled thus reducing the impact on landfill and saving millions of pounds in replacement costs.

Comfort Heater & Hours Run Meter

The integral comfort heater is designed to temper the incoming air during periods of low external temperatures. A sensor monitors incoming air and slowly pulses the heater to ensure temperatures are held to pre-set minimums. Two independent safety cut-out devices shut down the heater in the event of fan failure. The heater facility is controlled independently from the fan by a conveniently positioned enable/disable switch. For monitoring of operational life and verification of usage, an integral Hours Run Meter is fitted.

Upgrade to PIV Air Source



Beyond traditional input ventilation, the PIV Air Source has the facility to source cooler air from outside the building when the temperature in the loft space rises above 25°C. Detecting the rise in temperature, the unit starts to draw air from atmosphere via a temperature controlled diverter mechanism. This not only provides efficient perception cooling into the property during warmer weather, but also maintains the required level of ventilation continuously throughout the year. This facility is greatly beneficial for properties affected by high levels of Radon.



Inline Models

The PIV Inline is designed specifically for properties with air restricted loft spaces to draw fresh air from outside. Also available with multiple inputs, the MIV® Inline delivers fresh and filtered air to areas of the home where there is a greater requirement for ventilation.



Annual Running Costs

Annual running costs shown with heater DISABLED. All costs are based on an electricity cost of £0.15 per unit (kWh). The calculations must therefore be used as a guide only.

Settings

PIV Loft Mounted Unit

SMALL	MEDIUM
£4.41	£5.70

The PIV Air Source Unit has been calculated at 320 days supplying air through the filter and 45 days sourcing directly from outside taken from average annual temperatures.

PIV Air Source

SMALL	MEDIUM
£4.86	£5.85

Comparisons against other household appliances

PIV Loft Mounted Unit

HOUSEHOLD APPLIANCE	TIME REQUIRED TO CONSUME £5.85 OF ELECTRICITY
FRIDGE FREEZER	20 DAYS
42" TV (VIEWING TIME)	20 DAYS
100W LIGHT BULB	14.6 DAYS
HOME PC	4.7 DAYS
GAMES CONSOLE	4.7 DAYS
IRON	41 HOURS
TUMBLE DRYER	17 HOURS
COLDFILL DISHWASHER	17 LOADS

PIV Air Source

HOUSEHOLD APPLIANCE	TIME REQUIRED TO CONSUME £5.70 OF ELECTRICITY
FRIDGE FREEZER	19.7 DAYS
42" TV (VIEWING TIME)	19.6 DAYS
100W LIGHT BULB	14.3 DAYS
HOME PC	4.6 DAYS
GAMES CONSOLE	4.6 DAYS
IRON	41 HOURS
TUMBLE DRYER	17 HOURS
COLDFILL DISHWASHER	17 LOADS

Technical Specification

Product

Whole house positive input ventilation system for properties with a loft space.

Applications

PIV Loft Mounted Unit

Sited in a loft space, the unit delivers air to the central hallway or landing via a four-way diffuser with purpose made blanking plates to maximise efficiency of airflow and aid in heat distribution from ceiling level. This provides displacement ventilation in order to improve air quality and resolve condensation related problems.

PIV Air Source

The PIV Air Source Unit has the additional facility to draw air from atmosphere during the warmer months of the year when the temperature in the loft space exceeds 25°C. This provides efficient perception cooling into the property and maintains the required level of ventilation continuously throughout the year.

Performance & Sound Levels (as installed figures)

PIV Loft Mounted Unit

Incoming Air Temp. (°C)	Fan Speed Setting	Specific Fan Power (SFP)	Airflow (l/s)	Power Usage (W) (4)	Outlet Noise dB(A) @3m
<19 (1)(2)	Trickle	0.17	21	4	<15
	Medium	0.15	29	4	<15
	Large	0.16	38	6	<15
	Boost	0.19	49	9	15

Remote control versions (EVL-W and EVL-H-W) achieve 58 l/s at boost.

