



envirovent[®]
Because Air Matters

Positive Input Ventilation Systems



Lifetime Range[®]



The Benefits of 'Input' Ventilation

For your home, health and 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 benefitting from having a PIV unit installed

→ It's the second most popular method of ventilating homes after 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.



*Depending on local conditions

The solution to reducing 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!



Tobacco Smoke

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



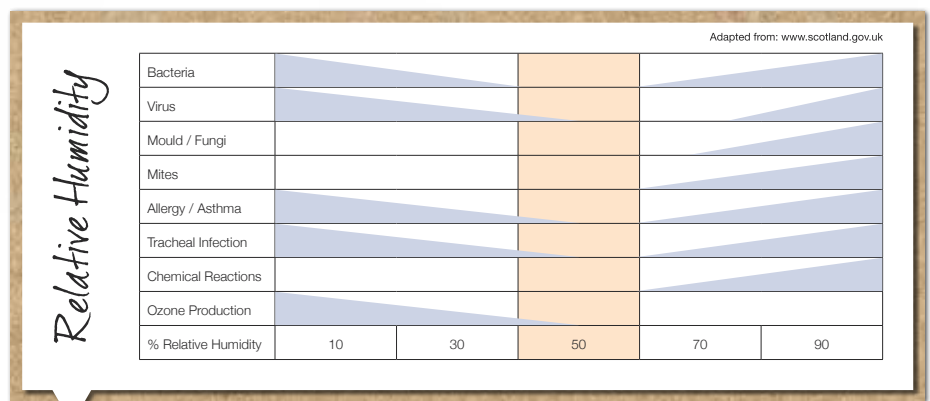
Radon

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



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.

The Solution

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 09 and 10 for further information.



Scan the QR code to see how these products can improve indoor air quality, solving condensation and mould problems.



The Lifetime Range® has been designed to achieve the lowest maintenance, energy costs and life-cycle costs.



Did you know that there are up to 900 chemicals in indoor air?
Scientific Committee on Health and Environmental Risks (SCHER).



Which product is right for me?



	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
Summer Cooling	No	No	Yes	No	Yes
Multiple Input Facility	No	No	No	Yes	Yes
Guarantee	5 Years	5 Years	5 Years	5 Years	5 Years
Page Reference	9-10	3-5	3-5	6-8	6-8

- ✔ 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

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

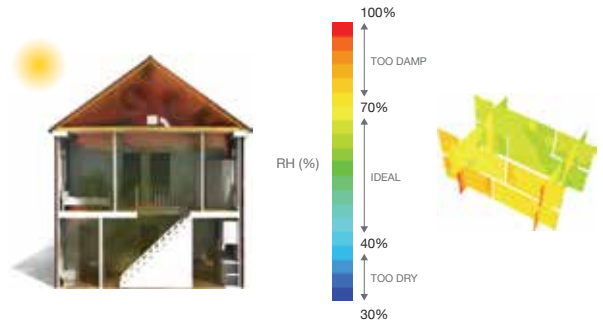
House is now free from contaminants, the unit transforms a stagnant, stale atmosphere into a fresh, healthy and condensation free environment.



PIV Study ✔

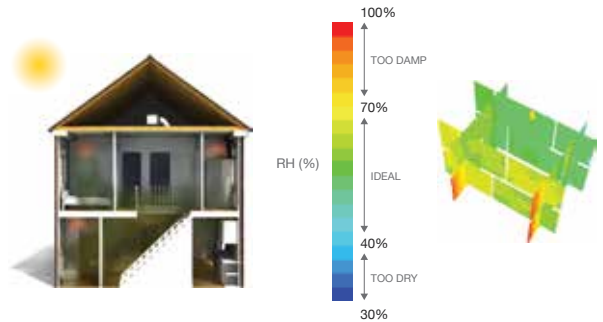
Below is a scientific study using Computational Fluid Dynamics (CFD). This research was carried out by the University of Nottingham School for the Built Environment.

