

Step 4

The next step in ventilation design is to decide where best to locate the MVHR unit. Often it can be located in a loft, however, if there are vaulted ceilings an alternative location is needed, such as a utility room.



MVHR can often be located in a loft. However, if a project has vaulted ceilings another location is needed.

Step 5

Next it is important to work out where to locate risers and ducting. When designing the ventilation for the property, National Ventilation talks to the contractor about where to run the ducting. If there are vaulted ceilings there will be no ceiling voids to run ducting. As an alternative ducting can be run through webbed eco joists, however, if this is not an option National Ventilation would discuss with the contractor other solutions such as running the ducting between floors or within stud walls.



Ducting can be run through webbed eco joists.

Step 6

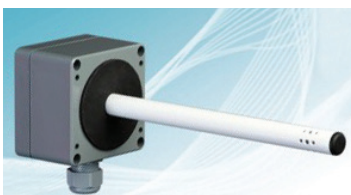
Having decided on ducting location, the next step is to decide whether to use rigid or semi-rigid ducting. Semi rigid ductwork, such as National Ventilation's Monsoon Radial ducting, is ideal for smaller developments since it is flexible, robust and up to 60% quicker to install. This type of ducting also means fewer mistakes, since even a novice can install it to a high standard, resulting in an airtight installation and improving system performance. With a plethora of plenums and accessories this system can overcome over 99% of issues that may occur on-site.



Semi rigid ductwork is ideal for smaller developments.

Step 7

The next step is consider controls. Traditionally MVHR is often boosted on bathroom lighting, however, not every bathroom visit is a shower or a bath and so systems can boost unnecessarily. As an alternative National Ventilation therefore offers a more efficient control method with an in-duct humidistat fitted in the ducting which means the boosts only triggers when humidity rises. An in-duct humidistat also takes less time to install and is more cost-effective as less wiring is needed to install it since electricians only need to wire the humidistat back to the fan because the fan is constantly on, drawing air from the bathroom.



An in-duct humidistat offers efficient control.

Step 8

Once the initial design is complete National Ventilation will send the design and quote to the contractor's electrical wholesaler. This is supplied with detailed calculations, proposed ducting layout, where to put the MVHR unit and risers and how to control the unit.



Once a ventilation system is designed National Ventilation supply the design and quote.

Step 9

However, although a design may appear correct on paper it is vital to ensure a design works on-site. Quite often architect plans only tell half the story and contractors can often be caught out if things such as steels don't show up on the original plans. The knock-on effect of this can be a need for additional materials that haven't been considered in the original calculations. National Ventilation's BPEC accredited project managers therefore carry out a free pre-order site visit to ensure the design will perform as Intended. This visit is a great trouble shooting exercise and is also a good opportunity for the electrical contractor to learn more about the Installation process. By using a free planning and advice service, such as the one offered by National Ventilation, electrical contractors can be safe in the knowledge that they are installing a well-designed system and will have a point of contact that will assist them throughout the whole job.



For more information about the planning and advice services on offer from National Ventilation visit: www.nationalventilation.co.uk

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