2010 Building Regulations

Among a raft of new Building Regulations introduced in 2010 is the new Domestic Ventilation Compliance Guide. Reproduced below are some of the key point in the new Guide with our added notation in white italics of the advantages to be gained by installing Airflex Pro in line with the latest requirements specific to:

Continuous Mechanical Ventilation Systems.

Installation	Clauses
2.0 Ductwork	**Duct installation – general notes** a. Ducts should be sized to minimise pressure loss and noise generation. This is achieved by sizing the ducts to limit the air velocity. ***Airflex Pro wall/ceiling plenums allows this*** b. The routing of ducts should aim to minimise overall duct length and minimise the number of bends required. It is particularly important to minimise bends in main ducts operating at higher air velocities. ***Semi rigid nature of Airflex Pro ducting allows this*** c. The need for privacy (acoustic separation) should be considered when planning duct layout. ***Characteristic of Airflex Pro ducting system complies as noted in supplementary information, therefore no extra costing required for acoustic attenuation*** d. Where room extract terminals/grilles are not fitted with filters, consideration should be given to the need to access ducts for cleaning. ***Airflex Pro ducting system easily accessible from extract terminals/grilles and plenum boxes, so is easy to inspect and clean.*** e. Ducting should be insulated where it passes through unheated areas and voids e.g. loft spaces ***Flexibility of system allows for majority of ducting to sit inside planned loft insulation therefore reducing the cost of insulating the ducting***
2.0 Ductwork (continued)	**Installation of ducts – rigid** a. Ducts should not be installed where they can be damaged, for example open loft areas where they may be stood on or have items placed on them, breaking seals and possibly crushing the duct. ***Airflex Pro ducting is very forgiving to this type of activity*** b. Connection of components should not result in significant air flow resistance. Components should be proprietary and fit easily together without distortion. ***Airflex Pro Easy connect system utilises very few components ensuring compliance and ease of stocking and availability***

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Tirconaill Air

- **Mechanical Ventilation with Heat Recovery**
- **Central Vacuum Systems**

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Mechanical Ventilation with Heat Recovery

What is MVHR?

Mechanical ventilation with heat recovery (MVHR) combines the merits of Mechanical Extract Ventilation (MEV) with heat recovery.

This enables up to 91% of the heat lost through extraction to be conserved and retained in other habitable rooms in a dwelling.

Highly efficient and cost-effective, MVHR doesn't waste the existing heat in the property; instead, it distributes this heat evenly in living rooms, dining areas and bedrooms.

How does MVHR work?

MVHR works through a clever combination of air extraction and supply.

Stale, moist air is extracted from wet rooms while, at the same time, fresh air is brought in from outside.

The extracted air passes over a heat exchanger, at which point the heat is collected and used to warm the incoming air. The result: a consistently comfortable indoor environment and increased efficiency.

Xpelair offers both centralised and single room MVHR systems, so there's a solution to suit all applications.

Condensation

In a dwelling of 4 people, each will contribute approximately 4 pints of moisture per day through showers, baths, boiling kettles, cooking etc. This adds up to well over 100 pints of water vapour per week - a huge volume of moisture, which must go somewhere.

Central Vacuum Systems

A central vacuum system is the most powerful, healthiest and most convenient way to vacuum your home.

With a central vacuum, there is no clumsy vacuum to carry. Just insert a lightweight, crushproof hose into a convenient inlet point and vacuum quietly around your home.

The vacuum unit is located away from your living areas in the garage or utility room to provide a quiet environment. It is operated by a switch on the handle.

Sach central vacuum systems supply one of the most technically advanced central vacuum units available.

- Healthier home - with a 3 stage 99.9% filtration of vacuumed air our system provides up to 60% reduction of airborne dust and pollen.
- Convenient - insert a light to carry hose to the fitted wall inlet valve and vacuum or sweep up into an automatic sweep inlet.
- Quiet - because the unit is in the garage or utility area you are able to vacuum around the house without disturbing anyone.
- Powerful - up to 5 times more powerful than a conventional drag-around vacuum, with no bags to empty.
- Durability - if looked after, a life span of 20 years is not uncommon and our systems have up to a 6 year guarantee to provide peace of mind.
- Choice - models to suit all types of domestic properties.
- Digital display - with the digital model you can view all information provided by the control panel on the unit from the remote display installed on the wall in your house.
- No dust bags - Sach vacuums use a three stage cyclonic filtration that requires no bags and they are supplied with a large container to facilitate less frequent emptying.
- Controllability - the digital units are controlled by a variable speed switch on the handle.