1 - Humidity and temperature after one hour



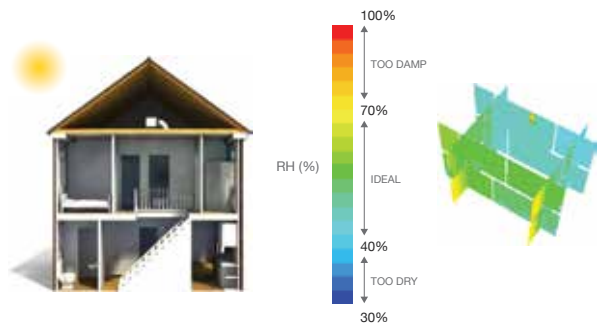
Relative humidity is still between 75-95%

2 - Humidity and temperature after three hours



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

3 - Humidity and temperature after six hours



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

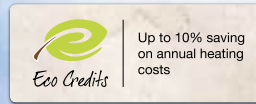


Mould is a serious problem in the home and if you paint over the problem, it will only come back.



Scan the QR code to view the scientific study into PIV and see what effect it has on indoor air quality.

PIV Loft Mounted Unit



Lifetime Range®

Whole House Positive Input Ventilation Unit



Energy Saving Benefits

✓ Minimum Energy Consumption

Powered by an Ultra Low Watt Brushless DC Motor, the PIV EnviroVent 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 EnviroVent 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 an EnviroVent 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.



About

The EnviroVent Loft Mounted Unit is a sophisticated whole home 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 guarantee
- Reduces/eliminates surface condensation
- Quiet operation
- 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
- Expert fitting staff

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 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 Loft Mounted Unit and PIV Air Source are manufactured in Harrogate, United Kingdom.



These products are supplied with five year maintenance free warranties.



The packaging is made from recycled material.

• 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.

• Pre-Heater and Hours Run Meter

The integral pre-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.

Intelligent Remote Control (optional)

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



Annual Running Costs

Annual running costs 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

Trickle	Medium
£4.86	£5.85

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

Trickle	Medium
£4.41	£5.70

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 Computer	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 Computer	4.6 Days
Games Console	4.6 Days
Iron	41 Hours
Tumble Dryer	17 Hours
Coldfill Dishwasher	17 Loads

Options & Ancillaries

EnviroVent Diffuser

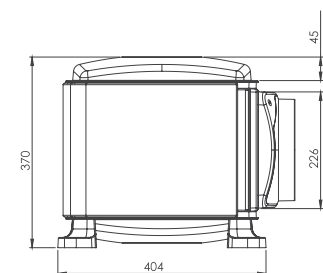
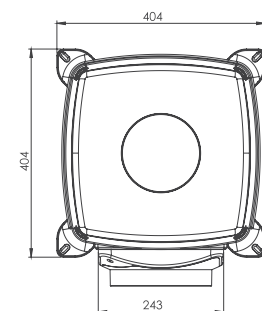
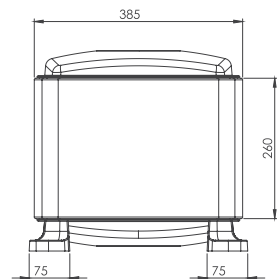
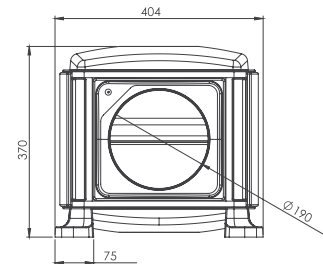
1DIF EVL DIF

Flexible Hose Ducting - Ø200

1RD FLEX 200 X 1M
1RD FLEX 200 X 3M
1RD FLEX 200 X 6M

Dimensions (mm)

PIV Loft Mounted Unit



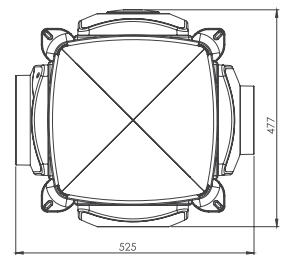
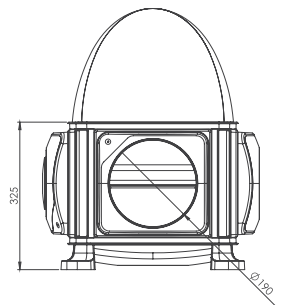
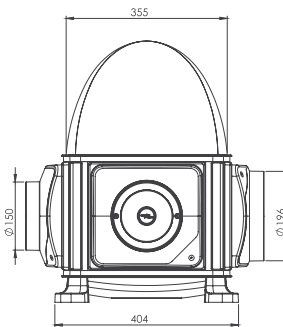
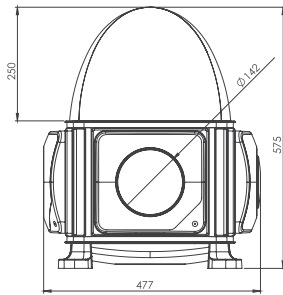
Don't have a loft space? Don't worry, turn to pages 9 and 10 for the EnviroVent Wall Mounted Unit which is suitable for flats and apartments.



