Expert in Air Movement since 1955
Airtight Homes
Modern dwellings are designed with increasingly reduced natural air infiltration rates, higher levels of insulation making them almost completely sealed. Consequently, the air inside can become moist, stale, and generally stuffy and unpleasant to breathe. As we spend nearly 70% of our time at home, we should be looking after our indoor environment better.

Unhealthy Atmosphere
Indoor climate can be too warm, too cold, too damp, too dry. Combining this with the activity of everyday living and people living together in close proximity produces odours, cooking smells and numerous unhealthy, volatile organic compounds (VOC).

Carbon Emissions
Everyone is aware of the need to reduce our carbon footprint. Managing the carbon emissions from dwellings will be the cornerstone of our Building Regulations until we reach carbon zero dwelling. From appliances to people, carbon dioxide and carbon monoxide is emitted and needs to be curtailed.

Radon
Radon is a naturally occurring, invisible, odourless gas that comes from deposits of uranium in soil, rock, and water. It is harmlessly dispersed in outdoor air, but when trapped in buildings, can be harmful, especially at elevated levels. Some regions of the U.K. are more prone to radon gas than others.

Biological Pollutants
You could be sharing your bed with thousands of dust mites. Bedding and carpets are their home and if your dwelling is overly damp or humid, they breed all the more. Dust mites contribute to the increase in asthma, chest infections and allergies and if left unchecked represent a very real health hazard.

Noise
Many people do not really stop and consider the constant level of sound we are subjected to on a daily basis, but noise is ever present.

Mould
Unchecked levels of moisture (condensation) and relative humidity combined with a suitable organic breeding place such as wood, carpet, wallpaper etc., will inevitably lead to mould growth. Mildew forms in wall cavities and crevices and microscopic mould spores can be inhaled by humans triggering asthma, allergies and skin disorders.

Condensation
Dampness is a huge problem in the U.K. Damaging to both humans, and to the fabric of buildings, condensation forms when the temperature of a surface (walls, mirror etc.) is below the dew point of the surrounding air. This leads to streaming windows and walls and ultimately to mould.

Toxic Gases
A variety of noxious and toxic gases can collect within a dwelling if not properly ventilated. All can have a serious effect on health and well being if not considered as part of a ventilation strategy.

Did you know?
- 81% of people are at risk from a respiratory or dermatological condition because of poor air quality in their home.
- 58% of people have experienced mould or condensation in their home.
- 15.3% of people in the UK are at risk of 'Toxic Home Syndrome.'
- 90% of our time is spent indoors where air can be more polluted.
- 900 more chemicals, particles and biological materials indoors may affect our health.
- 50% more pollutants may be found inside your home than outdoors.
## Residential Extractor Fans

### iCON

**Stylish, award winning design**
- Unique, silent shutter opening
- Axial and mixed flow impellers
- Extraction from 19 l/sec / 68 m³/hr up to 75 l/sec / 270 m³/hr
- 12v dc for extra safe (SELV) low energy ventilation
- Modular design, choose the fan, select the controller
- Choice of basic, timer, humidity, motion sensor
- Coloured cover options available
- Low specific fan power (SFP) meets latest Building Regulations

### iCONstant

**Continuous ventilation**
- Continuous running axial fan
- Trickle flow rates of 6, 8 and 13 l/sec
- Maximum boost flow rate of 20 l/sec
- Control Options: Timer and Humidity
- IPX5 – Install in Zone 1 or 2
- Low SFP complying with current Building Regulations
- SAP Appendix Q eligible
- Low Noise to 10 dB(A)

### QuietAir

**Hushhh...Its good to be quiet!**
- Discreet 100mm, 125mm and 150mm axial, low energy fans
- From 5 watts
- Normal and Power flow settings – 21 l/sec / 75 m³/hr to 72 l/sec / 260 m³/hr
- IP45 - Install in Zone 1 or 2
- Extracts over longer duct lengths
- Whisper Quiet, from 25 dB(A)
- Eco-start option. Two minute delay for quick visits
- Room refresh – programmable routine ventilation every 8, 12, 24 hours
- Low specific fan power (SFP) 0.24 w/l/s well below latest Building Regulations

### Aura-eco

**Slim profile, simple to fit**
- 100mm, 125mm and 150mm axial fans
- Compact styling
- Powerful extraction up to 65 l/sec or 235 m³/hr
- Low watt motor, from 6 watts
- Quiet, from only 29 dB(A)
- Low specific fan power (SFP)

### LOOVEKT-eco

**The next generation...**
- 2 speed Centrifugal Fan
- Extract performance up to 31 l/sec or 110 m³/hr
- Economical to operate - from 2.8 watts - low energy DC motor
- Very quiet running fan for its size - from 25.2 dB(A)
- Low SFP - complies with current Building Regulations
- IPX5 - Install in Zone 1 or 2
- Control options: Timer, Humidity Timer and Motion Sensor Timer
- SAP Appendix Q eligible dMEV version available

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Customer Services 01494 560800  airflow.com
# Mechanical Central Extract Ventilation

