



# MVHR SPECIALISTS

*Design–Supply–Install–  
Commissioning–Servicing*

[www.earthwiseconstruction.co.uk](http://www.earthwiseconstruction.co.uk)





# MVHR: ELEVATING HOME COMFORT, HEALTH, AND EFFICIENCY

*MVHR (Mechanical Ventilation with Heat Recovery) systems are designed to achieve both home comfort and sustainability.*

They efficiently manage indoor air quality and energy usage, offering a range of benefits that redefine modern living, enhancing comfort, promoting health, and protecting homes.

1. *Alleviating allergies* like hay fever and asthma with excellent air quality provided by high-grade F7 filters.
2. *Maintains indoor comfort and health* with fresh, near-room temperature air while reducing CO2 and removing pollutants.

3. *Prevents mould growth* by reducing humidity
4. *Prevents cosmetic and structural damage* caused by excess condensation.
5. *Automatically adjusts indoor conditions* through smart sensors for optimal comfort and efficiency.
6. *Lower energy consumption and heating bills* due to highly efficient heat recovery that retains up to 96% of extracted air's heat.
7. *Low maintenance*; units boost automatically based on humidity changes.
8. *Air drying clothes indoors* is possible without a tumble dryer.
9. *Supporting environmental sustainability* and combating climate change by reducing energy use and greenhouse gas emissions through heating and ventilation.
10. *Low running costs* of just £40–£60 per year.



# MVHR UNITS

*We've worked with many different MVHR systems over the years and have seen it all in terms of quality.*

Our experience shows us that it's worth investing in an MVHR unit that will stand the test of time. For this reason, we recommend Zehnder ComfoAir Q units.



## WHY THE ZEHNDER COMFOAIR Q?

*Quietest on the market* – ComfoAir Q's sound performance of 28\*dB(A) means one competitor unit is equivalent to eight ComfoAir Q units in operational noise!

*Adaptable to each individual installation* – Intuitive start up wizard offers a simple installation process on-site, including left and right hand configuration in one single unit, wall mounted or free standing on mount.

Zehnder ComfoAir Q units have been *independently tested and certified by the Passive House Institute*, ensuring reliable and effective performance with minimum running costs.

*Automatic calibration* to keep the system balanced and at the same level.

*Unique modulating summer bypass feature*, designed to deliver comfort all year round.

High-performing heat exchanger with up to *96% heat recovery*.

*Patented sensor technology* to balance air volume.

*Modern app control* (iOS and Android).

*Optimised hygiene and pollen filters* as standard.

*Integrated humidity control.*



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EARTHWISE IS  
EXPERIENCED IN  
HIGH-QUALITY ECO-  
REFURBISHMENT  
AND RETROFIT  
TO PASSIVHAUS  
STANDARDS

*Friendly, professional, flexible – able to tackle any challenge – particularly unique is that Earthwise is experienced in high- quality eco-refurbishment and retrofit to PassivHaus standards.*

M. Spring



# DUCTING

*When choosing the ducting system we will look at your plans for your project and then recommend the most appropriate system.*

These can be broken down into:



## 90mm Semi-Rigid Ducting (radial)

We use the best quality semi-rigid ducting.

Strong and air tight with very few connections (protected by seals).

Anti-bacterial and anti-static lining, avoiding potential mould infestation that can occur with PVC ducting.

Easy and quick to install - can be routed through stud walls, floors, vaulted ceilings etc.

High-quality food-grade polyethylene, much more efficient than PVC due to smooth inner bore.



## Rigid Metal Spiral Wound Ducting (branch)

Extremely durable.

Smooth ends for better air flow.

Double sealed for airtightness (rubber seals).

Anti-bacterial surface.

Smooth inner surface.

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KNOWLEDGEABLE,  
POLITE AND KIND

*Answered all my questions and  
dealt with the job efficiently.  
Would highly recommend.*

S. Allen



## INTAKE AND EXHAUST DUCTING

*We use highly insulated EPP ducting:*

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Easy and quick to install.

