

CI/SfB

| (57.7) | | |

1st Edition

Heat Recovery Range



## Heat Recovery Range

Residential & Commercial Sector

“ The largest and most comprehensive range of Heat Recovery (MVHR) on the market today, from the UK leader ”

**Vent-Axia**<sup>®</sup>

# Live and breathe the difference



As our market continues to evolve, the top manufacturers in the sector must raise their game and provide the product, sales and technical support you need to succeed. And, as the UK's premier domestic, commercial, and industrial ventilation company, that's precisely what Vent-Axia is all about. We are therefore please to present an overview of our heat recovery range which we believe is the most comprehensive offer anywhere in the world.

## What is heat recovery?

Mechanical ventilation with heat recovery (MVHR) is a method of ventilating a building and recovering the heat that would otherwise be exhausted to atmosphere. Air that is extracted from the building is passed through a heat exchanger which can capture over 90% of the heat. Fresh replacement air is then bought through the heat exchanger recovering that heat and bringing it back into the building. It can be either through a central ducted unit or a single room unit (dMVHR), but the principle is the same.

## Why is it needed?

New Building Regulations across Europe are now requiring tighter, better insulated homes and buildings. As they become more efficient greater importance is placed on ventilating them effectively and efficiently and MVHR provides one of the best ways of providing it.

## Why Us?

With an unsurpassed product offer, including centralised systems all the way from a small apartment up to and including commercial an industrial applications, Vent-Axia have a solution.

This overview shows the continued investment in products and services we are specifically making in our comprehensive range.

Vent-Axia is here to help you right through the design, specification and installation process, whatever your application. Backed by a UK wide 70 strong sales team and an unrivalled technical support group based here in Crawley, we also have developed a comprehensive network of overseas distributors and continue to seek other overseas opportunities. Our commitment to quality and service runs right through the core of the business, and through our supply chain to you, our customers.

Vent-Axia – the First Name in Ventilation.

**Ronnie George**  
Managing Director

Employing over 800 people across 4 manufacturing sites, we continue to invest in UK manufacturing.

Being in control of manufacture of the component parts including motors and mouldings all within the UK, we reduce our lead times as well as our carbon footprint.

## Swindon - LoWatt DC Motor manufacture

- 80,000 sq ft factory
- Over 1 million motors supplied into the HVAC market every year
- The key provider of our LoWatt technology

## Reading - Plastic Moulding and extrusion manufacture

- 50,000 sq ft injection and extrusion factory running 24 hours a day
- Over 30 injection moulding machines
- 5 extrusion lines for rigid and flexible duct

## Dudley - Systems and Industrial manufacture

- Our largest site with 120,000 sq feet of manufacturing and warehousing space
- Manufacturing base for our metal products including Sentinel Demand Ventilation and Sentinel Totus
- Also the home of our heat recovery (MVHR) and Multivent (MEV) products

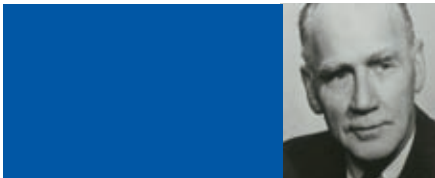
## Crawley - Unitary plastic fan manufacture

- Manufacture of plastic ventilation ranges
- Design and test facilities for rigorous product testing including safety, airflow and climate chambers – BEAB approved
- Head Office functions including Sales Office, Customer Services, Technical Support and Marketing

## New Building Regulation and the Lo-Carbon Range

The new building regulation consultations covering Part F and L continue to drive energy efficiency and now state minimum energy efficiency for all ventilation systems. This includes for the first time a specific fan power (watts per l/s) for intermittent fans for both refurbishment and new build.





# Vent-Axia Firsts

At Vent-Axia we have a history of innovation. When you look at our heritage, it soon becomes clear we have been the First name in Ventilation since our inception



1936 – Maritime engineer Joe Akester invented the unitary extractor fan ‘Silent 6’ made from Bakelite material. The original products featured DC motors.

