Welcome to Titon Ventilation Systems. We are experts in the design, manufacture, specification and supply of residential ventilation systems. Our extensive range and comprehensive support will provide you with a solution for any housing project.

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About Titon

Titon is a long established company specialising in ventilation, it was founded in 1972 and is based in the UK. It floated on the London Stock Exchange in 1988 as Titon Holdings Plc and employs around 230 people between its UK operations and interests in Europe, USA and South Korea.

Titon manufactures and supplies a range of products including sophisticated energy conserving whole-house mechanical ventilation units, natural ventilation products and fittings for window and doors. The product ranges also include high performance and specialist solutions to deal with today’s most demanding builds where noise/air pollution and indoor air quality are our prime concerns.
Titon’s Ventilation Systems Division is dedicated to the design, manufacture, supply and specification of ventilation systems primarily for domestic use.

Titon’s innovative yet extremely efficient compact MVHR (Mechanical Ventilation with Heat Recovery) units offer whole-house ventilation to protect the home from harmful contaminants but also help ventilate to an acceptable level. To complement Titon’s range, Titon also offers a unique CME (or MEV, continuously running central extract) that is ideal for continuous extract of stale, damp and polluted air to the outside environment.

Titon Ventilation Systems have continued to expand its product portfolio with a number of new products coming through. With its Award winning Trimbox NO₂ filter⁰ that helps remove harmful nitrogen dioxide from entering a building, to the new HRV20 HE Q Plus, a highly efficient MVHR that has the most powerful airflow within Titon’s HRV range. Coupled with the new MEV, the CME3 Q Plus which is ideal for refurbishment or new housing projects and the new Purge Fan that achieves 4 air changes per hour. All showing Titon’s commitment to cater for their customers’ needs and requirements.

Titon Ventilation Systems can design bespoke systems on CAD using Revit to complete calculations to ensure air supply complies with current Building Regulations. Titon supports the NICEIC to ensure that our units are fitted to correct standards to allow for our MVHR/CME units to operate at their very best.

Titon’s expert design team works with Building Information Modelling (BIM) which is an ideal process for creating and managing information on a construction project. Titon also offers complete Revit models for all of its MVHR range as a simple single family model.

* HRV graphic may differ from illustration shown when actually purchased.
Titon has a strong sales and specification presence throughout the UK and overseas.

The company employs specialists for each market sector in regional locations, in order to give fast and efficient support to customers and specifiers. The sales teams have a technical background to assist in application problems and offer ‘hands-on’ advice.

Dedicated Sales and Technical Departments support the Ventilation Systems Division offering peace of mind to callers and have extensive product knowledge to aid our customers. The Design Office can receive CAD/Revit drawings of dwellings and provide detailed ventilation designs with calculated ventilation capabilities based on duct run lengths and unit settings.

Orders can be scheduled for specific plots on a development in advance and called off when required. This is unique in an industry where the traditional route to market is through wholesalers or distributors, who by definition cannot provide the same standard of service and expertise. It is therefore very important to the company to retain its existing research, design, development and manufacturing focus, benefiting the sales team with a more empathetic approach to market demands.

Titon prides itself on Regulatory and Standards knowledge, and can visit to disseminate this information in the structured and unbiased form of CPD Presentations. Titon’s position as experts on domestic ventilation is reinforced by the publication of regular email newsletters to update subscribers on new products, information and services. Subscription to these newsletters is easy via the Titon website, www.titon.com.

In addition some of the more popular products can be purchased online via TitonDirect, where the latest offers and products can be found, www.titondirect.co.uk.

Project specific technical data sheets available on request.
Quality & Testing

When it comes to quality, Titon is committed to excellence and the total satisfaction of its customers and their specific requirements. It strives to be an efficient supplier and to offer its customers a prompt, courteous and effective service. The company seeks to handle and deliver products and services in a manner that is not detrimental to the environment or to the Health and Safety of its staff, customers, or the general public both inside and outside its facilities.

Titon’s objective of consistent high quality performance is met by mandatory adherence to procedures, and Titon has full ISO 9001 Certification. This ensures standards are met and monitored in eight core quality management areas, including customer focus, leadership, the involvement of people, a process approach, a systematic approach to management, continual improvement, a factual approach to decision making and mutually beneficial supplier relationships. In addition, Titon also holds the ISO 14001 Environmental Management Standard Certification.

Titon has a large research, development and testing department in Haverhill, Suffolk. All of Titon’s products are subjected to a rigorous regime of quality testing to ensure they meet the performance criteria specified, as well as delivering reliability and optimum performance.