PIV Air Source

Incoming Air Temp. (°C)	Fan Speed Setting	Specific Fan Power (SFP)	Airflow (l/s)	Power Usage (W) (4)	Outlet Noise dB(A) @3m
<19 (1)(2)	Trickle	0.14	22	3	<15
	Medium	0.14	29	4	<15
	Large	0.15	35	5	<15
	Boost	0.18	43	8	15
<25 (3)	Trickle	0.28	28	7.9	-
	Medium	0.26	35	9.2	-
	Large	0.25	44	10.9	-
	Boost	0.27	52	14	-

- ① The unit performs in 'condensation control mode' at air temperatures below 19°C
- ② At above 19°C the unit increases airflow rates per setting by 10%
- ③ The unit performs in 'summer by-pass mode' at air temperatures at or above 25°C
- ④ Power usage with heater disabled

Installation

Full installation guide is enclosed with all products; or sent separately in advance - if required. If installed in dwellings with a floor above 4.5m, EVL-H-W or EVL-W shall be fitted with a fire rated diffuser (contact EnviroVent for specific fire diffuser codes). The unit is pre-wired with a standard length of 230V cable suitable for connection to the mains and a low voltage cable suitable for connection to the auto heater switch.

Construction

ABS plastic body.

Motor

Incorporates the Ultra Low Watt DC motor technology with sealed for life ball bearings designed to operate continuously at a pre-set 'background' rate.

Fan

Is a Ø146mm dual inlet forward curved centrifugal fan.

Filter

Is a synthetic fibre based filter made to ISO coarse 65µ standard in accordance with the ISO 16890 standard, conforming to all European Union and US fire classification standards [e.g. DIN 53438-F1 and UL900-class 2] and be self-extinguishing.



Did you know?

4 people living in a 3 bedroom property can create up to 112 pints of moisture a week from just breathing, cooking, showering and boiling the kettle.



Did you know?

Air Pollution kills 40,000 people in the UK every year.

Servicing / Maintenance

Filter change/inspection is required at 5 years. Various service options are available towards the end of the warranty period. The existing unit may remain in position to ensure minimal disruption. Any old components may be returned for recycling.

Warranty

Covered by a 10 year warranty, subject to the completion of specified maintenance.

Integral 'Intelligent Low Temperature' Comfort Heater

During cold periods, the unit is capable of maintaining the incoming air temperature consistently at 10°C. The integral heater element is manufactured in a solid tubular sheath material.

Accreditations

Conforms to the requirements of the UK Building Regulations and the Technical Standards for Ventilation.

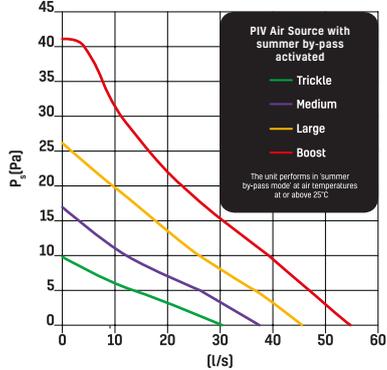
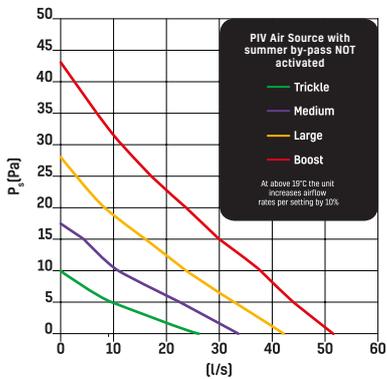
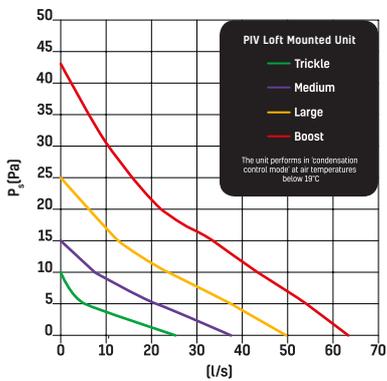
Conforms to requirements of the EC council directives

Relating to Electromagnetic Compatibility and Electrical Safety (LDV and EMC). CE Marked.

