

MIV[®] Air Source

Multiple Input Ventilation (MIV[®])



NEW



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

Features

- Ultra Low Watt DC Motor Technology
- Sealed for life ball bearings
- Loft or external air supply
- Optional intelligent comfort heater
- Optional wireless boost facility
- 5 year ongoing maintenance free warranties

Benefits

- 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

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[®] Air Source has the ability to supply fresh, filtered air via multiple inputs into areas with greater requirements for ventilation. Highly efficient, inputs can be situated in 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 EnviroVent Mini Diffuser



Available with the MIV[®] Air Source is the stylish EnviroVent energy saving diffuser, providing an innovative alternative to standard ceiling vents. Simple to commission and install, the diffuser is designed with easy to clean filters, which prohibit contaminants entering the property.

These also act as a second defence against pollen and other airborne contaminants in conjunction with the unit's internal filter. Side panels can be easily blanked off according to its location.

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 or on demand through a multiple of wireless control switches. 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.

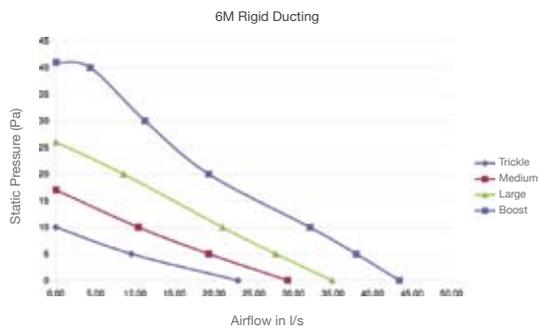
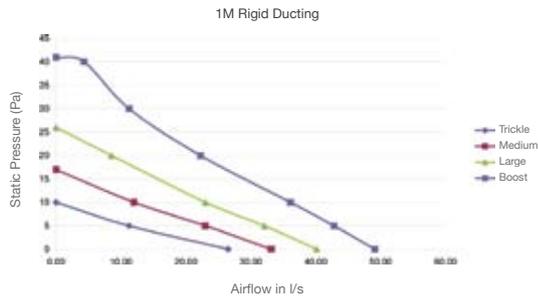


Make it MIV[®] Multi-Zone Destratification

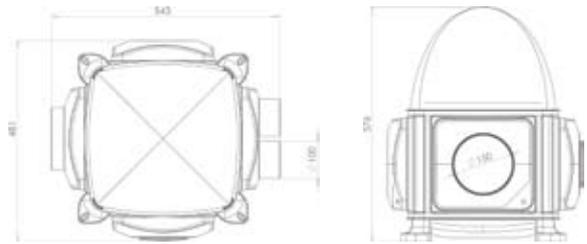
Warm air accumulates at ceiling level and is normally lost through windows and extract fans. This air can be up to 7°C higher than the internal air at ground level. By introducing an almost imperceptible fresh air supply into multiple rooms, the MIV[®] Air Source redistributes heat around the home by pushing the heat back down and keeping the convection currents moving to reduce space heating costs. By saving only 1 degree of heat the multi-zone destratification will cut fuel bills by 10%.



Performance Curves



Dimensions (mm)



Technical Specifications

Product

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

Applications

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. During warmer months of the year when the temperature in the loft space exceeds 25C, the unit starts 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

	<19°C (1)	>19°C (2)
Maximum airflow l/s (m³/hr)	60 (216)	72 (259)
Maximum power (W)	11.1	14
Maximum sound levels dBA @ 3m	28.3	-
Speed settings	4	4

(1) The unit performs in 'condensation control mode' at air temperatures below 19°C

(2) The unit performs in energy saving 'heat source mode' at air temperatures above 19°C

Installation

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

Motor

Incorporates the Ultra Low Watt DC Motor Technology with sealed for life bearings designed to operate continuously at a pre set 'background' rate.

Fan

Is a 140 x 220mm centre mounted forward curve 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 reasonably accurately – around 10°C. The heater element is manufactured in a solid tubular sheath material and not in open wire format.

Accreditations

CE - EMC Compliance: EEC/89/336
Low Voltage Directive IEC 72/73/EEC

Running Costs

Trickle Setting / Medium Setting	Annual running cost with heater DISABLED. All costs are based on an electricity cost of £0.15 per unit (kWh).
£6.04 / £8.80	

Household Appliance	Time required to consume £6.04 of electricity
MIV® Air Source	1 Year
Fridge Freezer	18.5 Days
21" TV (Viewing Time)	14 Days
100W Light Bulb	14 Days
Home Computer	4.5 Days
Games Console	4.5 Days
Iron	37 Hours
Tumble Dryer	14 Hours
Coldfill Dishwasher	16 Full Loads

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For more information
on this product call
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