Perhaps uniquely in the Ventilation Systems sector, Titon whole-house units are tested on the production line to ensure performance and air tightness levels which match those achieved when each model was officially third party tested. This is true both of units being sold in the UK and those models subject to sometimes more rigorous testing for export into mainland Europe.

To enable Titon to demonstrate its quality, it will test products, wherever applicable, to the latest British and European standards – including full CE approval.

All our MVHR are electronically tested

All our MVHR are tested for air leakage
Mechanical Ventilation with Heat Recovery

**System 4**

Products in this section assist in offering compliance with Building Regulations (England & Wales) System 4

**Where can it be used?**
System 4 is suitable for new build houses and flats or apartments, usually in premium developments due to the higher cost of purchase and installation.

**How does it work?**
A centrally located continuously running mechanical supply and extract fan extracts air via ducts from moisture producing areas or “wet rooms” such as kitchens and bathrooms to remove odours and excessive humidity. This air is passed over a heat exchanger, which transfers a high proportion of the heat of the extracted air to the incoming air, which is then distributed to the habitable rooms via ducts.

Whole building ventilation is maintained by a constant flow of air between input and extract points. A boost facility provides rapid extraction when necessary to remove higher levels of pollutants. As an alternative, every room may have an individual unit as opposed to a centrally located and ducted unit. No background ventilators are required in this System.
The National Product Characteristics Database (www.ncm-pcdb.org.uk), delivered by the BRE, is the UK’s completely independent, reliable and recognised public resource available to help customers determine a product’s true technical achievement.

Each individual Titon Eco unit is shown in the test records within the PCBD as: “Summer Bypass - Yes”. This is only recorded in the database when the unit provides full and complete diversion of the heat exchanger. Titon Eco units registered as “Summer Bypass - Yes” are equipped with a thermal, automatic efficient summer bypass mechanism to prevent the transfer of unwanted heat between the incoming fresh air and the outgoing stale air at times when the dwelling internal temperatures are above an acceptable comfort level.

If the PCDB registers a product as “Summer Bypass - No” or “Summer Bypass - Unknown” the product may be lacking in comparable performance.
# HRV Overview

## Part Number

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### Other options

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*Performance may differ from standard unit. Enquire for further details.

**Available with onboard capabilities
### Explanation of Features

- **Normal**: Continuously running extract and supply, set on install in accordance with the requirements of the applicable Regulations.
- **Boost**: Increases ventilation rates on demand, set on install in accordance with the requirements of the applicable Regulations.
- **Setback**: Provides a reduced ventilation rate for dwellings that are unoccupied for a long period.
- **SUMMERboost®**: Only available with Eco versions, increases both the supply and extract to full speed when the automatic bypass engages.
- **Summer Bypass**: Titon Eco units are automatically controlled with a thermal bypass of the heat exchanger when indoor and outdoor temperature conditions make heat exchange undesirable.
- **Duct Pre-heater Control**: Used for the automatic control of in-line Duct Pre-Heaters to help prevent heat exchanger freezing.
- **Summer Mode**: Turns off the supply air, providing a thermal bypass on demand or via a remote thermostat (additional controllable background ventilation may be required).

### Ducting Size

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</table>

*Performance may differ from standard unit. Enquire for further details.

**Available with onboard capabilities.
For use in small to medium sized dwellings

The enhanced capacity ultra compact HRV1.25 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE.

Combining ultra low power consumption and a highly efficient heat exchanger, the HRV1.25 Q Plus is specifically designed to enhance SAP performance via Appendix Q - yet the unit remains small enough to be easily incorporated into apartments and smaller houses where space is at a premium.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

---

Features & Benefits

- Extremely compact
- Extremely low Specific Fan Power; down to 0.53 W/l/s
- Highly efficient heat exchanger; up to 88%
- Airflow up to 44 l/s (158 m³/h) at 100 Pa
- Accepts 125mm diameter ducting, no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- Removable airtight filter covers for easy filter maintenance (Standard and Eco model)
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented features and design
- Independent fan adjustment
- Intelligent controller, quick and easy to commission
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Basic version:
- Summer Mode

Eco Versions:
- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility
- Available in left and right handed configurations

Eco HMB Models:
- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
### Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.

SAP Appendix Q tested.

Exceeds requirements of Building Regulations Approved Document L (England & Wales).

EU RoHS Directive compliant.

Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)

CE Marked.

