

Every Breathe you Take



MTD SOLUTIONS IS A COMPANY SPECIALISING IN ENERGY EFFICIENT HEAT RECOVERY VENTILATION AND INDOOR AIR QUALITY AND OFFERS A WIDE RANGE OF PRODUCTS DESIGNED TO IMPROVE THE INDOOR AIR QUALITY OF OUR HOMES AND WORKPLACES BY WAY OF VENTILATION. MARTIN SHIVNEN SPOKE TO COMPANY REPRESENTATIVE CIARON KING WHO EXPLAINS HOW THE COMPANY CAN DRAMATICALLY IMPROVE THE AIR QUALITY IN YOUR HOME.

With the media's daily reminder of the need for energy saving measures in both the construction of new homes and the rejuvenation of old homes, many of us have had every draught and other energy sapping faults in our homes rectified.

However the solution to one problem does raise new ones. How do we ensure that there is a fresh circulation of air, while also keeping our homes at an adequate temperature?

MTD Solutions representative Ciaron King spoke to Energy Saver Magazine in relation to their market leading Heat Recovery Whole House Ventilation products (MTD-EVR System) and on how to drastically improve air quality in the home

The most important thing that the MTD-EVR System does is to improve the air distribution and indoor air quality within the home. With airtight construction, particularly with new buildings, the indoor air quality significantly decreases over time, unless the dwelling is properly ventilated. Even old draughty buildings experience a drop in air quality due to contaminants from pollution, etc.

"This causes massive increases in respiratory problems to those living in these environments," he says. "People living in these conditions will notice more mould and condensation and white powdery residue will be noticed on the likes of leather shoes for example; it is important to remember that, air, like water, in most cases will not have any visible containments."

MTD supply and install various products in the heat recovery ventilation market. The company has a unique advantage within this market; they deal with complete systems, paying particular attention to the indoor air quality. The heat recovery systems operate by recovering the energy that would normally be lost through open windows, wall vents etc.

The warm stale air that is being extracted from the building is passed through the heat exchanger to warm the fresh filtered air and is brought into the house without cross-contamination.

The MTD-ERV system operates with ambient air and humidity levels. The system will remove excess humidity created within the dwelling while simultaneously bringing in fresh air from outside.

The overall effect is that your building is breathing and so are the occupants. However, unlike air conditioning or traditional heating systems the air is not 'dried out' or recycled – it is fresh filtered air.

The main reason why MTD Solutions has established such a unique advantage over its competitors, is because many other companies' offer a "one size fits all" approach when it comes to their product range.

"We have a wide range of products that move up in very small increments, the reason for this is very simple; it enables us to ensure the unit is specific to our clients home where it can perform efficiently and provide the required level of ventilation to the dwelling. Many of our 'competitors' sell one product only; this unit may only be relevant to particular sized homes, any home bigger or smaller will not receive the necessary ventilation."

Mechanical Ventilation Heat Recovery (MVHR) systems should be designed to provide 0.3 changes of air per hour (ach) on the low or trickle setting and 0.5 ach on the high or boost setting. In the self-build market houses vary considerably but the most common range is for dwellings from 130sq.mt to 450sq.mt. To cover this MTD have 7 primary models delivering different airflows and each model is available with 4 specification options.

MTD Solutions ensures all installations of its products uphold the company's own high standards. "We're implementing a new training programme that will provide all trained and registered installers to carry a photo ID which will indicate the installers' record and training."

For those familiar with baseball, you will know that if a batter fails to hit the ball in three strikes they are out, MTD Solutions uses the same principle for its installers. "Last year we took 18 people off the register for different reasons." For example, "if someone tries to pass our MTD-EVR system off as an alternative to central heating, we want to know, that is simply unacceptable."

MTD-ERV product range is designed to be adapted to homes of all sizes and specifications. From apartments to mansions, draughty to airtight, clients will notice a significant increase in air quality from the day the unit is installed.