Scan the QR code to see how these products can improve indoor air quality, solving condensation and mould problems.

Dimensions (mm) ✓

PIV Air Source



Technical Specifications ✓

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 recovery 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	14.0	-

- (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. For fitment in 3 floor properties above 4.5m, EVL-H-W or EVL-W shall be fitted with KIT-PIV-SMOKE.

Construction

ABS plastic to contain at least 50% recycled material.

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 a synthetic fibre based filter mat to G4 standard in accordance with EN779 standard ratings, conforming 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 exchanging filters and consumable items. There should be no requirement for any maintenance within the five year period.

Guarantee

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

Integral 'Intelligent Low Temperature' Comfort Heater

Powered by a single supply and capable of holding incoming air temperatures accurately - around 10°C. The integral heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

This 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, +A2:2006, +A12:2006, +A13:2008, +A14:2010

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

EMC Directive

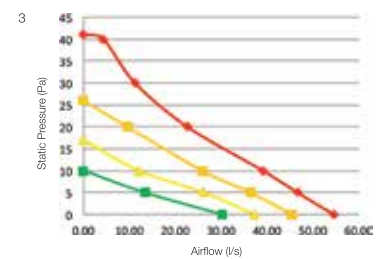
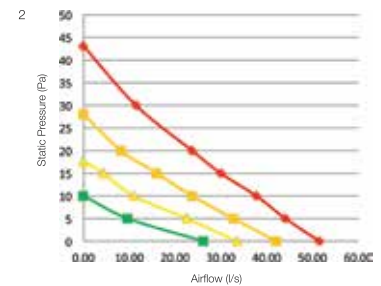
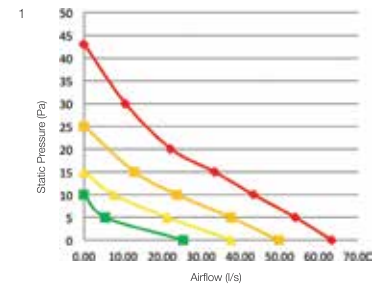
EN55014-1:2006 (EMISSIONS)

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

BBA

Certificate No: 03/4043

Performance Curves ✓



1. PIV Loft Mounted Unit
2. PIV Air Source with summer by-pass NOT activated
3. PIV Air Source with summer by-pass activated

- Key
- Trickle
 - Medium
 - Large
 - Boost

Performance curve results are based on the unit running below 19°C and exclude ancillaries

Order Codes

EVL-HW	PIV Loft Mounted Unit with heater and remote control
EVL	PIV Loft Mounted Unit
EVL-H	PIV Loft Mounted Unit with heater
EVL-HAS	PIV Air Source with heater

EVL-HWAS	PIV Air Source with heater and wireless control
EVL-H-IN	PIV Inline with heater
1ACSMOKEALARM	Smoke alarm for the above units
KIT-PIV-SMOKE	Kit for 3 floor installation, fire diffuser and ducting

MIV[®] Loft Mounted Unit



Lifetime Range[®]

Multiple Input Ventilation (MIV[®])



• 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.



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.

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
- Provides all year round quality filtered air
- Reduces/eliminates surface condensation
- Quiet operation
- 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
- Expert fitting staff

• Unique EnviroVent Mini Diffuser



Available with the MIV[®] Loft Mounted Unit is the stylish EnviroVent 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 can cut fuel bills by 10%.



The EnviroVent MIV[®] Loft Mounted Unit and MIV[®] Air Source are manufactured in Harrogate, United Kingdom.