### Specification
Dimensions: 600mm wide x 430mm high (excluding ports) x 285mm deep (295mm with mounting bracket)

Weight: 16kg

Finish: White Paint

Materials:
- Housing: Zintec sheet steel housing, powder coated white
- Internals: Expanded polypropylene (EPP)
- Heat exchanger: Polystyrene
- Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
- Standard filters: Grade ISO Coarse 55% (G3) synthetic filters

Guarantee period: 3 years (UK only)

Electrical: 230V ~ 50/60Hz, 3A fuse

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Maintenance: Service and filter clean/replacement subject to local environment - see product manual.

### Acoustics
Full acoustic data available online www.titon.com/acoustics

### Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

#### Performance Chart

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
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</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
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<td>0.59</td>
<td>88%</td>
<td>0.68</td>
<td>87%</td>
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<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
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<td>87%</td>
<td>0.9</td>
<td>85%</td>
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<td>84%</td>
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</table>

Figures taken from the BRE Test Results.

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

### Nominal Fan Performance

- **Impeller Speeds**
  - 2009: 23 10
  - 2012: 41 18
  - 3 47 22
  - 4 57 31
  - 5 65 40
  - 6 75 59
  - 7 85 99
  - 8 100 110

- **Boost speeds 100% variable**

### Acoustic Data

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<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dBA @ 3m Hemispherical</th>
<th>dBA @ 3m Spherical</th>
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<td>% of Max flow</td>
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<td>22l/s @ 10Pa</td>
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<td>41</td>
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<tr>
<td></td>
<td>61%</td>
<td>34l/s @ 23Pa</td>
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<td>49</td>
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<tr>
<td></td>
<td>100%</td>
<td>56l/s @ 50Pa</td>
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</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in small to medium sized dwellings

The enhanced capacity ultra compact HRV1.35 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE and maintains an ultra compact size despite its improved airflow performance.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit enhances SAP performance via Appendix Q, and yet remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Highly versatile compact unit
- Extremely low Specific Fan Power; down to 0.65 W/l/s
- Highly efficient heat exchanger; up to 88%
- Airflow up to 66 l/s (239 m³/h) at 100 Pa
- Accepts 125mm diameter ducting, no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Enthalpy Heat Cell option available
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Setback facility to reduce ventilation where local regulations allow
- Intelligent Summer Bypass and humidity controls
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Lightweight for easy handling
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- SUMMERboost® facility
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco Versions:

- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility
- Available in left and right handed configurations

Eco HMB Models:

- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
**Product Codes**
HRV1.35 Q Plus HMB Eco auralite® & aura-t™ ready - TP408HMB/S44 (left hand config) or TP408HMB/RH (right hand config) - Energy Rating A
HRV1.35 Q Plus B Eco-aura controls ready - TP418B/LH (left hand config) or TP418B/RH (right hand config) - Energy Rating A
TP418BF (Filter Door) - Energy Rating A
TP418BC (Cold Climate) - Energy Rating A

Filters:
XP40032/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46022/099 - ISO Coarse 60% (G4) filters fitted on request. (Europe fitted as standard).
XP2011094/099 - ISO Coarse 55% (G3)/ISO ePM1 50% (F7) filters available on request.
XP2011095/099 - ISO Coarse 60% (G4)/ISO ePM1 50% (F7) filters available on request.

**Standards**
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.

SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

**Specification**
**Dimensions:** 600mm wide x 430mm high (excluding ports) x 285mm deep (295mm with mounting bracket)

**Weight:** 16kg
**Finish:** White Paint
**Materials:**
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3)
synthetic filters

**Guarantee period:** 3 years (UK only)

**Electrical:** 230V ~ 50/60Hz, 3A fuse
**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
**Maintenance:** Service and filter clean/replacement subject to local environment - see product manual.

**Acoustics:** Full acoustic data available online www.titon.com/acoustics

**Drawing & Dimensions**

**Performance**
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.65</td>
<td>88%</td>
<td>0.71</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.69</td>
<td>87%</td>
<td>0.92</td>
<td>85%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.84</td>
<td>85%</td>
<td>1.19</td>
<td>85%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>1.04</td>
<td>84%</td>
<td>1.55</td>
<td>84%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>1.25</td>
<td>84%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>1.53</td>
<td>84%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRV1.35 Q Plus Eco</td>
<td>65%</td>
<td>22l/s @ 12Pa 29</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>39l/s @ 38Pa 39</td>
<td>52</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
For use in small to medium sized dwellings

The enhanced capacity HRV1.6 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE maintains an ultra compact size despite its improved results.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit enhances SAP performance via Appendix Q, and yet remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Highly versatile compact unit
- Extremely low Specific Fan Power; down to 0.49 W/l/s
- Highly efficient heat exchanger; up to 89%
- Airflow up to 100 l/s (359 m³/h) at 100 Pa
- Accepts 125mm ducting no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Lightweight for easy handling
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco Versions:

- Intelligent Summer Bypass & humidity controls
- SUMMERboost™ facility
- Available in left and right handed configurations

Eco HMB Models:

- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
**Product Codes**
HRV1.6 Q Plus HMB auralite® & aura-t™ ready - TP409HMB/544 (left hand config) or TP409HMB/RH (right hand config) - Energy Rating A+
HRV1.6 Q Plus B Eco-aura controls ready - TP419B/LH (left hand config) or TP419B/RH (right hand config) - Energy Rating A+

Filters:
XP2010893/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP2010894/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP2011096/099 - ISO Coarse 55% (G3)/ISO ePM1 50% (F7) filters available on request.
XP2011097/099 - ISO Coarse 60% (G4)/ISO ePM1 50% (F7) filters available on request.

**Standards**
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

**Specification**
Dimensions: 600mm wide x 505mm high (excluding ports) x 353mm deep (363mm with mounting bracket)
Weight: 22kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

**Performance**
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

**Nominal Fan Performance**

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>2009 (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>2012 (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.49</td>
<td>89%</td>
<td>0.51</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.49</td>
<td>89%</td>
<td>0.58</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.53</td>
<td>87%</td>
<td>0.7</td>
<td>86%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.63</td>
<td>86%</td>
<td>0.9</td>
<td>84%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.75</td>
<td>85%</td>
<td>1.07</td>
<td>83%</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.87</td>
<td>84%</td>
<td>1.34</td>
<td>82%</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>1.03</td>
<td>83%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results
*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

**Acoustic Data**

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dBA @ 3m Hemispherical</th>
<th>dBA @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>HRV1.6 Q Plus Eco</td>
<td>41%</td>
<td>44/s @ 17Pa</td>
<td>33</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>65%</td>
<td>71/s @ 54Pa</td>
<td>44</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>98/s @ 100Pa</td>
<td>54</td>
<td>63</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in small to medium sized dwellings

The enhanced capacity HRV1.6 HE Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE maintains an ultra compact size despite its improved results.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit enhances SAP performance via Appendix Q, and yet remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Highly versatile compact unit
- Extremely low Specific Fan Power; down to 0.62 W/l/s
- Highly efficient heat exchanger; up to 90%
- Airflow up to 81 l/s (290 m³/h) at 100 Pa
- Accepts 125mm ducting no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Lightweight for easy handling
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco Versions:

- Intelligent Summer Bypass & humidity controls
- SUMMERboost™ facility
- Available in left and right handed configurations

Eco HMB Models:

- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Product Codes
HRV1.6 HE Q Plus HMB
Eco auralite® & aura-t™ ready -
TP439HMB/S12 (left hand config) or
TP439HMB/RH (right hand config) - Energy Rating A+

HRV1.6 HE Q Plus B Eco-aura controls ready -
(Filter Door)
TP429BF/LH (left hand config) or
TP429BF/RH (right hand config) - Energy Rating A+

Filters:
XP2010893/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP2010894/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP2011096/099 - ISO Coarse 55% (G3)/ISO ePM1 50% (F7) filters available on request.
XP2011097/099 - ISO Coarse 60% (G4)/ISO ePM1 50% (F7) filters available on request.

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 600mm wide x 505mm high (excluding ports) x 353mm deep (363mm with mounting bracket)
Weight: 22kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online
www.titon.com/acoustics

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2009</td>
<td></td>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.62</td>
<td>90%</td>
<td>0.66</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.63</td>
<td>89%</td>
<td>0.79</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.73</td>
<td>89%</td>
<td>0.96</td>
<td>88%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.87</td>
<td>89%</td>
<td>1.22</td>
<td>88%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>1.02</td>
<td>88%</td>
<td>1.46</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>1.19</td>
<td>88%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>1.46</td>
<td>87%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results
*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Nominal Fan Performance

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inlet</td>
<td>Outlet</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>HRV1.6 HE Q Plus Eco</td>
<td>41%</td>
<td>38l/s @ 17Pa</td>
<td>33</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>65%</td>
<td>60l/s @ 54Pa</td>
<td>44</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>86l/s @ 100Pa</td>
<td>54</td>
<td>63</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
HRV1.75 Q Plus