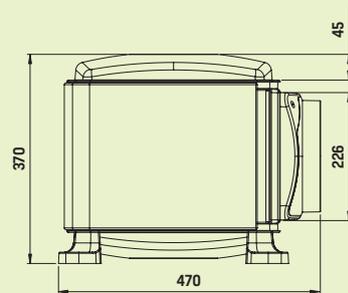
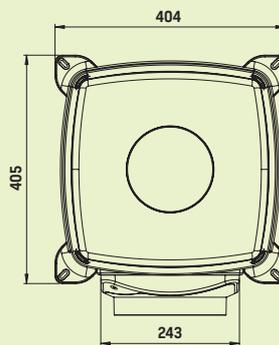
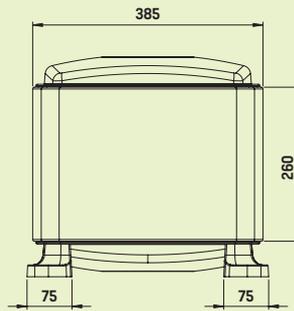
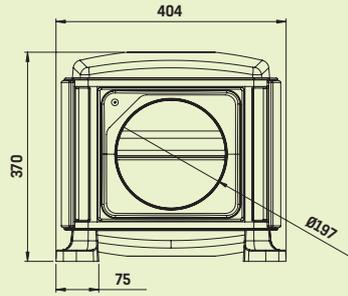
BBA

Models are available to support specification contracts with BBA certification. Please contact us for details.

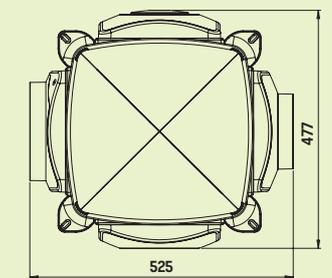
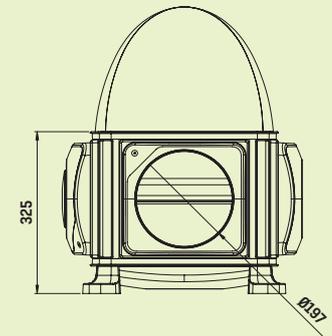
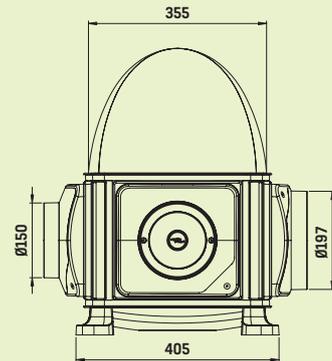
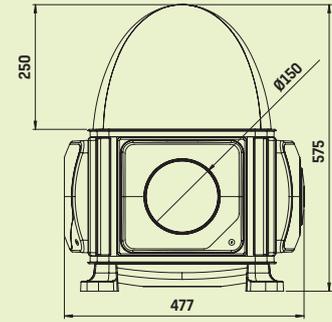
Performance Curves



Dimensions (mm) PIV Loft Mounted Unit



Dimensions (mm) PIV Air Source



Order Codes

EVL-HW-R	PIV Loft Mounted Unit with heater and wireless control
EVL-H-R	PIV Loft Mounted Unit with heater
EVL-HAS-R	PIV Air Source with heater
EVL-HWAS-R	PIV Air Source Unit with heater and wireless control

Order Codes

EVL-H-IN-R	PIV Inline with heater
1ACSMOKEALARM	Smoke alarm for the above units
KIT-PIV-SMOKE-125	Ø125 Kit for 3 floor installation, fire diffuser and ducting
KIT-PIV-SMOKE-150	Ø150 Kit for 3 floor installation, fire diffuser and ducting

Order Codes

KIT-PIV-SMOKE-200	Ø200 Kit for 3 floor installation, fire diffuser and ducting
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MIV® LOFT MOUNTED UNIT

Whole House Multiple Input Ventilation



THE LIFETIME RANGE

About

Building on the principles of the hugely successful and established EnviroVent PIV systems, the MIV® Loft Mounted Unit has been designed and developed to launch a totally new and innovative technology - Multiple Input Ventilation (MIV®).

Features & Benefits

- ▶ Ultra Low Watt DC motor technology
- ▶ Sealed for life ball bearings
- ▶ Loft or external air supply
- ▶ Integral Hours Run Meter (as standard)
- ▶ Integral intelligent comfort heater (as standard)
- ▶ Optional remote controlled boost facility
- ▶ 5 year on-going maintenance free warranties
- ▶ Quiet operation
- ▶ Provides all year round quality filtered air
- ▶ Reduces/eliminates surface condensation
- ▶ Removes musty odours
- ▶ Enhances heat distribution
- ▶ Takes advantage of the benefits of solar gain in the loft space
- ▶ Benefits asthma sufferers by reducing dust mites and mould spores
- ▶ Reduces Radon levels
- ▶ Easy to install



Energy Saving Benefits

✔ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless DC Motor, the MIV® Loft Mounted Unit utilises the latest technology to ensure minimum energy consumption and long term trouble free life.

