

MIV[®] Loft Mounted Unit



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.



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

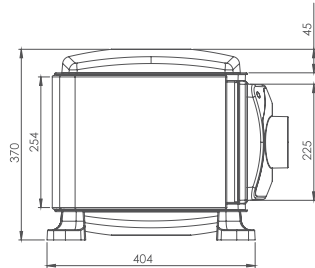
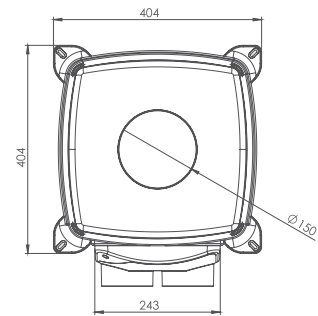
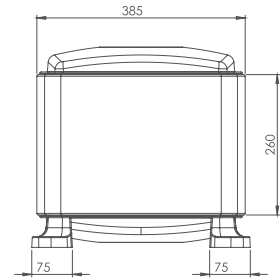
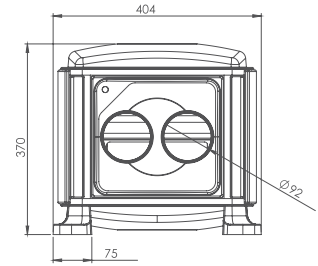
Household Appliance	Time required to consume £5.85 of electricity
Fridge Freezer	20 Days
42" TV (Viewing Time)	20 Days
100W Light Bulb	14.6 Days
Home Computer	4.7 Days
Games Console	4.7 Days
Iron	41 Hours
Tumble Dryer	17 Hours
Coldfill Dishwasher	17 Loads

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.



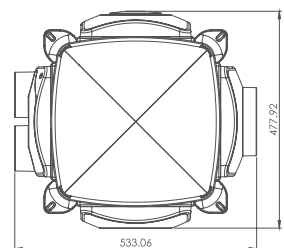
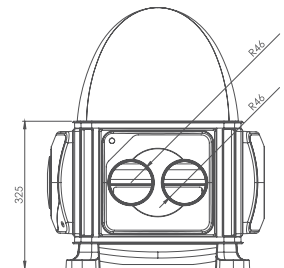
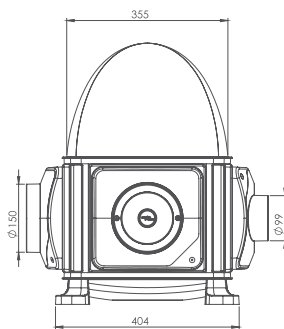
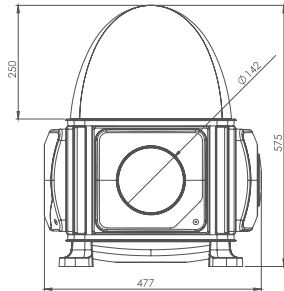
Every product in EnviroVent's Lifetime Range® is manufactured in Harrogate, United Kingdom.



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, +A11:2004, +A2:2006, +A12:2006, +A13:2008, +A14:2010

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

EMC Directive

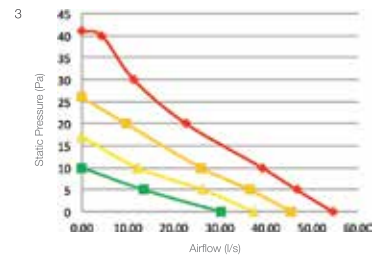
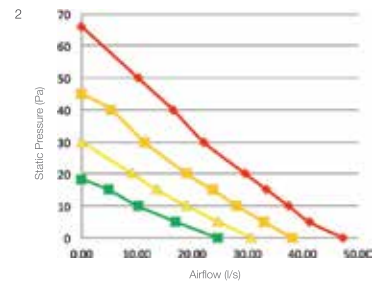
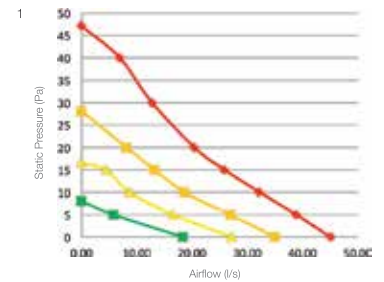
EN55014-1:2006 (EMISSIONS)

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

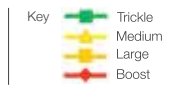
BBA

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 36 and 37 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