<table>
<thead>
<tr>
<th>Airovent WHV-8</th>
<th>Airovent HVS-10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Simultaneous extraction from multiple rooms</td>
</tr>
<tr>
<td></td>
<td>Helps reduce condensation problems</td>
</tr>
<tr>
<td></td>
<td>Compact size provides space saving solution</td>
</tr>
<tr>
<td></td>
<td>Low noise, long life EC fans</td>
</tr>
<tr>
<td></td>
<td>Remote control version with built-in humidity sensor</td>
</tr>
<tr>
<td></td>
<td>Quick installation with Airflex Pro semi rigid ducting</td>
</tr>
<tr>
<td></td>
<td>SAP Appendix Q eligible and BEST PRACTICE rated</td>
</tr>
</tbody>
</table>

# Mechanical Ventilation with Heat Recovery (Residential)

## BASIC LINE

### SMALL / MEDIUM DWELLINGS

<table>
<thead>
<tr>
<th>Duplexvent DV72</th>
<th>Duplexvent DV250/300</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fits inside a 600mm cupboard or suspended ceiling (DV72)</td>
</tr>
<tr>
<td></td>
<td>Compact design and lightweight, enabling one-man installation</td>
</tr>
<tr>
<td></td>
<td>Over 90% thermal efficiency</td>
</tr>
<tr>
<td></td>
<td>Independently adjustable EC fans with very low specific fan power</td>
</tr>
<tr>
<td></td>
<td>Thermal summer bypass</td>
</tr>
<tr>
<td></td>
<td>Easy filter maintenance via access windows</td>
</tr>
<tr>
<td></td>
<td>In built frost protection facility</td>
</tr>
<tr>
<td></td>
<td>Stylish touch screen panel with advanced controls</td>
</tr>
<tr>
<td></td>
<td>SAP Appendix Q eligible and BEST PRACTICE rated</td>
</tr>
</tbody>
</table>

## LARGE DWELLINGS

<table>
<thead>
<tr>
<th>Duplexvent BV400</th>
<th>Duplexvent DV400</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Premium thermal efficiency, 93% and SFP (0.45 W/l/s)</td>
</tr>
<tr>
<td></td>
<td>Easy installation via interchangeable spigots</td>
</tr>
<tr>
<td></td>
<td>Automatic summer bypass and frost protection</td>
</tr>
<tr>
<td></td>
<td>Low noise levels thanks to the innovative fan design</td>
</tr>
<tr>
<td></td>
<td>Self diagnostic feature for ease of servicing</td>
</tr>
<tr>
<td></td>
<td>Tamper proof operation for extra safety</td>
</tr>
<tr>
<td></td>
<td>Optional F7 filters</td>
</tr>
<tr>
<td></td>
<td>Digital control version with data logging capability</td>
</tr>
<tr>
<td></td>
<td>Home automation control via BMS connection</td>
</tr>
<tr>
<td></td>
<td>SAP Appendix Q eligible and BEST PRACTICE rated</td>
</tr>
</tbody>
</table>
# Mechanical Ventilation with Heat Recovery (Residential)

## PROFESSIONAL LINE

### SMALL / MEDIUM DWELLINGS

**Duplexvent DV50**

- Low height allows installation above external entry door or in false ceilings
- Easy filter maintenance without entering premises
- Multi spigot design reduces duct length
- Over 90% thermal efficiency and low SFP
- Automatic, 100% summer bypass
- New smart frost protection heater
- Built-in electric post-heater
- Optional digital control and BMS connection
- SAP Appendix Q eligible and PASSIVE HOUSE certified

**Duplexvent DV80**

**Duplexvent DV96SE**

- Galvanized steel casing with extra insulation
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low specific fan power
- Automatic, 100% summer bypass
- New smart frost protection heater
- Auto cut-off switch for extra safety
- Eight speed remote control with LCD display
- Optional BMS connection (LON / KNX)
- Built-in electric post-heater
- Cooker hood version providing space saving solution
- SAP Appendix Q eligible and PASSIVE HOUSE certified

**Duplexvent DV90SCK**

### LARGER DWELLINGS

**Duplexvent DV110SE**

- Galvanized steel casing with extra insulation
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low specific fan power
- Automatic, 100% summer bypass
- New smart frost protection heater
- Auto cut-off switch for extra safety
- Eight speed remote control with LCD display
- Optional BMS connection (LON / KNX)
- Built-in electric post-heater
- SAP Appendix Q eligible and PASSIVE HOUSE certified

**Duplexvent DV145SE**
Airflex Ducting Solutions

Airflex Pro

- Zero leakage ensures highest performance
- 70% time saving on installation
- Interchangeable duct system (75mm round / 51mm oval) without any hydraulic pressure loss
- Compact, suits narrow joists and low ceiling voids
- Durable with high crush ability (13 kN/m²)
- Very low noise transmission between rooms
- Easy cleaning through access panels
- Smooth bore with anti-static and anti-bacterial lining
- SAP Appendix Q eligible

Mix and Match, “Oval or Round” = No loss of Performance

A quick and easy to fit system of semi-rigid ducting that can result in up to 70% time saving during the on-site installation process, compared to rigid or spiral duct methods. This innovative system uses low resistance and antibacterial smooth round and oval tubes which connect each room to the heat recovery unit via an air distribution box.