✔ Solar Gain

The unit takes maximum advantage of the benefits of solar gain from within the loft space - the natural accumulation of heat from the sun on bright days. Temperatures in the loft space 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 almost imperceptible air supply into the dwelling from the loft space, the MIV® Loft Mounted Unit helps to redistribute heat around the home and thus reduce space heating costs.

✔ No Need to Open Windows

To reduce humidity and condensation during the heating season, significant energy loss occurs by opening windows. By installing an MIV® Loft Mounted Unit and providing fresh filtered air to the home humid air is displaced without opening windows and thus making significant savings to the occupier.



How is it Different?

Instead of providing just a single source of fresh air into a property, usually located in a hallway or landing, the MIV® Loft Mounted Unit has the ability to supply fresh, filtered air via multiple inputs into areas with greater requirements for ventilation. Highly efficient, inputs can be situated into or adjacent to rooms affected by increased levels of humidity, such as the kitchen, bathrooms and other wet rooms.

Fresh air inputs can also be located in bedrooms or living spaces that suffer from particularly bad condensation or in the bedroom of an asthma sufferer to reduce the level of humidity and therefore the house dust mite population - a known trigger for allergies and asthma.



Unique Mini Diffuser

Available with the MIV® Loft Mounted Unit is the stylish energy saving diffuser, providing an innovative alternative to standard ceiling vents.



Make it MIV Multi Zone Destratification

Warm air accumulates at ceiling level and is normally lost through windows and extract fans. This air can be up to 7°C higher than the internal air at ground level.

By introducing an almost imperceptible fresh air supply into multiple rooms, the MIV® Loft Mounted Unit redistributes heat around the home by pushing the heat back down and keeping the convection currents moving to reduce space heating costs. By saving only 1 degree of heat this multi-zone destratification may reduce fuel bills by up to 10%.



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Intelligent Remote Control (Optional)

Remote control incorporating five mode settings: trickle, medium, high, boost and auto is available. Auto-mode enables or disables the heater.



Upgrade to MIV® Air Source



Solar Gain & Summer Cooling

The MIV® Air Source takes maximum advantage of the benefits of solar gain from the loft space throughout the year. Solar gain is the natural accumulation of heat from the sun on bright days.

Temperatures in the loft are on average 3°C higher than outside and as the unit draws fresh air from the loft and delivers it into the property, this results in a saving of around 500 Kilowatts of energy per year in an average family home - equating to significant savings in annual heating costs. Going beyond traditional input ventilation, the MIV® Air Source has the facility to source cooler air from outside the building when the temperature in the loft space rises above 25°C.

Detecting the rise in temperature, the unit starts to draw air from atmosphere via a temperature controlled diverter mechanism. This not only provides efficient perception cooling into the property during warmer weather, but also maintains the required level of ventilation continuously throughout the year. This facility is greatly beneficial for properties affected by high levels of Radon.



Annual Running Costs

Annual running costs shown with heater **DISABLED**. All costs are based on an electricity cost of **£0.15 per unit (kWh)**. The calculations must therefore be used as a guide only.

Settings

MIV® Loft Mounted Unit

SMALL	MEDIUM
£4.86	£5.85

The MIV® Air Source Unit has been calculated at 320 days supplying air through the filter and 45 days sourcing directly from outside taken from average annual temperatures.

MIV® Air Source

SMALL	MEDIUM
£4.30	£5.71

Comparisons against other household appliances

MIV® Loft Mounted Unit

HOUSEHOLD APPLIANCE	TIME REQUIRED TO CONSUME £5.85 OF ELECTRICITY
FRIDGE FREEZER	20 DAYS
42" TV (VIEWING TIME)	20 DAYS
100W LIGHT BULB	14.6 DAYS
HOME PC	4.7 DAYS
GAMES CONSOLE	4.7 DAYS
IRON	41 HOURS
TUMBLE DRYER	17 HOURS
COLD FILL DISHWASHER	17 LOADS

MIV® Air Source

HOUSEHOLD APPLIANCE	TIME REQUIRED TO CONSUME £5.71 OF ELECTRICITY
FRIDGE FREEZER	19.7 DAYS
42" TV (VIEWING TIME)	19.6 DAYS
100W LIGHT BULB	14.3 DAYS
HOME PC	4.6 DAYS
GAMES CONSOLE	4.6 DAYS
IRON	41 HOURS
TUMBLE DRYER	17 HOURS
COLD FILL DISHWASHER	17 LOADS

Technical Specification

Product

Whole house multiple input ventilation system for properties with a loft space.