Ultra energy efficient Heat Recovery Ventilation unit

For use in small to medium sized dwellings

The enhanced capacity HRV1.75 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE maintains an ultra compact size despite its improved results.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit enhances SAP performance via Appendix Q, and yet remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Highly versatile compact unit
- Extremely low Specific Fan Power; down to 0.48 W/l/s
- Highly efficient heat exchanger; up to 89%
- Airflow up to 76 l/s (274 m³/h) at 100 Pa
- Accepts 125mm or 150mm diameter ducting, no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Basic version:
- Summer mode

Eco Versions:
- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility
- Available in left and right handed configurations

Eco HMB Models:
- Compatible with auralite® (TPS18) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TPS19) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Product Codes
HRV1.75 Q Plus - TP404A - Energy Rating A
HRV1.75 Q Plus HMB eco auralite® & aura-t™ ready - TP404HMB/S44 (left hand config) or TP404HMB/RH (right hand config) - Energy Rating A
HRV1.75 Q Plus B Eco-aura controls ready - TP414B/LH (left hand config) or TP414B/RH (right hand config) - Energy Rating A+

Filters (Basic Version):
XP40132/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46122/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).

Filters (Eco Versions):
XP40133/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46133/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP46232/099 - ISO Coarse 60% (G4) filters/ISO ePM1 55% (F7) filters available on request.

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
Weight: 24kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Exhaust terminal configuration Fan speed setting SFP (W/l/s) Heat exchange efficiency (%) SFP (W/l/s) Heat exchange efficiency (%)

| Kitchen + 1 additional wet room | 100% variable | 0.48 | 89% | 0.52 | 89% |
| Kitchen + 2 additional wet rooms | 100% variable | 0.49 | 89% | 0.6 | 89% |
| Kitchen + 3 additional wet rooms | 100% variable | 0.55 | 89% | 0.73 | 88% |
| Kitchen + 4 additional wet rooms | 100% variable | 0.64 | 88% | 0.94 | 87% |
| Kitchen + 5 additional wet rooms | 100% variable | 0.76 | 88% | - | - |
| Kitchen + 6 additional wet rooms | 100% variable | 0.91 | 87% | - | - |
| Kitchen + 7 additional wet rooms | 100% variable | 1.11 | 87% | - | - |

Figures taken from the BRE Test Results
*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Nominal Fan Performance

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>AIRFLOW</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Outlet</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>HRV1.75 Q Plus Eco</td>
<td>39%</td>
<td>30l/s @ 18Pa</td>
<td>26</td>
<td>36</td>
</tr>
<tr>
<td>HRV1.75 Q Plus Eco</td>
<td>60%</td>
<td>47l/s @ 47Pa</td>
<td>31</td>
<td>46</td>
</tr>
<tr>
<td>HRV1.75 Q Plus Eco</td>
<td>100%</td>
<td>78l/s @ 100Pa</td>
<td>40</td>
<td>54</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in medium to large sized dwellings

The enhanced capacity HRV2 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE. The HRV2 Q Plus MVHR unit gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is specifically designed to enhance SAP performance via Appendix Q, yet small enough to be easily incorporated into medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Compact unit
- Extremely low Specific Fan Power; down to 0.56 W/l/s (Eco version)
- Highly efficient heat exchanger; up to 90%
- Airflow up to 82 l/s (294 m³/h) at 100 Pa
- Lightweight for easy handling
- Intelligent controller, quick and easy to commission
- Constant volume fans
- Accepts 150mm diameter ducting, no adaptors required
- Independent fan adjustment
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- Enthalpy Heat Cell option available
- Setback facility to reduce ventilation where local regulations allow
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Volt free switching control
- Quick fix mounting bracket
- On board aura-t™ option
- IP32 rating
- Patented
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option.
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Basic version:
- Summer mode

Eco Versions:
- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility
- Available in left and right handed configurations

Eco HMB Models:
- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Performance

The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

### Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.

**SAP Appendix Q tested.**

Exceeds requirements of Building Regulations Approved Document L (England & Wales).

EU RoHS Directive compliant.


CE Marked.