The Airflex Pro Oval ducting is designed to equal the Hydraulic Performance of Airflex Pro Round so both types can be used within the same system without a loss of performance.

Airflex Retro

- Designed for Renovation Projects
- Installation in 3 steps makes renovation easy
- 40% saving on installation time
- Award winning valves with integrated filters
- Components available with stucco profile
- Can be painted to suit with inside walls
- No need for suspended ceiling to hide the ducting system

No need for a suspended ceiling to hide the ducting system

Retro ducting, is designed as a “coving” system which lends itself to apartments / houses with a standard footprint building design - ideally comprising a common entrance hallway with all rooms emanating from the hallway.
## Industrial Centrifugal Fans

### EC Single and EC Double Inlet Fans

- Highly efficient EC motor driven centrifugal fans.
- Energy savings of up to 80% over induction motor type units.
- Reduced size and lower motor noise.
- Typical bearing life up to 25,000 hours.
- Galvanised steel, powder coated fan cases.
- Airflows up to 1200 l/sec.
- Pressures up to 700Pa.

### Single Inlet Fans

- AC fans to provide airflows from 5.1 l/sec to 128 l/sec with pressures up to 500Pa.
- Proven forward curved, centrifugal impeller technology gives quiet compact performance.

### Double Inlet Fans

- Large air volume, low velocity design and a wide range of applications.
- Motor noise and mechanical vibration is reduced by a patented three point motor mount.
- Fan speeds can be controlled by voltage variation giving total flexibility.

### Duplex Fans

- Twin scroll fan is two aluminum impellers mounted on a centrally located, double shaft AC motor.
- Design provides airflow across a broad front.
- Supplied with an engineered mounting plate for fan stability and easy mounting.
- Airflows up to 151 l/sec. Ideal for cooling applications.

### Hot Fans

- Direct drive fans to handle hot air or the products of combustion up to 250°C.
- Intermediate cooling impeller (an Airflow pioneering design) eliminates the problem of short motor / bearing life at these temperatures.
- Range from 62 l/sec upwards.

### Flue Gas Dilution Fans

- Avoid the use of unsightly and expensive flues.
- Products of combustion are dispersed at low level with CO₂ content 1% or less.
- Aluzinc coated mild steel painted black, or stainless steel (316 Grade), known as the SSDF range, for enhanced corrosion resistance.
- Available in 5 sizes. Up to 650Kw (2.2m Btu)
Mechanical Ventilation with Heat Recovery (Commercial)

FLEXI LINE

Duplexvent DV1100/DV1600
- Largest PASSIVE HOUSE certified commercial range
- Excellent thermal efficiency exceeds 90%
- Low energy EC fans
- Versatile unit positioning (vertical / horizontal)
- 10 speed digital control with BMS
- Internet connection with user / service interfaces
- Constant flow / pressure control with zonal ventilation
- Off the shelf delivery

Multi Line

Duplexvent DV2600/DV3600

LIGHT COMMERCIAL APPLICATIONS

Duplexvent DV2600/DV3600
- Largest PASSIVE HOUSE certified commercial range
- Excellent thermal efficiency exceeds 90%
- Low energy EC fans
- Versatile unit positioning (vertical / horizontal)
- 10 speed digital control with BMS
- Internet connection with user / service interfaces
- Constant flow / pressure control with zonal ventilation
- Off the shelf delivery

COMMERCIAL APPLICATIONS

Duplexvent DV500-DV8000
- Bespoke unit design to match specification requirements
- High thermal efficiency via counter-flow heat exchanger
- Internet connection with user / service interfaces
- Built-in heating and cooling options
- 10 speed digital control with BMS
- Mixing chamber for indoor temperature / humidity regulation
- Constant flow / pressure control with zonal ventilation
- Optional outdoor versions available

Duplexvent DV1500-DV8000N

- Air volume from 8000 to 16000 m³/hr
- Easy assembly – each unit delivered in 3 parts
- Customised units with a choice of duct orientations
- Indoor or rooftop versions
- Low SFP, high static pressure, high efficiency EC fans
- Excellent heat recovery efficiency, up to 85%
- Thermal rotary wheel heat exchanger
- Double skin construction, 45mm mineral wool to class T2, TB2
- BMS protocols: Modbus, TCP, (KNX, BACnet optional)
- VDI 6022, PassivHaus and Eurovent certification pending

Duplexvent Rotary

- Air volume from 8000 to 16000 m³/hr
- Easy assembly – each unit delivered in 3 parts
- Customised units with a choice of duct orientations
- Indoor or rooftop versions
- Low SFP, high static pressure, high efficiency EC fans
- Excellent heat recovery efficiency, up to 85%
- Thermal rotary wheel heat exchanger
- Double skin construction, 45mm mineral wool to class T2, TB2
- BMS protocols: Modbus, TCP, (KNX, BACnet optional)
- VDI 6022, PassivHaus and Eurovent certification pending

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