Applications

MIV® Loft Mounted Unit

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

MIV® Air Source

During warmer months of the year when the temperature in the loft space exceeds 25°C, the MIV® Air Source has the additional facility to draw air from atmosphere via a temperature controlled diverter mechanism. This provides efficient perception cooling into the property and maintains the required level of ventilation continuously throughout the year.

Performance & Sound Levels (as installed figures)

MIV® Loft Mounted Unit

Incoming Air Temp. [°C]	Fan Speed Setting	Specific Fan Power (SFP)	Airflow [l/s]	Power Usage [W] (4)	Outlet Noise dB(A) @3m
<19 (1) (2)	Trickle	0.24	15	4	<15
	Medium	0.22	20	4	<15
	Large	0.21	26	6	<15
	Boost	0.25	34	9	<15

MIV® Air Source

Incoming Air Temp. [°C]	Fan Speed Setting	Specific Fan Power (SFP)	Airflow [l/s]	Power Usage [W] (4)	Outlet Noise dB(A) @3m
<19 (1) (2)	Trickle	0.16	19	3	<15
	Medium	0.18	24	4	<15
	Large	0.23	30	7	<15
	Boost	0.31	36	11	15
<25 (3)	Trickle	0.28	26	7.3	-
	Medium	0.31	32	9.8	-
	Large	0.33	38	12.6	-
	Boost	0.36	44	15.7	-

- The unit performs in 'condensation control mode' at air temperatures below 19°C
- At above 19°C the unit increases airflow rates per setting by 10%
- The unit performs in 'summer by-pass mode' at air temperatures at or above 25°C
- Power usage with heater disabled

Installation

Full installation guide is enclosed with all products; or sent separately in advance - if required. The unit is pre-wired with a standard length of 230V cable suitable for connection to the mains and a low voltage cable suitable for connection to the auto heater switch.

Construction

ABS plastic body.

Motor

Incorporates the Ultra Low Watt DC motor technology with sealed for life ball bearings designed to operate continuously at a pre-set 'background' rate.

Fan

Is a Ø146mm dual inlet forward curved centrifugal fan.

Filter

Is a synthetic fibre based filter made to ISO coarse 65% 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

Filter change/inspection is required at 5 years. Various service options are available towards the end of the warranty period. The existing unit may



The EnviroVent PIV range are all manufactured in Harrogate, UK.



Did you know?

According to the World Health Organisation, 4.3 million deaths worldwide were estimated to be caused by household air pollution.



Did you know?

Indoor air may contain over 900 chemicals, particles and biological materials with potential health effects.

remain in position to ensure minimal disruption. Any old components may be returned for recycling.

Warranty

Covered by a 5 year warranty, subject to the completion of specified maintenance.

Integral 'Intelligent Low Temperature' Comfort Heater

The unit is capable of maintaining the incoming air temperature consistently around 10°C. The integral heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

Conforms to the requirements of the UK Building Regulations and the Technical Standards for Ventilation.

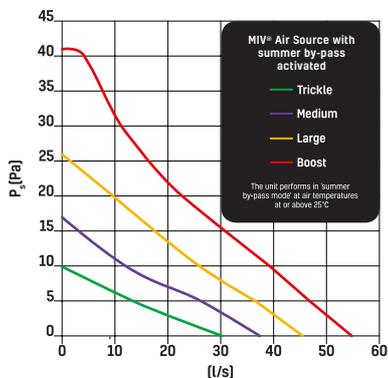
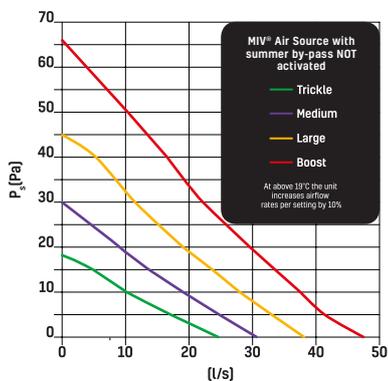
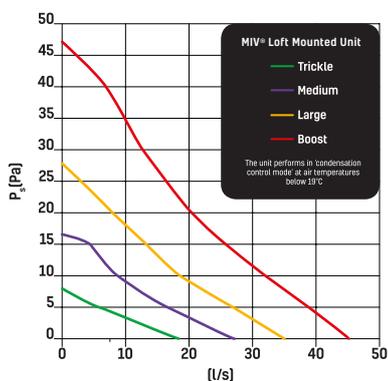
Conforms to requirements of the EC council directives