These products are supplied with five year maintenance free warranties.

envirovent

MIV Loft Mounted Unit



Upgrade



MIV® Air Source

Solar Gain and 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.

Intelligent Remote Control (optional)

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



Annual Running Costs

Annual running costs 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

Trickle	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

Trickle	Medium
£4.30	£5.71

Comparisons against other household appliances

MIV® Loft Mounted Unit

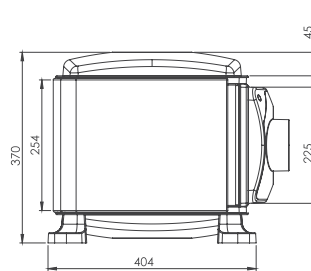
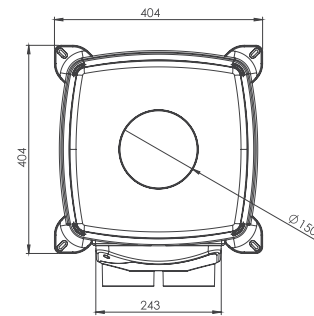
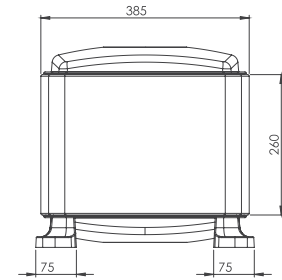
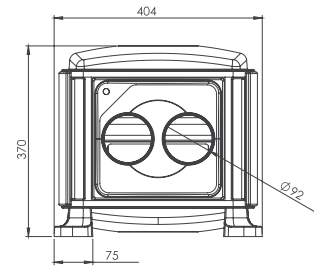
Household Appliance	Time required to consume £5.85 of electricity
Fridge Freezer	20 Days
42" TV (Viewing Time)	20 Days
100W Light Bulb	14.6 Days
Home Computer	4.7 Days
Games Console	4.7 Days
Iron	41 Hours
Tumble Dryer	17 Hours
Coldfill Dishwasher	17 Loads

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 Computer	4.6 Days
Games Console	4.6 Days
Iron	41 Hours
Tumble Dryer	17 Hours
Coldfill Dishwasher	17 Loads

Dimensions (mm)

MIV® Loft Mounted Unit



Options & Ancillaries

EnviroVent Mini Diffuser	1DIF EVL SML1
Round Rigid Ducting - Ø100	1RD 100 X 2M
90° Bend - Ø100	1RD 90 BEND 100



This technology is also ideal for new build projects. Scan the QR code to check out the PIV for new build video.



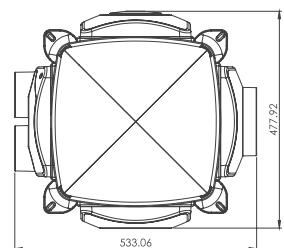
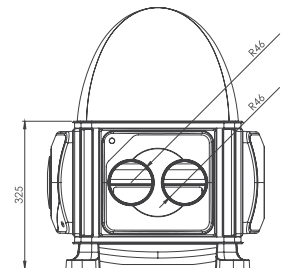
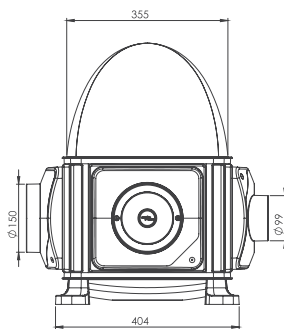
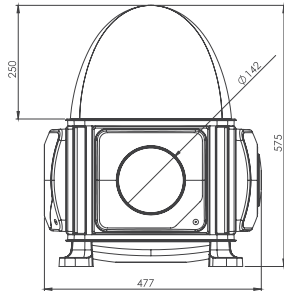
Every product in EnviroVent's Lifetime Range® is manufactured in Harrogate, United Kingdom.



Did you know that we now offer bpec approved training programmes? Call us on 01423 810 810 for more information.

Dimensions (mm) ✓

MIV® Air Source



Technical Specifications ✓

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)	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	-

- (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

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 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. There should be no requirement for any maintenance within the five year period.