1945 – Following the Second World War, Sir Winston Churchill bought two Silent 6 fans for his Chartwell home. A copy of the cheque for £28. 19s 8p is in Vent-Axia’s reception area at Crawley.

1953 – The ‘X type’ fan was produced in 4 sizes and the unique ‘R type’ controller enabled the fans to be reversed for the first time.

1961 – Vent-Axia Standard Range was launched and applications became more varied with the first dedicated models for roof and wall mounting and even a model for commercial and military vehicles.

1975 – The Universal fan range featured the first ‘centrifugal’ shutter mechanism that allowed the shutters to operate in both directions without pull-cords.

1985 – The T Series’ product range featured a patented DC solenoid shutter and offered unique applications like In-Line and Dark Room models. Accessories like the Direct Mount Spigot and wall terminations also enabled the fans to be used with ducting as a complete installation kit.

1985 – Vent-Axia was the first, (in fact the only) fan company to be awarded the Royal Warrant by the Queen for supplying unit ventilation to Royal Households.

1992 – The 16th edition of IEE regulations ‘on site guide’ was issued and Vent-Axia launched the first Safety Extra Low Voltage fan to meet the requirements for electrical safety in bathrooms.

1994 – The patented LuminAire became the first fan and light combination and its IP57 protection made the unit electrically safe for shower installation.

1997 – Domestic energy efficient ventilation began with the launch of the LoWatt range featuring a DC motor and patented shutter system that used no additional power.

2002 - Commercial fans became energy efficient with LoWatt T Series launched at Interbuild in Birmingham.

2006 – The Sentinel range was developed as the first ‘demand’ ventilation system with energy efficient EC/DC motors.

2007 – Vent-Axia launched the first complete Lo-Carbon ventilation range featuring Residential Fans, MEV, MVHR and Commercial Energy Efficient products.

2008 – As part of the Sentinel family, Totus Demand Energy Recovery became the first low energy commercial ventilation system with a 90% efficient energy recovery and EC/DC motor.

2009 – Sentinel Kinetic becomes the first Lo-Carbon heat recovery with 90% heat recovery and cooker hood facility.



# MVHR SYSTEMS

## Astra



Up to 3 Bed House or Flat



- Part F compliant, System 4 continuous Mechanical Ventilation with Heat Recovery
- Normal, Boost & Purge speeds
- LoWatt motor offering 90% energy savings and long life

## HR204



Up to 3 Bed House or Flat



- Controls condensation and odours
- Up to 70% heat recovery
- Eliminates mould growth
- Prevents noise ingress

## Kinetic



Up to 4 Bed House or Flat



- SAP Q Eligible - specific fan powers down to 0.72
- Compact and quiet.
- Light weight for easy installation.
- Easy access filters.

## Kinetic Hood



Up to 4 Bed House or Flat



- Building Regulations Part F compliant
- Ideal for small apartments
- Built in cooker hood
- Up to 92% heat recovery whilst controlling condensation

## Kinetic Plus



Up to 7 Bed House, Flat or Commercial



- SAP Q Eligible - specific fan powers down to 0.49 and 92% efficient
- Light weight for easy installation
- Easy access filters
- Ideal for Student Accommodation

## Integra



Up to 3 Bed House or Light Commercial



- Powered heat recovery unit for smaller residential or commercial applications up to 160m<sup>3</sup>
- Up to 70% heat recovery
- Meets new Building Regulations
- Extremely quiet on low speed

## Integra Plus



Large House, Flat or Commercial



- Powered heat recovery unit for larger residential or commercial applications
- Up to 70% heat recovery
- 3 speed control
- Quiet operation

## HR200V



Commercial



- Powered heat recovery module for smaller commercial applications
- Up to 70% heat recovery
- With 150mm duct connection
- Quiet operation

## HR300RW6



Commercial



- Balanced supply and extraction
- Up to 70% Heat Recovery
- Spigots to suit 150mm Ducting
- Lightweight Polymeric construction