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Airtight.

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Exceeds building regulations.

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Perfect for premium self-build or Passive House developments.

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Simple push fit connection.

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Lightweight and easy to handle.

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No sealant or tape required.

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Minimal components to simplify installation.



# CONTROLS

## ZEHNDER COMFOCONNECT LAN C INTERFACE

Enables controlling and programming the system via ComfoControl app (for iPhone/Android devices) from a smartphone or tablet.

Monitors and controls ventilation flow rates, temperatures and external sensors.

Service and maintenance alerts direct to your phone.

Remote access of your MVHR from anywhere in the world.

Enables us or Zehnder to remotely access your system to aid with any technical issues.



# THE COMPLETE TURN-KEY MVHR PROCESS

*Design – Supply – Install – Commissioning – Servicing*

3

## DESIGN SIGN OFF

Once you are happy and have signed off on the design, 35% of the cost is due for materials and we will book in a date for your 1st fix installation works.

1

## ACCEPT YOUR QUOTATION

Reply to your quote email to accept you are happy to proceed. At this point, you will be sent payment instructions for a 25% deposit to cover design work. DWG files (architectural & structural plans) are required at this stage.

2

## DESIGN WORKS START

Design work normally starts within 2-3 weeks of paying your deposit. Your MVHR designer will work with you to issue an initial design of your system, including duct runs.

4

## SUPPLY OF MATERIALS

Materials are normally sent on pallets which contain all the necessary parts needed to complete the 1st fix installation and are delivered to the site the week before our 1st fix visit.

5

## INSTALL: 1ST FIX VISIT

This usually takes a week (longer for larger systems). All ducting is installed back to the position of where the MVHR unit will be. Air valve locations are set and intake and exhaust ducts (that go to the outside of the house) are usually installed. We will need to install ductwork before any 1st fix plumbing and electrics takes place.

6

## SUPPLY OF THE MVHR UNIT

30% of the cost is due, prior to the supply of the MVHR unit and before the 2nd fix takes place. This is normally sent to you on a pallet and needs to be stored somewhere safe and dry.

7

## INSTALL: 2ND FIX VISIT

This usually takes 1-2 days and happens after your plastering has taken place, and normally at the same time as 2nd fix electrics and 2nd fix plumbing. This will involve installing the MVHR unit/s and completing remaining duct work.

8

## COMMISSIONING

This can take up to a day and happens at the very end of your project. A specialist Earthwise engineer will balance all the air flows in the system and ensure it is performing as designed. They will carry out a full hand over with you, which will involve showing you how to operate and maintain the system.

9

## COMPLETION

The final 10% of the cost is due once the design, supply, install and commission processes are complete. At the end of the process, we will send you a certificate and report for Building Control.

## SERVICING

Ensure optimal performance with our professional servicing options.

[Book in your servicing via our website.](#)



Thank you for giving us the opportunity to assist with your MVHR requirements.

This short document provides information about us, our recommended MVHR units and materials, and outlines the process you can expect if you work with us.

**“  
IT WASN’T AN  
EASY JOB BUT  
THEY MADE IT  
LOOK EASY!**

*They have brought an enormous amount of joy to a very stressful self-build. They were professional, helpful, prompt, tidy and a pleasure to have on site*

V. Redmond

# WHY CHOOSE EARTHWISE?

Over 12 years' experience in MVHR.

One-stop-shop: Design, Supply, Installation, Commissioning, Servicing.

Coverage across England & Wales.

We employ highly skilled designers and engineers for every project stage, unlike many competitors we handle installation in-house.

One of few approved Zehnder service partners.

Construction expertise gives us holistic knowledge of your entire project and how MVHR fits within it.

Installations carried out in line with Passive House best practice





# THANK YOU

To work with us, or ask further questions, please contact:  
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