### Specification
**Dimensions:** 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)

**Weight:** 24kg

**Finish:** White Paint

**Materials:**
- Housing: Zintec sheet steel housing, powder coated white
- Internals: Expanded polypropylene (EPP)
- Heat exchanger: Polystyrene
- Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating

**Standard filters:** Grade ISO Coarse 55% (G3) synthetic filters.

**Guarantee period:** 3 years (UK only)

**Electrical:** 230V ~ 50/60Hz, 3A fuse

**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

**Maintenance:** Service and filter clean/replacement subject to local environment - see product manual.

**Acoustics:** Full acoustic data available online www.titon.com/acoustics

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### Nominal Fan Performance

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>2009 SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>2012 SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>-</td>
<td>-</td>
<td>0.63</td>
<td>90%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.56</td>
<td>90%</td>
<td>0.67</td>
<td>90%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.62</td>
<td>90%</td>
<td>0.76</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.7</td>
<td>89%</td>
<td>0.94</td>
<td>88%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.79</td>
<td>89%</td>
<td>1.14</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.91</td>
<td>88%</td>
<td>1.4</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>1.07</td>
<td>87%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*Figures taken from the BRE Test Results

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

---

### Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV2 Q Plus Eco</td>
<td>33%</td>
<td>27l/s @ 8Pa</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>70%</td>
<td>57l/s @ 56Pa</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>81l/s @ 100Pa</td>
<td>41</td>
</tr>
</tbody>
</table>

*For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in medium to large sized dwellings

The enhanced capacity HRV2.85 Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to give improved performance over older models, in line with new build design requirements. It is independently tested by the BRE.

Combining extremely low power consumption and a highly efficient heat exchanger, the HRV2.85 Q Plus is specifically designed to enhance SAP performance via Appendix Q, yet still small enough to be easily incorporated into medium or large sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Highly compact, making a highly versatile unit
- Lightweight for easy handling
- Extremely low Specific Fan Power; down to 0.54 W/l/s
- Highly efficient heat exchanger; up to 92%
- Airflow up to 93 l/s (334 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Accepts 150mm diameter ducting, no adaptors required
- Independent fan adjustment
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- Setback facility to reduce ventilation where local regulations allow
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented features and design
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
- Available in left and right handed configurations

Basic version:
- Summer Mode

Eco Versions:
- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility

Eco HMB Models:
- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Product Codes
HRV2.85 Q Plus -
TP407A - Energy Rating A
HRV2.85 Q Plus HMB Eco auralite® & aura-t™ ready -
TP407HMB/544 (left hand config) or
TP407HMB/RH (right hand config) - Energy Rating A
HRV2.85 Q Plus B Eco-aura controls ready -
TP417B/LH (left hand config) or
TP417B/RH (right hand config) - Energy Rating A+

Filters (Basic Version):
XP40132/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46122/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
Filters (Eco Versions):
XP40133/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46222/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP46232/099 - ISO Coarse 60% (G4) filters/ISO ePM1 55% (F7) filters available on request.

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
Weight: 24kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

Acoustic Data
<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
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<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRV2.85 Q Plus Eco</td>
<td>31%</td>
<td>29/5 @ 7Pa</td>
<td>22</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>61/4 @ 40Pa</td>
<td>34</td>
<td>42</td>
</tr>
</tbody>
</table>

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Exhaust terminal configuration* Fan speed setting SFP (W/l/s) Heat exchange efficiency (%) SFP (W/l/s) Heat exchange efficiency (%)
Kitchen + 1 additional wet room 100% variable 0.6 92% 0.6 91%
Kitchen + 2 additional wet rooms 100% variable 0.54 91% 0.62 90%
Kitchen + 3 additional wet rooms 100% variable 0.57 90% 0.72 89%
Kitchen + 4 additional wet rooms 100% variable 0.65 89% 0.88 88%
Kitchen + 5 additional wet rooms 100% variable 0.74 88% 1.06 87%
Kitchen + 6 additional wet rooms 100% variable 0.85 88% 1.3 87%
Kitchen + 7 additional wet rooms 100% variable 1 87% - -

Figures taken from the BRE Test Results
*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Nominal Fan Performance

Acoustics: Full acoustic data available online www.titon.com/acoustics

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
Weight: 24kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
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<td>29/5 @ 7Pa</td>
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<td>100%</td>
<td>61/4 @ 40Pa</td>
<td>34</td>
<td>42</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in large dwellings

Suitable for larger dwellings, the HRV3 Q Plus continuously running whole-house ventilation unit with heat recovery is independently tested by the BRE. The HRV3 Q Plus gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is specifically designed to enhance SAP performance via Appendix Q, yet small enough to be easily incorporated into medium sized dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Extremely low Specific Fan Power; down to 0.67 W/l/s
- Constant volume fans
- Highly efficient heat exchanger; up to 90%
- Airflow up to 105 l/s (379 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0-60 minutes; use with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Accepts 150mm diameter ducting, no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Quick fix mounting bracket
- On board aura-t™ option
- IP32 rating
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing
- Available in left and right handed configurations

Basic version:
- Summer Mode

Eco Versions:
- Intelligent Summer Bypass & humidity controls
- SUMMERboost™ facility