Relating to Electromagnetic Compatibility and Electrical Safety (LDV and EMC). CE Marked.

BBA

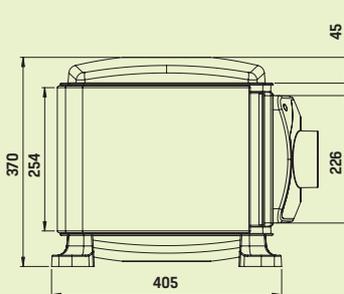
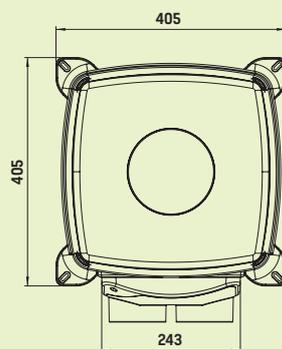
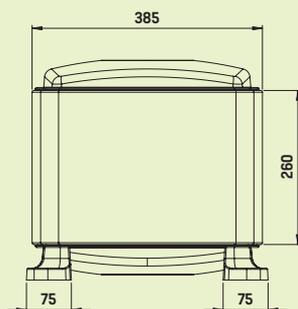
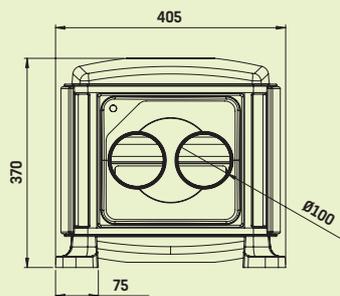
Models are available to support specification contracts with BBA certification. Please contact us for details.

Performance Curves



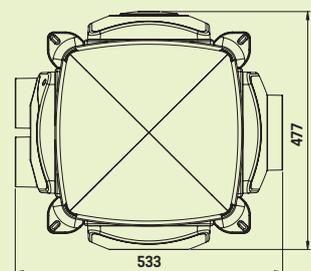
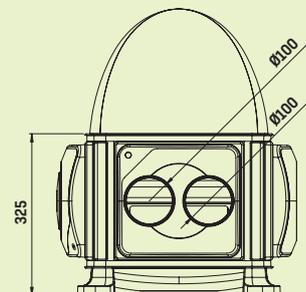
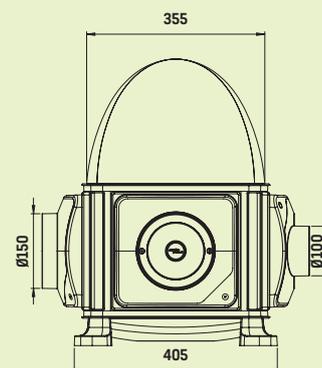
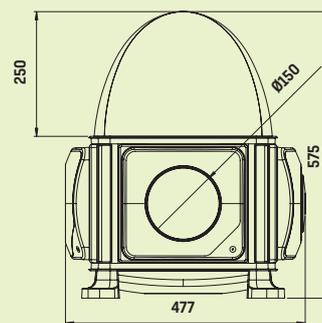
Dimensions (mm)

MIV® Loft Mounted Unit



Dimensions (mm)

MIV® Air Source



Order Codes

EVL-TS-R	MIV® Loft Mounted Unit
EVL-HTS-R	MIV® Loft Mounted Unit with heater
MIVAS-H-R	MIV® Air Source with heater
MIVAS-HW-R	MIV® Air Source with heater and wireless control

Order Codes

EVL-H-IN-TS-R	MIV® InLine with heater
1ACSMOKEALARM	Smoke alarm for the above units
KIT-MIV-SMOKE-125	Ø125 Kit for 3 floor installation, fire diffuser and ducting

envirovent

WALL MOUNTED UNIT

Whole House Positive Input Ventilation Unit For Flats



About

The EnviroVent Wall Mounted Unit is designed to provide whole home ventilation and eradicate condensation from homes without a loft space. Energy efficient, the unit introduces an almost imperceptible air supply throughout the living space to transform a stagnant and stale atmosphere into a fresh, healthy and condensation free environment.

