Continuous Mechanical Extract
An MEV/CME system works by continually extracting stale polluted air from rooms where moisture is generated.

Fresh air is normally provided from outside to habitable rooms by trickle ventilators fitted on windows, creating a flow of clean fresh air throughout the dwelling. The extract air is ducted from "wet rooms" to the outside and the extract rate is normally boosted at times when excessive moisture is being generated, such as when cooking or bathing. Titon offers solutions for both centralised and decentralised continuous running extract systems.

Centralised - Mechanical Extract Ventilation
CM2 Q Plus

- SAP Appendix Q eligible and EST Best Practice compliant
- Total airflow 490 m³/h at 100Pa
- Compact – unit is very small and can be fitted in cupboards or loft spaces
- Integral humidity sensor option
- First fix base version available
- Only unit in the market with rectangular spigots connecting ports suitable for rectangular ducting
- Low energy, long life EC-DC motors

Decentralised - Mechanical Extract Ventilation
Solitude (Constant Flow) and Solace (Non-Constant Flow)

- The most efficient dMEV fan on the market
- *SAP Appendix Q eligible
- Low energy, long life EC-DC motors
- 100mm bathroom/kitchen extract fan
- Aesthetic flat front cover design
- Energy efficient EC brushless motor
- Optional integral humidity sensor and/or timer
- Extract rates of 21/29/47/83 m³/h
- Sound pressure dB(a) @ 3m
- SFP down to 0.09 w/l/s

Filtration - Trimbox NO₂ Filter®
Titon’s Award winning Trimbox NO₂ Filter® reduces Nitrogen Dioxide (NO₂) which is predominately produced by exhaust gases from diesel engines.

Due to this pollution arising in cities and urban areas there is a need to implement mitigation measures to improve the indoor air quality (IAQ). The Trimbox NO₂ Filter® is an effective means of reducing high NO₂ to an acceptable mean annual concentration level of 40µg/m³.

- Effective in reducing pollutants in the home, improving Indoor Air Quality (IAQ) and reducing the risk of Toxic Home Syndrome
- Low pressure drop
- Low cost
- Optional F7 filter can be installed to further improve IAQ
- Compact design
- Compatible with Titon’s range of MVHR units
- Fully lined box to reduce duct bound noise and condensation
- The unit can be installed in both intake air and supply ducting
- Fitted with either 3 or 4 active carbon filters
- F7 filter reduces up to 95% of PM2.5 particles
- G4 filter reduces 100% of PM10/35% of PM2.5 particles
- 98% NO₂ reduction at pre filter concentrations of ≈ 200μg m³
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- F7 filter reduces up to 95% of PM2.5 particles
- G4 filter reduces 100% of PM10/35% of PM2.5 particles

Ducting - Rigid, Semi Rigid & Self-Seal Thermal
Titon offers a comprehensive range of ducting, terminals and accessories to complement fan units and we advise you ensure the appropriate components are selected in accordance with Regulatory, Best Practice and SAP Q requirements.

The range includes Titon exclusive product for more efficient performance. Comprehensive advice is available from Titon on request. Using ducting or duct accessories from other sources may compromise system performance.

Self Build Projects
Titon has supplied many units to self build projects, either directly to the customer/contractor involved, or via self build ventilation specialists. These organisations ensure the unit is correctly specified, the system is designed to provide the ventilation levels required and that the finished installation functions as it should. These Titon ‘Preferred Installers’ have a huge amount of experience in domestic ventilation and can work on projects anywhere in the UK.

- Contact our Preferred Installers or visit www.titon.co.uk/selfbuild for further information.
- Send drawings to our preferred installers with timescales and planning stage.
Where can it be used?

MVHR is an energy efficient solution for the provision of controlled ventilation in residential and commercial properties with a number of features over traditional ventilation products, such as automated control and summer boost. Specifically designed to meet modern building regulations and energy efficiency objectives. This system is designed to capture the heat that is otherwise lost through ventilation to reduce heat demand particularly in more airtight buildings.

How does it work?

The centrally located continuously running continuous mechanical supply & extract with heat recovery otherwise known as ‘MVHR’Are Titon MVHR units Passivhaus tested?

Yes, some are, but not for full Passivhaus certification purposes except for our HRV 3 which was certified in March 2018. Very few properties in the UK are built to full Passivhaus certification levels. However, many are built with facets of Passivhaus performance in mind.

To this end, we have had our MVHR units tested according to TÜV SÜD standards, including important elements of the Passivhaus testing regime, which are recognised throughout Europe for strict test criteria and commitment to quality. Titon units can achieve the actual ≤1% leakage recorded during testing in Munich and therefore we can offer this ‘PHI’ specification if required. Please contact us for details. It is important to note all Titon MVHR units are rigorously and individually tested under strict conditions to ensure they perform to a high standard.

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Controls and switches

- **auraT®**
  - Low voltage LCD display with user friendly interface. Available in multiple languages, with 7 day and 6 programmable fan speed settings.

- **auramode®**
  - A low voltage intelligent LCD controller for system information and set up which is wired to, but sits remotely from the HRV Unit.

- **aurastat®**
  - A low voltage switch to change between setback, continuous or boost running speeds. The switch is wired to, but sits remotely from the HRV unit.

3 speed switch

- **Humidistat**
  - Set to put the unit in boost when a predefined level of relative humidity is met. Wired to, but sits remotely from the HRV unit.

- **Sensors**
  - CO₂, Temperature, Humidity and Air Quality sensors are all available in conjunction with our aurastat®. Creating Demand control when you need it.

Passive House is a recognised standard for highly efficient products and low energy buildings.