

# HOMECAIR

## VENTILATION AND VACUUM



Ken McCullagh  
Clonlea Lodge  
Dublin

30<sup>th</sup> November 2016

Dear Ken,

Thank you for your request for information and a quotation on our Villavent Heat Recovery Ventilation and Central Vacuum Systems.

For 13 years we have been setting the standard while installing our HRV systems into the ever increasing number of modern, energy efficient homes, with our system having several benefits over others.

- Market leading Double Skinned Ventilation unit with the highest Scandinavian build quality available.
- Ventilation System Capacity based on the highest European standards.
- Negates the need for inefficient trickle vents and noisy extractor fans.
- Counter flow & Rotary Heat Exchangers.
- Automatic Summer Bypass.
- Our new RadiCal EC fans: ultra quiet, ultra efficient.
- Acoustic and thermally insulated ducting fitted as standard.
- EU7 Fresh air Filter with Allergy approval.
- Heater element fitted as standard.
- Complete design, installation and commissioning service provided. Homecare Systems Ltd has developed our experience in design, installation and commissioning of Villavent Systems into homes for 13 years. As such we can offer a complete and superior service to all our customers. We ensure all our installations are fitted with the highest level of care and expertise.
- We have a further 40 years experience to call on, gained from the operation of these systems in Scandinavia and North America.

The pioneering Rotating Heat Exchanger is designed by a Scandinavian company specialising in whole house ventilation and heat recovery for over 40 years.

Please do not hesitate to contact me with any queries.

Yours, Eugenio Mallon.

Mob 07921398433

.....  
Homecare Systems Ltd  
Unit 3, TVI Business Park  
Donaghmore  
Co Tyrone  
BT70 2UD  
028 87769111  
[www.homecaresystems.biz](http://www.homecaresystems.biz)

Source:



Ken McCullagh  
Clonlea Lodge  
Dublin

30<sup>th</sup> November 2016

## Quotation M1611 Homecair Heat Recovery Ventilation System

We offer the following prices in accordance with the stated conditions, technical data and specifications.

<b>Unit 1x VSR 300 EC</b> Comprising: <ul style="list-style-type: none"><li>✓ Market leading insulated ventilation unit;</li><li>✓ Superior rotary high efficiency heat exchanger;</li><li>✓ Supply and exhaust fans with new ultra quiet Award winning produced RadiCal EC fans.</li><li>✓ CD Remote touch control panel with Digital display, intelligent customisation and Performance interface.</li><li>✓ Automatic Summer By Pass</li><li>✓ Allergy Approved EU7 pollen filter</li><li>✓ ErP 2016 &amp; 2018 compliant</li><li>✓ Eurovent Certified</li><li>✓ Fully rigid and acoustic ducting.</li><li>✓ Expert installation by our experienced engineers;</li><li>✓ Acoustic silencers on both the supply and exhaust;</li><li>✓ Up to 7 supply registers;</li><li>✓ Up to 5 extract registers;</li><li>✓ Intake and discharge grilles for soffit or wall installation.</li></ul>		<b>Optional Extras Per Unit:</b>  ELFI 400K Electrostatic Filter:  Fully Insulated Supply Ducting: (if cooling required)  Spare Filters:  Additional Electronic Control panels for key areas/rooms:  Additional 12m cable & connector  <b>Comfort Cooling with 4kw output external unit</b>  Complete kit (pipe work & unit)  <b>Slate vents where required are charged at an Additional £50.00 (excl VAT) each.</b>	
<b>Price Installed</b>	<b>£4,330.00</b>		
<b>Commissioning</b>	<b>Incl with installation</b>		

**These prices exclude any fire dampers, cooling unit and condensate drain and VAT.**

### Cooling Installation exclusions (required by others):

- 20 amp power supply to external unit
- condensate drain hose
- three core and earth (1mm) from thermostat position to internal coil adjacent to Heat Recovery Unit

*First visit to 1st fix* the ductwork (laid on trusses) and situate the heat recovery ventilation unit. The structure must be weather tight (roof on) and after the floors are down, prior to the ceilings going up on the ground floor and when the partitions are up or marked out on the first floor.  
*Second visit to 2nd fix* the controller, fit the supply/extract louvres, and connect up the electrics. This is carried out prior to decoration but when there is power on.