## HRX4

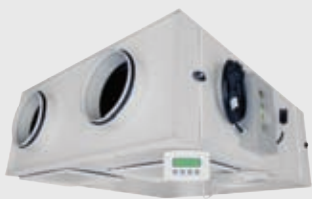


Up to 3 Bed House or Light Commercial



- Passive - no fans
- Up to 70% heat recovery
- Lightweight Polymeric heat exchanger
- Spigots to suit 150mmØ ducting and accessories

## Verto coming soon



Commercial



- 8 unit sizes
- Up to 1m<sup>3</sup>/s
- Up to 65% heat recovery (EN308)
- Inbuilt summer bypass

## Totus



Commercial



- 3 unit sizes covering 500-2000m<sup>3</sup>/h
- Sentinel demand ventilation control
- Low energy EC/DC motors
- Ideal for schools & for reducing heating demand
- Up to 90% heat recovery (EN308)



## Tempra



Single Room Residential



- Fits in 100mm diameter hole – ideal for refurbishments
- Up to 70% heat recovery
- Reduces your carbon footprint
- Summer bypass

## HR25



Single Room Residential



- Reduces your carbon footprint
- Designed for installations in bathrooms, toilets and utility areas
- 84% temperature based heat recovery
- Up to 90% energy saving

## HR100RS



Single Room Residential



- Controls condensation and odours - saves energy
- Eliminates mould growth
- Up to 70% Heat Recovery
- Extremely quiet operation.

## HR100S



Single Room Residential



- Single room domestic heat recovery ventilation unit
- Saves energy - controls condensation
- Up to 60% heat recovery
- Extremely quiet trickle ventilation mode

## HR100W/WH



Single Room Residential



- Single room domestic heat recovery ventilation unit
- Up to 70% heat recovery
- Meets new Building Regulations
- Humidistat version

## HR200WK



Single Room Residential & Commercial



- Single room heat recovery ventilation unit
- 3 speed motor
- Integral washable filter

## HR300



Single Room Commercial



- Designed for continuous operation, providing up to 70% heat recovery
- Controls condensation and eliminates mould
- Speed controllable

## HR500



Single Room Commercial



- Self-contained unit with integral fans
- Up to 70% heat recovery
- Compatible with 315, 250 and 200mmØ, ducting and accessories
- External wall mounting

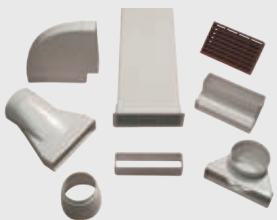
## Accessories

### Controls



- Humidistats
- PIR
- Timers
- Air Quality Sensors
- Trickle / Boost Switches and Relays
- CO<sub>2</sub> sensors

### Rigid Ducting



- Full range of ducting with bends, connectors and ancillaries
- 204 x 60 and 110 x 50 ideal for installation in ceiling voids
- Made from recycled plastic

### Fast Duct



- Fast fix semi rigid ducting
- Integrated gasketed mechanical sealing system
- Low air leakage simplifying installation



By Appointment to H.M. The Queen  
Suppliers of Unit Ventilation Equipment  
Vent-Axia, Crawley, West Sussex

# Vent-Axia®

## VENT-AXIA CONTACT NUMBERS

Free technical, installation and sales advice is available

### Sales Centre:

#### Domestic & Commercial

Sales Tel: 0844 856 0590  
Sales Fax: 01293 565169  
Tech Support Tel: 0844 856 0594  
Tech Support Fax: 01293 539209

#### Industrial

Sales Tel: 0844 856 0591  
Sales Fax: 01293 534898  
Tech Support Tel: 0844 856 0595  
Tech Support Fax: 01293 455197  
Web: [www.vent-axia.com](http://www.vent-axia.com)  
Email: [info@vent-axia.com](mailto:info@vent-axia.com)

### Supply & Service

All sales made by Vent-Axia Limited are made only upon the terms of the Company's Conditions of Sale, a copy of which may be obtained on request. As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.

