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 continuously running extract systems.

Centralised - Mechanical Extract Ventilation

CME2 Q Plus

- 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)

- 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
  11/13/23/32
- 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 m⁻³

Single Room Heat Recovery

The new SR700 from Titon is a decentralised ventilation with heat recovery system providing a continuous air change to your home. Extracting stale, moist air and replacing it with warmed, fresh air from outside.

The system provides an easily installed and maintainable solution for removing internal condensation and eliminating mould growth within the home. Unlike regular extractor fans that waste 100% of heat that passes through from the home, the SR700 system will recover up to 94% of wasted heat.

Titon also offers a wide range of accessories for its expansive MVHR range

<table>
<thead>
<tr>
<th>HRV Condensate Drain Cover</th>
<th>Sound Attenuating Flexible Ducting</th>
<th>HRV First Fix Solution</th>
</tr>
</thead>
</table>

Titon operates a policy of continuous improvement and reserves the right to supply products that may differ from those illustrated and described in this publication.
Ventilation with Heat Recovery otherwise known as ‘MVHR’

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 energy efficiency objectives. Our units are equipped with the latest low energy EC-DC motors, some are available with constant flow EC-DC motors as standard.

How does it work?

The centrally located continuously running ventilation products, such as automated control and occupancy control for system information and set up which is wired to, but sited remotely from the HRV Unit.

Are Titon MVHR units Passivhaus tested?

Titon’s MVHR units are fully certified to Passivhaus, other units within the range are Passivhaus tested but not fully certified. Very few properties 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 NÜO standards, including important elements of the Passivhaus testing regime, which are recognised throughout Europe for strict test criteria and commitment to quality.

Controls and switches

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Width</td>
<td>600mm</td>
<td>600mm</td>
<td>715mm</td>
<td>715mm</td>
<td>715mm</td>
<td>790mm</td>
<td>800mm</td>
<td>780mm</td>
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<td>744mm</td>
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<tr>
<td>Height excl. Ports</td>
<td>430mm</td>
<td>508mm</td>
<td>490mm</td>
<td>490mm</td>
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<td>665mm</td>
<td>675mm</td>
<td>665mm</td>
<td>675mm</td>
<td>692mm</td>
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<tr>
<td>Depth</td>
<td>265mm</td>
<td>364mm</td>
<td>415mm</td>
<td>415mm</td>
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<td>495mm</td>
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<td>Housing</td>
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<td>Zintec Sheet</td>
<td>Zintec Sheet</td>
<td>Zintec Sheet</td>
<td>Zintec Sheet</td>
<td>Expanded Poly</td>
<td>Zintec Sheet</td>
<td>Expanded Poly</td>
<td>Zintec Sheet</td>
<td>Zintec Sheet EXP Poly</td>
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<tr>
<td>Weight</td>
<td>16kg</td>
<td>22kg</td>
<td>24kg</td>
<td>24kg</td>
<td>24.5kg</td>
<td>17.5kg</td>
<td>31kg</td>
<td>18kg</td>
<td>31kg</td>
<td>32kg</td>
<td></td>
</tr>
<tr>
<td>Specific Fan Power (down to)</td>
<td>0.65 W/I/s</td>
<td>0.48 W/I/s</td>
<td>0.56 W/I/s</td>
<td>0.52 W/I/s</td>
<td>0.66 W/I/s</td>
<td>0.48 W/I/s</td>
<td>0.48 W/I/s</td>
<td>0.39 W/I/s</td>
<td>0.39 W/I/s</td>
<td>0.24 W/I/s</td>
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<tr>
<td>Heat Recovery % (up to)</td>
<td>88%</td>
<td>89%</td>
<td>91%</td>
<td>90%</td>
<td>90%</td>
<td>92%</td>
<td>92%</td>
<td>92%</td>
<td>91%</td>
<td>94%</td>
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<tr>
<td>100% Summer Bypass</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
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<tr>
<td>Constant Flow</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>-</td>
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<tr>
<td>Energy Rating</td>
<td>A</td>
<td>A</td>
<td>A+</td>
<td>A+</td>
<td>A</td>
<td>A+</td>
<td>A</td>
<td>A+</td>
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<tr>
<td>Recommended Max. Floor Area (m²)</td>
<td>125</td>
<td>ENQ</td>
<td>170</td>
<td>150</td>
<td>230</td>
<td>230</td>
<td>180</td>
<td>180</td>
<td>220</td>
<td>220 ENQ 150 ENQ</td>
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<tr>
<td>Airflow (m³/h) at 100Pa</td>
<td>217</td>
<td>237</td>
<td>350</td>
<td>284</td>
<td>318</td>
<td>293</td>
<td>395</td>
<td>423</td>
<td>400</td>
<td>399 528 581</td>
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<tr>
<td>Sound Level (dB)</td>
<td>49</td>
<td>49</td>
<td>ENQ</td>
<td>46</td>
<td>47</td>
<td>49</td>
<td>50</td>
<td>51</td>
<td>50</td>
<td>56 80 80</td>
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<td>0-50V Connections for B variants</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Electrical power</td>
<td>230V – 50/60Hz</td>
<td>3A fuse</td>
<td>230V – 50/60Hz</td>
<td>3A fuse</td>
<td>230V – 50/60Hz</td>
<td>3A fuse</td>
<td>230V – 50/60Hz</td>
<td>3A fuse</td>
<td>230V – 50/60Hz</td>
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<tr>
<td>Duct heater connection</td>
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<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td></td>
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<tr>
<td>Ventilatory Heat Cell</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Required ducting Ø</td>
<td>125mm</td>
<td>125mm</td>
<td>150mm</td>
<td>150mm</td>
<td>150mm</td>
<td>150mm</td>
<td>150mm</td>
<td>150mm</td>
<td>200mm</td>
<td>150mm</td>
<td></td>
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<tr>
<td>Available - Left and Right handed</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
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</tr>
</tbody>
</table>

Is a simple yet powerful touchscreen LCD display for programming, commissioning and occupancy control for Titon’s MVHR units.

Low voltage LCD display with user friendly interface. Available in multiple languages, with 7 day and 8 programmable fan speed settings.

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

Titon’s Electric duct heaters are designed to heat clean air in ventilation systems. Casings are made from aluzinc coated steel which is high temperature proof.

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

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

-aura™

auramode®

aurastat®

Electric Duct Heater

3 speed switch

Sensors