Source:

**Quotation M1611**  
**Heat Recovery Ventilation System**  
**Supporting Information**

**Heat Recovery Ventilation Installation Exclusions (required by others):**

This quotation excludes all associated builders work, boxing in of ducting, coring of concrete slab and cavity walls, trimming and cutting of joists, access traps, installation of external intake and discharge grilles or roof cowls (including supply & fit of tile vents), installation and connection of condensate drain, supply and installation of electrical supply. The provision of suitable mounting platform.

**Heat Recovery System:**

Villavent are able to call upon its five centres of manufacture in Scandinavia, Europe and North America to offer you a product that is of the highest quality and competitively priced.

At the heart of the system, the unit is constructed from double skinned galvanised sheet steel with a sandwich of insulation to provide high thermal installation and quiet operation.

Although our VM range offer heat recovery efficiency of over 90% with its "Counter flow" heat exchanger we recommend our "Revolutionary" VR range which whilst the technology is used in Commercial Markets is relatively new to the UK domestic housing market.

Leading the way for over 40 years and since 1984 in the UK, Villavent now offer a full range of wall, ceiling, cookerhood and loft mounted high efficiency 85%, no condensate drain needed and automatic summer bypass units for today's energy efficient healthy home

**Ductwork:**

Duct work is generally available in 2 types: rigid, semi-rigid.

Villavent recommend both Rigid or semi-rigid (typically supplied in 3 m lengths compressed to 1m)

These ducts in turn generally come in 3 forms: plain, insulated and acoustic. **Plain** for normal usage (within the main insulated envelope of the house) **insulated** where heat loss or condensation could occur and **acoustic** to prevent noise transference.

Semi-rigid duct is specifically chosen by Villavent in general as it comes pre-fitted in all 3 forms and does not need separate fittings for bends (30, 45 or 90 degrees).

**Cookerhood:**

In today's modern home the cookerhood is usually part of the kitchen fit-out to enable total flexibility or preferred design.

This enables the grease and heavy cooking smells to be expelled to atmosphere from source. We have a ceiling extract louver to collect the warm air from this area limiting the amount of grease we pull into the system.

Should it be desired that a cookerhood is made part of the system we do have a selected range of units that are designed for this purpose. Stand alone, motorised extractor hoods, cannot be linked into our system

**Building Regulations:**

April 2006 has seen a major change in the way ventilation requirements are set to meet the modern well insulated home.

The necessary ventilation requirements are set out in Approved document F 1.1 to 1.14 and these clearly state the minimum requirements for both extraction of stale air and the provision of supply air. The number of bedrooms in a dwelling is also relevant to the airflow required.

These regulations have been introduced with energy usage in mind which impact in part L (Energy Efficiency) of the building regulations and SAP (standard Assessment Procedure) ratings which work out the CO<sub>2</sub> consumed by a building in energy terms, and award a pass or fail. Since April 2007 all new dwellings must have a SAP rating.

As the regulations make no reference to the air quality or amount of air required to be healthy, Villavent will always calculate on providing airflow above these minimum standards which is especially relevant if Comfort Cooling is chosen as more airflow is required to provide this benefit.

**Comfort Conditioning:**

Villavent have been pioneers in this field since the start of the new millennium.

Ventilation to our homes is now more important than ever before as we continue to fit better insulation and seal up our dwellings in an effort to reduce energy consumption.

Controlled balanced ventilation is mandatory to "Comfort Conditioning" as it operates throughout the home 24 hours a day! Simply put, it is in the **"ability to choose the level of Comfort we require in our homes"** (and is made up of 5 key points):-

- **Heating**
- **Heat Recovery Efficiency**
- **Noise levels**
- **Filtration**
- **Cooling**

Contact our office for expert advice on how to achieve the right balance for you.

