



THE QUICK GUIDE TO YOUR HOME VENTILATION SYSTEM AND GOOD INDOOR AIR QUALITY



Tel: 01892 600121 * www.epicair.co.uk * info@epicair.co.uk




THE QUICK GUIDE TO YOUR HOME VENTILATION SYSTEM

Heat Recovery Units (Mechanical Ventilation with Heat Recovery - MVHR) What Are They?

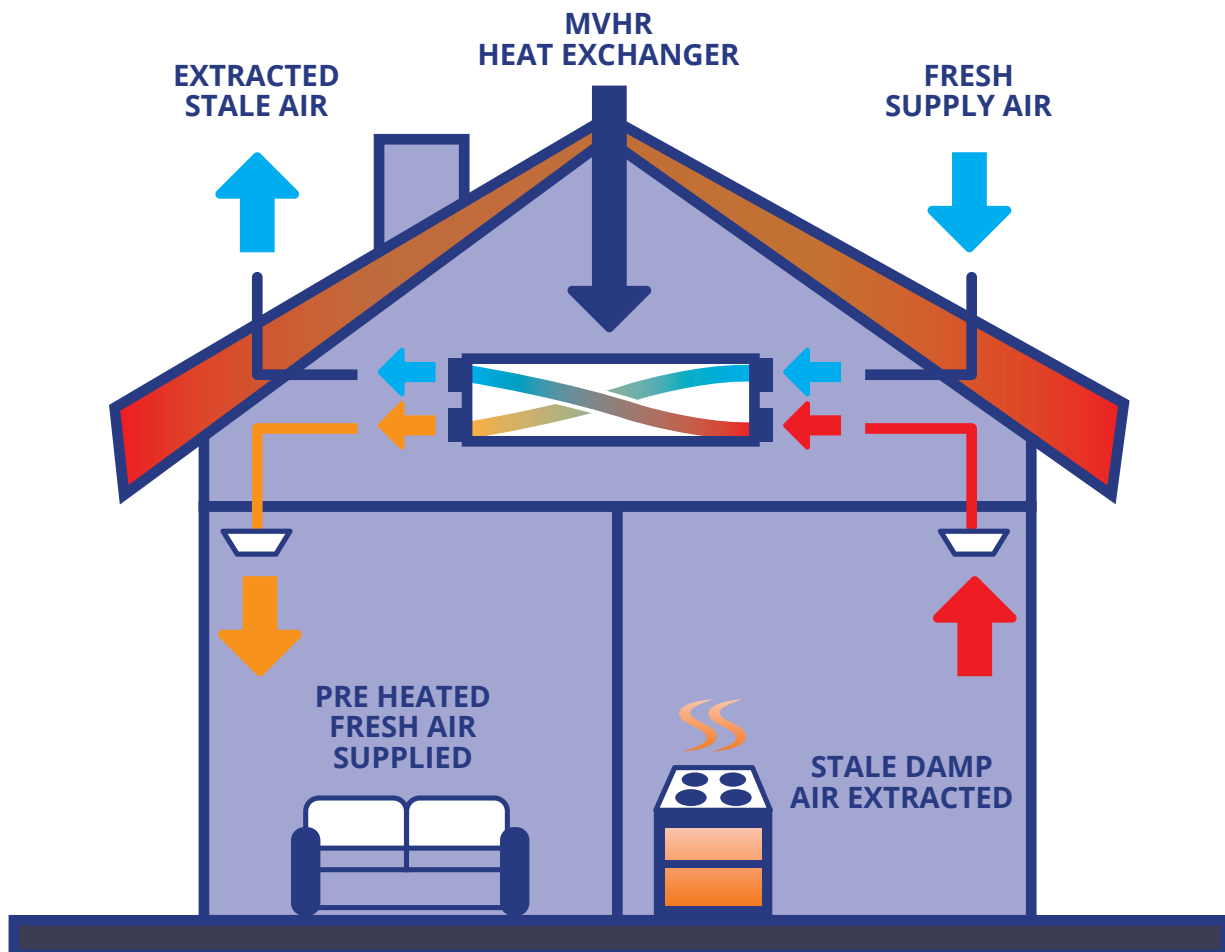
Your home has been designed to be airtight and warm. To keep it this way and fresh, it has a Heat Recovery (MVHR) unit. This is an essential part of your home. It will usually look something like this and be installed in a cupboard or loft space:



The MVHR system:

-  regulates the fresh air into and out of the home
-  stops the internal environment from becoming stale
-  is energy efficient - heat is recovered from the extracted air and used to warm the supply of fresh air (air streams do not cross and only fresh air is returned to the property)

They work like this:



This exchange of air is good for both your home and you. It protects us from what we breathe in – filtering out allergy causing particles like pollen – and the protecting the fabric of our homes from moisture generated through cooking, showering and drying clothes.

Your MVHR unit has filters which:

- Filter incoming air to ensure a healthier living environment with greater relief for allergy sufferers
- Filter extracted air to remove contaminants and prevent damage to MVHR components

Maintaining Your Filters

- Clean filters ensure that your system remains quiet and energy efficient
- Filter life can be prolonged by gently vacuuming them monthly
- Filters should be replaced every 6 – 12 months
- If not changed regularly they can look like this →



Some units have a time indicator to remind you when filters are due to be replaced – remember to check it is reset every time you replace your filters.

Replacing Your Filters

- Check our YouTube channel to see whether your unit is featured*
- One filter is usually cleaner than the other, why?

Air from outside (the supply side) of the unit will contain more contaminants – dust and debris

Air from inside your home (the extract side) is cleaner but will still clog and discolour over time

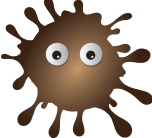
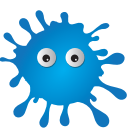


Filter Options

Filters are classified according to the size of the particles they are designed to screen, common grades are G3, G4 and F7 (the finest of the three)

There is also the new ISO classification grades by particle size – the lower the number the smaller the particle

To meet the new ISO classification filters must screen at least 50% of particles. **See the chart below for a guide:**

*www.youtube.com/c/EpicairCoUkbathroom-extractor-fans/videos

Current F/G Classification	G3	G4	F7	*NOX F7-9
New ISO16980 Classification	ISO Coarse	ePM 10	ePM 2.5	*ePM 1
	i.e. >10µm hair = 70 µm	i.e. Coarse Dust/Pollen	i.e. Fine Dust/Pollen	i.e. Combustion particles
				

**NOX F7-9 added as external components when specifying a new heat recovery installation.

What Filters to choose?

The various filter types which you can fit in your heat recovery unit is dependent on the model you have. i.e. you can upgrade from a G3 filter to a F7 if pollen and pollution is a problem in your area albeit not all models of heat recovery units have F7 filters available. Below is a brief summary of the characteristics for each type.

G grade filters i.e. G3 and G4 are suitable for filtering visible coarse particles such as coarse dust, sand, hair, insects and other organic matter. These are efficient for particles greater than 10 µm.

These particulates reach the respiratory tract, are absorbed by the mucus and can cause irritations.

G4 filters offer slightly more filtration efficiency over G3's but still do not filter for fine dust, pollen etc. For that, a F grade filter would be required.

F grade filters i.e. F7 are suitable for filtering fine dust, pollen, carbon black, spores and various fine particles. Generally you will only need to fit a single F7 filter on the supply (incoming air) side of the unit. This is because the majority of particulates and dirt will obviously find their way into the home from outside. In this situation a G4 filter would be fitted to the extract side and an F7 to the supply side.

Please fix this sticker next to your unit for future reference:

FILTERS REPLACED 

DATE: **MODEL NO:**

**FOR REPLACEMENT FILTERS
OR ADVICE**

EPICAIR 01892 600121
www.epicair.co.uk
info@epicair.co.uk

For additional information and advice, please feel free to contact us:

EpicAir Ltd, Unit 4 Hartley Dyke Business Centre, Hartley Road, Cranbrook, Kent, TN17 3QG

• 01892 600121

• www.epicair.co.uk

• info@epicair.co.uk