



a breath of fresh air

ADM Systems create a fresh, healthy & comfortable environment all year round



saving energy & helping the environment

Open windows, extractor fans and trickle vents can cost you 40% of your heating bill. Wasting heat causes us to burn more fossil fuels than we need, contributing to global warming and ozone depletion - the Greenhouse effect.

An ADM system does not waste this heat. Our systems provide an energy efficient solution, using a high performance heat exchanger, which can recover up to 95% of the heat from the extracted air, whilst simultaneously transferring this heat to the incoming fresh air. Consequently, substantial savings can be made on your heating bills.

Furthermore, long life, low energy DC motors (that are both quiet and energy efficient) ensure that running costs are minimised.

A Healthy Home

Incredibly, the air inside any building can be up to 10 times more polluted than the air in the street (*BRE Report 1996*).

A typical household of 4 people can produce up to 18 litres of moisture per day, simply by breathing, cooking and washing. This can then lead to condensation, mould growth and, in some cases, it can damage the actual fabric of the building itself.

Spores of many moulds and fungi (*including timber-attacking fungi*) can be allergenic, carcinogenic, toxic and cause infections.

Potentially dangerous gasses, including carbon monoxide, carbon dioxide, radon, together with volatile organic compounds (VOCs) from, for example, furniture, cleaning products and new paints, pose a serious health risk.

With ADM Systems, air from each of the key rooms is continuously extracted and replaced simultaneously by a constant source of fresh, drier, warm air. This continuous cycle is designed to reduce the relative humidity AND lower the risk of condensation and mould growth occurring.

Harmful gases and dangerous pollutants will also be removed, whilst the introduction of fresh air dilutes any internal contaminants. Overall this dramatically improves the internal air quality and creates a healthy living environment.

Our higher grade filters are capable of capturing 97% of airborne particles as small as 0.1 micron (for example diesel particles, bacteria etc.)



Our Heat Recovery Systems both extract stale air and circulate fresh, pre-warmed, filtered air throughout the building. This is done without the security risk of open windows, annoying draughts or the use of noisy extractor fans and complies with Building Regulations.

Chris Marriott
Managing Director, ADM Systems

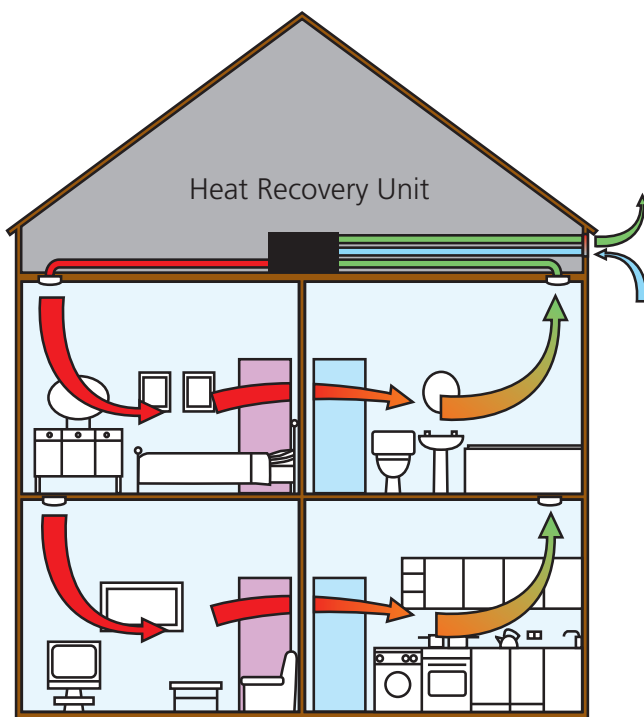
Improve the Standard of Living

Increased comfort and significant improvements in air quality can be achieved by changing the air continuously. In addition, heat can be recovered from the extracted air and can then be made available to raise the temperature of the incoming air.

This provides an imperceptible flow of fresh air throughout the whole building, resulting in a high standard of internal air quality...

...all year round.

This creates the perfect solution for a wide variety of applications, from domestic living to commercial businesses, health care homes and schools.



Typical Heat Recovery System

All Year Round Benefits

- Fresh, filtered air circulated throughout the home
- Lower heating bills
- No need to install noisy extractor fans
- Reduces outside noise pollution
- Unpleasant smells removed
- Improved security (windows can remain closed)
- Condensation controlled
- No more draughts
- No need to install trickle ventilators

A Quiet Revolution

Each system is designed individually to operate quietly and efficiently. The system comprises of compact air handling unit with heat exchanger, complete with controller, rigid smooth-bore ducting, supply and extract air valves, pollen filters, external terminals and sound attenuation.