Features & Benefits

- Ultra Low Watt DC motor technology
- Integral Hours Run Meter (as standard)
- Integral Pre-Heater (as standard)
- 5 year warranty
- Reduces/eliminates surface condensation
- Quiet operation
- Eliminates mould
- Stops streaming windows
- Removes musty odours
- Improves air quality
- Enhances heat distribution
- Benefits asthma sufferers
- BBA approved
- Expert fitting staff



Energy Saving Benefits

✔ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless Motor, the EnviroVent Wall Mounted Unit utilises the latest technology to ensure minimum energy consumption and long term trouble free life.

✔ 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 almost imperceptible air supply into the dwelling, the EnviroVent Wall Mounted Unit helps to redistribute heat around the home and thus reduce space heating costs.

✔ No Need to Open Windows

To reduce humidity and condensation during the heating season, significant energy loss occurs by opening windows. By installing an EnviroVent Wall Mounted Unit and providing fresh filtered air into the home, humid air is displaced without the need to open any windows, thus making significant savings to the occupier.

✔ Low Life-Cycle Costs

With 5 year on-going warranties and superior long life filters the unit achieves the lowest life-cycle costings. Once installed, there is no requirement for any maintenance within the first two years, after which the air quality filter should be cleaned or replaced.

All other component replacement is carried out simply and quickly by exchanging the consumable items. The worn out components are then taken back to the factory to be recycled thus reducing the impact on landfill and saving millions of pounds in replacement costs.



✔ Comfort Heater & Hours Run Meter

The integral comfort heater is designed to temper the incoming air during periods of low external temperatures. A sensor monitors incoming air and pulses the heater to ensure temperatures are held to pre-set minimums.

Two independent safety cut-out devices shut down the heater in the event of fan failure. The heater facility is controlled independently from the fan by a conveniently positioned enable/disable switch. For monitoring of operational life and verification of usage, an integral Hours Run Meter is fitted.

Health Benefits

With improved building features in our homes, such as cavity wall insulation, double glazing and draught proofing, 'natural ventilation' is prohibited. Stale air is trapped causing streaming windows, which ultimately leads to musty smells, dampness and mould growth. These mould spores are known allergens and become airborne at the slightest disturbance. The microscopic spores are then inhaled and can trigger respiratory problems such as asthma, dust allergies and hayfever. The EnviroVent Wall Mounted Unit draws fresh air into the dwelling from outside and filters it before being delivered into the property. Moisture laden air is diluted, displaced and replaced with clean, tempered and filtered air. This eliminates or reduces surface condensation, which causes mould growth.

With lower humidity levels, dust mite populations are also substantially reduced, which can provide a significant improvement in reducing the one of the major triggers for asthma sufferers.



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Annual Running Costs

Annual running costs shown with heater **DISABLED**. All costs are based on an electricity cost of £0.15 per unit (kWh). The calculations must therefore be used as a guide only.

Settings

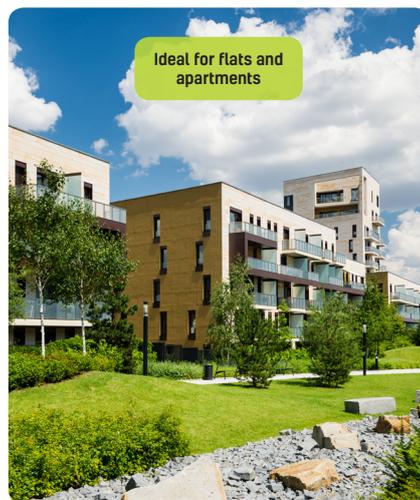
SMALL	MEDIUM
£4.47	£5.00

Comparisons against other household appliances

HOUSEHOLD APPLIANCE	TIME REQUIRED TO CONSUME £5.00 OF ELECTRICITY
FRIDGE FREEZER	17 DAYS
42" TV (VIEWING TIME)	17 DAYS
100W LIGHT BULB	12.5 DAYS
HOME PC	4 DAYS
GAMES CONSOLE	4 DAYS
IRON	41 HOURS
TUMBLE DRYER	17 HOURS
COLDFILL DISHWASHER	15 LOADS