**Comfort Cooling – Internal or Externally Mounted Units:-**

Source:

With successful installations over recent years we now recommend the external unit. This has the advantage of an externally mounted unit, preventing noise from entering the building and better levels of cooling being delivered via a higher level of ventilation. Internal units are also available to suit individual circumstances and budgets

Full technical information is available on request.

**ELFI Filter:**

With ever increasing concern given to the quality of the air we breathe, an additional filter can be supplied. The ELFI electrostatic filter takes out 97% of airborne particles as small as 0.1 micron i.e. pollen, bacteria, smoke, viruses, country odours, traffic fumes, etc. thus making it a sound investment for those who suffer from allergies and who have young children.

**Control Panel:**

Our electronic loft mounted and wall mounted range of HRV units incorporate the most innovative 'user friendly' and intelligent controls available on the market today. From the control panel you can see what is happening within the HRV unit.

**Fan Speed Selection** can be made from minimum, normal or maximum with a unique option to customise fans speeds to suit individual requirements.

**Supply Air Temperature** can be adjusted in cold external conditions to ensure supply air temperature between 15° and 20°C. A light indicates if a heater is fitted, in operation.

**Service Indicator;** this is illuminated on the controller when the filters require cleaning/replacement. This is usually factory set to 9 months but can be adjusted to either 6 or 12 months, dependent upon the likely contamination/cleanliness of air required.

With the electronic controls only a low voltage wire (supplied in 12m cable) is required and additional controllers may be purchased for different areas of the house (1 per floor for instance). The last activated controller will be the command.

**Installation:**

We supply acoustic silencers for installation on the supply, extract and discharge ducting to minimise noise levels.

**Design:**

Our CAD design layout is available, *(when your system requirements have been agreed and the prices confirmed)* currently around 10+ working days. Please email your drawings to [info@homecaresystems.biz](mailto:info@homecaresystems.biz), if available, on CAD (Autocad R14 – DWG format) so we can start on your drawings, once your order confirmation is received, without delay. Alternatively, we can 'scan in' your photocopied drawings.

**The quotation allows for a maximum of two issues of 'For Approval' and one issue of 'For Construction' CAD drawings to be generated. If further drawing work i.e. revisions are necessary then this will be charged for at £75.00 nett per issue.**

**Fire Regulations:**

Our quotation **excludes fire dampers**. These are only necessary to comply with The Building Regulations 1991 - Fire Safety (2000 Edition) Part B, BS 5588 Section 9 referring to Part 1, Section 2, Clauses 6 (three storey houses) and 15 (flats/ maisonettes) **for ducts travelling through a protected stairwell**.

If you are planning to develop the loft space for habitable rooms or have two levels above the ground (three storey), then you may wish to consult your local Building Control for their thoughts.

**Payment Terms:**

Where no business trading account is operational and credit status approved, a cheque with order is required for the full amount including carriage and VAT for supply only. If our installation service is required, a deposit of 75%, of the materials, carriage and labour, is requested with order (75% of the necessary materials are installed at 1<sup>st</sup> fix) with the balance payable prior to second fix.

**Guarantee:**

All Villavent Heat Recovery Systems are covered by guarantee for 2 years.

**Validity:**

The quotation is valid for 6 months from the date of this quotation. Our prices are based on your floor plans submitted. If there are any changes to this layout we may have to re-calculate the final contract price.

**Delivery:**

Delivery is typically 10 working days from receipt of Order, payment and issue of For Construction drawings.

**Conditions:**

The despatch period is subject to the conditions that the official order and payment, together with all contractual documents has been received and accepted by Homecare Systems Limited – currently 10 working days.

This quotation is subject to our standard conditions of sale and maybe withdrawn, cancelled or varied by the seller at any time.

Yours,

.....  
Eugenio Mallon