Guarantee

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

Integral 'Intelligent Low Temperature' Comfort Heater

Powered by a single supply and capable of holding incoming air temperatures accurately – around 10°C. The integral heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

This 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, +A2:2006, +A12:2006, +A13:2008, +A14:2010

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

EMC Directive

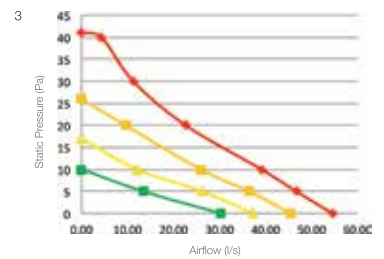
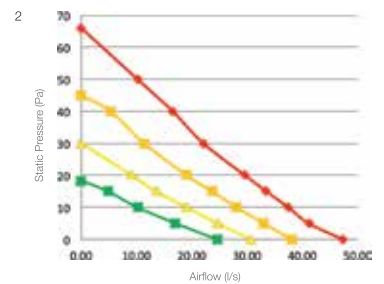
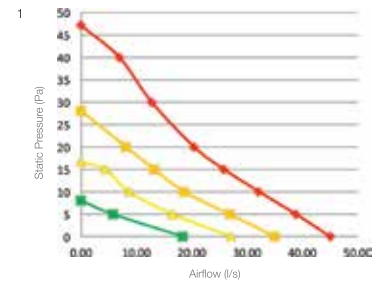
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EN55014-2:1997, +A1:2001 Cat IV (IMMUNITY)

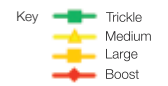
BBA

Certificate No: 03/4043

Performance Curves ✓



1. MIV® Loft Mounted Unit
2. MIV® Air Source with summer by-pass NOT activated
3. MIV® Air Source with summer by-pass activated



Performance curve results are based on the unit running below 19°C and exclude ancillaries



Don't have a loft space? Don't worry, turn to pages 9 and 10 for the EnviroVent Wall Mounted Unit which is suitable for flats and apartments.

EVL-TS

EVL-HTS

MIVAS-H

MIVAS-HW

EVL-H-IN-TS

1ACSMOKEALARM

MIV® Loft Mounted Unit

MIV® Loft Mounted Unit with heater

MIV® Air Source with heater

MIV® Air Source with heater and wireless control

MIV® Inline with heater

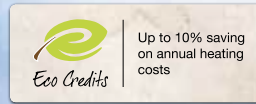
Smoke alarm for the above units

envirovent

MIV Loft Mounted Unit

For more information on these products call 0345 27 27 810

Wall Mounted Unit



Lifetime Range®

Whole House Positive Input Ventilation Unit



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.



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 guarantee
- 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



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 hay fever. 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, providing a significant improvement in the health of asthma sufferers and general indoor air quality.



The EnviroVent Wall Mounted Unit is manufactured in Harrogate, United Kingdom.



This product is supplied with a five year guarantee.



The packaging is made from recycled material.

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.

Pre-Heater and Hours Run Meter

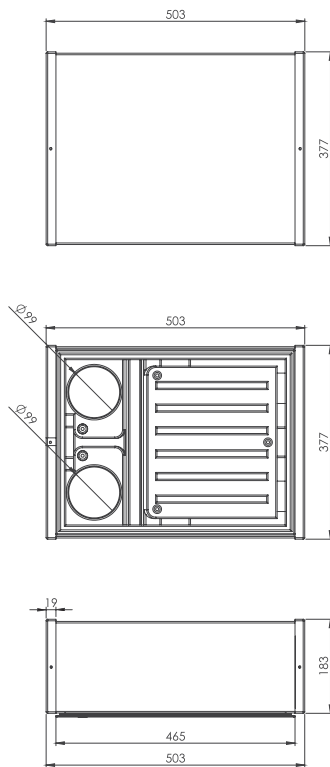
The integral pre-heater is designed to temper the incoming air during periods of low external temperatures.

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.

Dimensions (mm)



Technical Specifications

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.