Eco HMB Models:
- Compatible with auralite® (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel

Eco B Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- Enthalpy Heat Cell option available
- BMS compatible via RS485
Product Codes
HRV3 Q Plus - TP402A - Energy Rating B
HRV3 Q Plus HMB Eco auralite® & aura-t™ ready - TP402HMB/544 - (left hand config) or TP402HMB/RH - (right hand config) - Energy Rating A
HRV3 Q Plus B Eco-auras ready - TP412B/LH (left hand config) or TP412B/RH (right hand config) - Energy Rating A
TP412BC (Cold Climate) - Energy Rating A

Filters (Basic Version):
XP40132/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46122/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).

Filters (Eco Versions):
XP40133/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46133/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP46222/099 - ISO Coarse 55% (G3)/ISO ePM1 55% (F7) filters available on request.
XP46232/099 - ISO Coarse 60% (G4) filters/ISO ePM1 55% (F7) filters available on request.

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHs Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electric Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
Weight: 24.5kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 5A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

Acoustic Data
<table>
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<tr>
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<th>dB(A) @ 3m Spherical</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV3 Q Plus Eco</td>
<td>33%</td>
<td>36l/s @ 10Pa 25</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>68%</td>
<td>73l/s @ 48Pa 36</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>108l/s @ 100Pa 45</td>
<td>57</td>
</tr>
</tbody>
</table>

Performance
The figures and compliance levels below relate to current SAP requirements.
Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Nominal Fan Performance

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
For use in large dwellings

Suitable for larger dwellings, the HRV3 PH ECOaura continuously running whole-house ventilation unit with heat recovery is independently tested and is Passivhaus certified. The HRV3 PH ECOaura gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is specifically designed to enhance performance, yet small enough to be easily incorporated into medium sized dwellings.

Our HRV3 PH ECOaura has 100% airflow diverting Summer Bypass functionality that offers intelligent humidity options and is fitted with either aurastat® or aura-t™ controllers.

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

Features & Benefits

- Tested and approved by Passive House to meet their high certification standards
- Extremely low Specific electric power; down to 0.40 Wh/m²
- Constant volume fans
- Highly efficient heat exchanger; up to 86%
- Airflow up to 110 l/s (396 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0-60 minutes; use with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Accepts 150mm diameter ducting, no adaptors required
- Intelligent frost protection
- Setback facility to reduce ventilation where local regulations allow
- Lightweight for easy handling
- Volt free switching control
- Quick fix mounting bracket
- IP32 rating
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing toxic home syndrome
- Compatible with Eco-aura controllers; aurastat® and aura-t™ (TP536/EU only)
- Duct Pre-heater control
- Available in left and right handed configurations
- BMS compatible via RS485
Product Codes
*HRV3 PH ECOaura
TP412B PH - Energy Rating A
aura-tm touch screen controller - TP536/EU
aurastat VT controller - TP534

Duct Pre-heater
EKA-NV160-1.5 – Ø160mm 1.5kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor
EKA-NV150-1.5 – Ø150mm 1.5kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

Filters:
XP46232/099 - ISO Coarse 60% (G4) filters/ISO ePM1 55% (F7) filters available on request.

*Controller and Duct Pre-heater need to be purchased with HRV3 PH ECOaura to make it fully Passivhaus compliant.

Standards
Certified Passive House Component (Component-ID 1182vs03)
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
Weight: 24.5kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Polystyrene
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: ISO ePM1 55% (F7) pleated panel on supply, ISO Coarse 60% (G4) synthetic on extract
Guarantee period: 3 years (UK only)

Electrical: 230V ~ 50/60Hz, 5A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

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<td>36l/s @ 10Pa 36</td>
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</tr>
<tr>
<td></td>
<td>100%</td>
<td>108l/s @ 100Pa 45</td>
<td>57</td>
</tr>
</tbody>
</table>

Note: Data for HRV3 with ISO Coarse 60% (G4) Filters
For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in large dwellings

The HRV10 Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to give improved performance over older models, in line with new build design requirements.