Asthma & Hay Fever Relief

Heat Recovery Ventilation can have a major impact on improving the quality of life for sufferers of the following allergies:

- Asthma
- Bronchial Attacks
- Eczema
- Hay Fever

Asthma sufferers (80% of whom are allergic to the house dust mite) will clearly benefit from an ADM heat recovery system which can reduce the relative humidity to a level at which the house dust mite will struggle to survive, thereby removing a major trigger of asthma attacks.

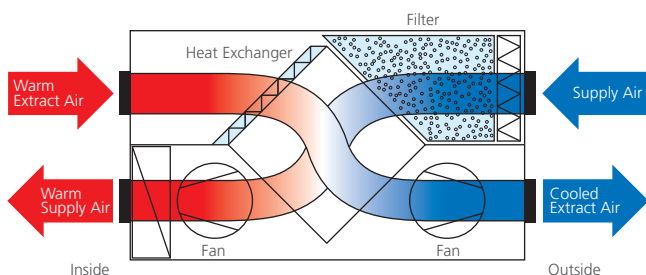
Heat Recovery Units

ADM offer an unrivalled range of units suitable for most applications from a single room to large multi-use buildings. Quiet and compact they can be installed either horizontally or vertically. The motors are quiet and energy efficient. Single-phase external rotor motors are safeguarded by thermal overload protection.

Contact ADM Systems to see what would best suit you.

The Heat Exchanger

The heat exchanger's surface area provides a highly efficient transfer of heat. The enhanced profiling of each plate extends its surface area and provides a balance between laminar and turbulent airflow. Up to 95% of heat is transferred from the stale air to the incoming fresh air. Its design minimises the pressure drop by providing improved airflow entry characteristics, resulting in an extremely efficient heat exchanger.



The Heat Exchanger Principle

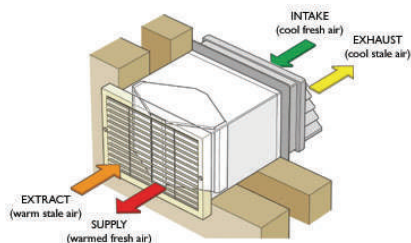
High Performance Ducting

For optimum performance we use, as standard, a rigid ducting system. Made from uPVC, the air throughput is subject to much less resistance than other types of ducting. As there is less turbulence, the fans do not have to work as hard and therefore are more efficient and quieter, costing less to run.

Push-fit assembly means the system is simple and quick to install, standard hand tools are all that is required.

Single Room Heat Recovery Ventilators (SRHRV)

We offer a range of self-contained individual fans that provide heat recovery. Mounted in an external wall these provide local ventilation. Coming in a range of sizes, applications from a small bathroom to a large function room can be accommodated.



Room Terminals

Neat ceiling- or wall-mounted terminals are used to supply or extract air from each room. The supply terminal gently introduces the air laterally so it diffuses with air already in the room, to avoid draughts and discomfort.

Filtration

EU3 grade filters are included as standard to reduce pollen and dust from the incoming fresh air. Higher grade filters are available including EU7 and electrostatic filters which are capable of capturing up to 97% of airborne particles as small as 0.1 micron (for example diesel particles, bacteria etc.).

Options

Stainless Steel Terminals – A range of both internal and external options are readily available.

Heater – Either an electric or Low Pressure Hot Water (LPHW) heater can be incorporated into the system to provide 'top-up' heating.

Timed Boost Speed Controller – Incorporates an overrun timer that can boost the speed setting for up to 30 minutes and then will drop back to "normal". This facility can be operated from anywhere in the building from up to 10 remote switches and can also be wired into home networking systems.

Summer Operation – Systems are available with a summer bypass so fresh filtered air can be introduced without being heated.

Servicing – The whole operation is straightforward and normally carried out once a year and can be undertaken by the householder.

ADM provide a complete maintenance service, please contact us to find out more.

The ADM Service

ADM is the leading independent specialist in energy efficient ventilation in the UK, with over 20 years' experience at the forefront of its development. We will handle everything from preliminary consultations to installation. Alternatively, if you choose to install the system yourself we will work alongside your construction team by offering comprehensive technical support.

Call us now, we offer free effective advice. Should you have building plans available, we can provide you with a free bespoke design service.



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