Guarantee

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

Integral 'Intelligent Low Temperature' Comfort Heater

Powered by a single supply and capable of holding incoming air temperatures reasonably accurately – around 10°C. The heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

This 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, +A2:2006, +A12:2006, +A13:2008, +A14:2010

EN 60335-2-60:2003, +A1:2004, +A2:2009

EMC Directive

EN55014-1:2006 (EMISSIONS)

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

BBA

Certificate No: 03/4043

Annual Running Costs

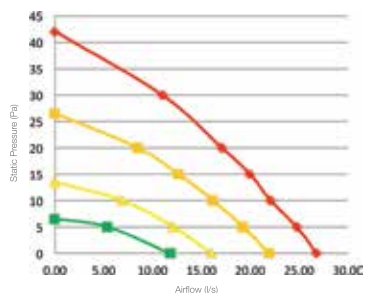
Annual running cost with heater DISABLED. All costs are based on an electricity cost of £0.15 per unit (kWh). These calculations must be used as a guide only. Below are comparisons against other household appliances

Settings

Trickle	Medium
£4.47	£5.00

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 Computer	4 Days
Games Console	4 Days
Iron	41 Hours
Tumble Dryer	17 Hours
Coldfill Dishwasher	15 Loads

Performance Curve



Performance curve results are based on the unit running below 19°C and exclude ancillaries

Key	Trickle	Medium	Large	Boost
	Green square	Yellow triangle	Orange diamond	Red circle



Mould is a serious problem in the home and if you paint over the problem, it will only come back.

Order Code

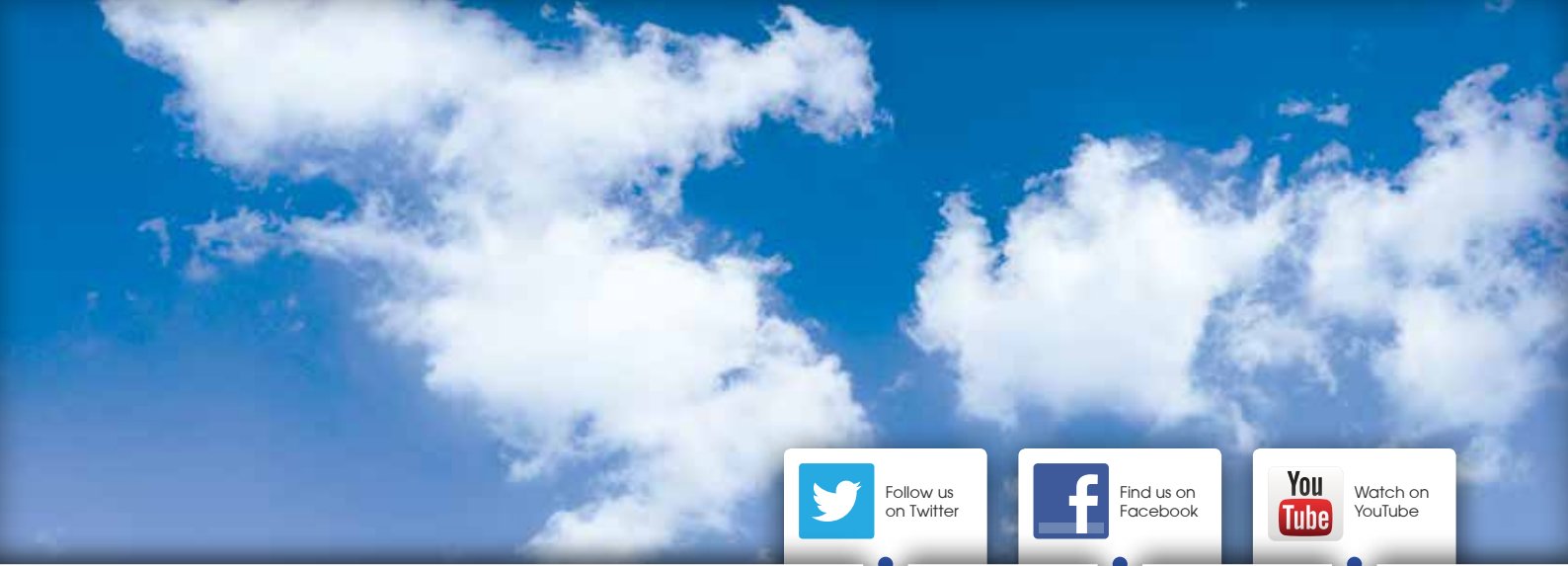
EVF-H

Wall Mounted Unit with heater



Wall Mounted Unit

For more information on this product call 0345 27 27 810



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

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