Options & Ancillaries

ROUND RIGID DUCTING - Ø100	1RD 100 X 2M	Unit comes with a louvre grille as standard
LOUVRE GRILLE - Ø100	1MF FIX LOUV	
BOX PROFILE	1AC BP	
DUCT INSULATION SLEEVE - Ø100	1RD SLINS 100 X 2M	



Technical Specification

Product

Whole house positive input ventilation system for apartments and flats.

Applications

Sited on a suitable wall, the EnviroVent Wall Mounted Unit delivers air to the central hallway to provide displacement ventilation in order to improve air quality and resolve condensation related problems.

Performance & Sound Levels (as installed figures)

Incoming Air Temp (°C)	Fan Speed Setting	Specific Fan Power (SFP)	Airflow (l/s)	Power Usage (W)	Outlet Noise dB(A) @3m
<19 (1)	Trickle	0.39	9	3.4	<15
	Medium	0.33	11	3.8	<15
	Large	0.29	17	4.8	17
	Boost	0.30	20	6.1	20.3
<19 (2)	Trickle	0.37	10	3.6	-
	Medium	0.33	14	4.4	-
	Large	0.29	19	5.4	-
	Boost	0.32	23	7.4	-

- ① The unit performs in 'condensation control mode' at air temperatures below 19°C
- ② At above 19°C the unit increases airflow rates per setting by 10%

Installation

Full installation guide is enclosed with all products; or sent separately in advance - if required

Motor

Incorporates the Ultra Low Watt DC motor technology with sealed for life ball bearings designed to operate continuously at a pre-set 'background' rate.

Fan

Is a 140 x 220mm centre mounted forward curved centrifugal fan.

Filter

Is fitted with an integral insect filter.

Servicing / Maintenance

Achieved by removal/exchange/replacement of filters and consumable items. There should be a filter exchange after 24-36 months.

Warranty

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

Integral 'Intelligent Low Temperature' Comfort Heater

The unit is capable of maintaining the incoming air temperature consistently around 10°C. The integral heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

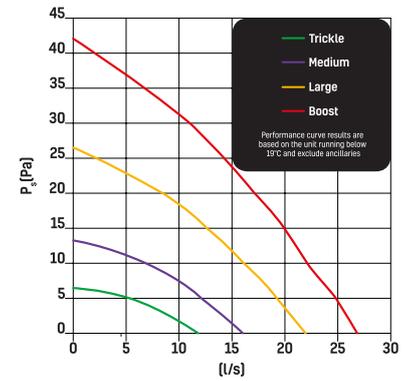
Conforms to the requirements of the UK Building Regulations and the Technical Standards for Ventilation
Conforms to requirements of the EC council directives Relating to Electromagnetic Compatibility and Electrical Safety (LDV and EMC). CE Marked.

BBA

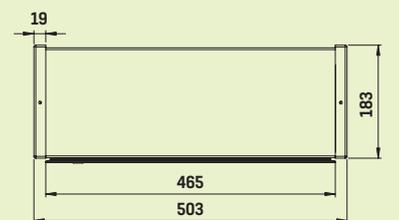
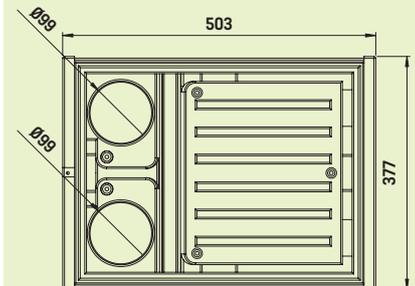
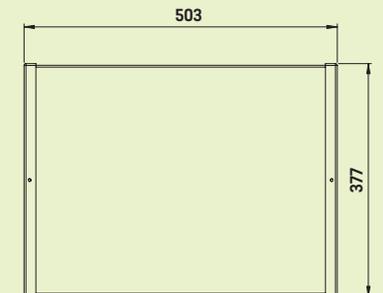
Certificate No: 03/4043



Performance Curves



Dimensions (mm) Wall Mounted Unit



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Order Code

EVF-H	Wall Loft Mounted Unit with heater
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