Combining extremely low power consumption and a highly efficient heat exchanger specifically designed to enhance SAP performance via Appendix Q and can be incorporated into larger apartments or dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

→ Extremely low Specific Fan Power; down to 0.52 W/l/s
→ Highly efficient heat exchanger; up to 91%
→ Airflow up to 111 l/s (399 m³/h) at 100 Pa
→ Lightweight EPP construction giving high levels of thermal insulation
→ Accepts 150mm diameter ducting
→ Independent fan adjustment
→ Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
→ Setback facility to reduce ventilation where local regulations allow
→ Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
→ Intelligent controller, quick and easy to commission
→ EPP moulded 150mm low resistance insulated port adaptors included as standard
→ EPP version lightweight for easy handling
→ Volt free switching control
→ Pleated ISO Coarse 65% (G4) filters as standard. ISO ePM1 55% (F7) on request (Standard unit only)
→ Available in EPP or Zintec sheet steel casing
→ Quick fix mounting bracket
→ IP32 rating
→ On board aura-t™ option
→ Patented features
→ Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
→ Duct Pre-heater control (requires independent power supply)
→ BMS compatible via RS485

Basic version:
→ Summer Mode

Eco Versions:
→ Intelligent Summer Bypass & humidity controls
→ SUMMERboost® facility

Eco HMB Models:
→ Compatible with auralite® (TP518) status indicator and aura-t™ controller

Eco B Models:
→ Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
→ Duct Pre-heater control (requires independent power supply)
→ BMS compatible via RS485
Residential Ventilation Association recommendations.

Compliance Guide (England & Wales) and the requirements, such as the Domestic Ventilation pleated panel filters.

Rating, Standard filters: Grade ISO Coarse 60% (G4)

Closed cell foamed, Nitrile rubber, class 'O' fire

Exchanger – Polystyrene, Internal Insulation –

Materials:

Expanded polypropylene (EPP), Heat

HRV10M Q Plus -

TP441A - Energy Rating A

HRV10M Q Plus HMB Eco auralite® & aura-t™ ready -

TP440HMB - Energy Rating A

HRV10 Q Plus B Eco-aura controls ready -

TP480B - Energy Rating A+

TP480BC (Cold Climate) - Energy Rating A+

Filters (Basic Version):

XP44022/099 - ISO Coarse 65% (G4) filter set fitted as standard.

Filters (Eco Versions):

XP44023/099 - ISO Coarse 65% (G4) bypass filter set fitted as standard.

XP46223/099 - ISO Coarse 65% (G4)/ISO ePM1 55% (F7) filters available on request.

Installation:

230V ~ 50/60Hz, 3A fuse.

Electrical:

3 years (UK only).

Guarantee period:

HRV10 M Q Plus – 37kg.

Weight:

HRV10 Q Plus – 17.5kg,

HRV10M Q Plus – 37kg.

Finish:

HRV10 Q Plus – Black EPP,

HRV10M Q Plus – White Paint.

Materials:

Expanded polypropylene (EPP), Heat Exchanger – Polystyrene, Internal Insulation –

Closed cell foam, Nitrile rubber, class 'O' fire rating, Standard filters: Grade ISO Coarse 60% (G4) pleated panel filters.


Guarantee period: 3 years (UK only).

Electrical: 230V ~ 50/60Hz, 3A fuse.

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dBA @ 3m Hemispherical</th>
<th>dBA @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV10 Q Plus Eco</td>
<td>41%</td>
<td>44/s @ 22Pa</td>
<td>27</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>69%</td>
<td>75/s @ 51Pa</td>
<td>36</td>
<td>48</td>
</tr>
<tr>
<td>HRV10M Q Plus Eco</td>
<td>100%</td>
<td>108/s @ 100Pa</td>
<td>43</td>
<td>57</td>
</tr>
<tr>
<td>HRV10 Q Plus Eco</td>
<td>41%</td>
<td>44/s @ 22Pa</td>
<td>27</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>69%</td>
<td>75/s @ 51Pa</td>
<td>36</td>
<td>48</td>
</tr>
<tr>
<td>HRV10M Q Plus Eco</td>
<td>100%</td>
<td>108/s @ 100Pa</td>
<td>43</td>
<td>57</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
For use in large dwellings

The HRV10.25 Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to give improved performance over older models, in line with new build design requirements. Combining extremely low power consumption and a highly efficient heat exchanger specifically designed to enhance SAP performance via Appendix Q and can be incorporated into larger apartments or dwellings.

The Eco versions offer a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

**Features & Benefits**

- Extremely low Specific Fan Power; down to 0.39 W/l/s
- Highly efficient heat exchanger; up to 90%
- Airflow up to 144 l/s (518 m³/h) at 100 Pa
- Lightweight EPP construction giving high levels of thermal insulation
- Accepts 150mm diameter ducting
- Independent fan adjustment
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- Setback facility to reduce ventilation where local regulations allow
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Intelligent controller, quick and easy to commission
- EPP moulded 150mm low resistance insulated port adaptors included as standard
- Intelligent controller, quick and easy tocommission
- Available in EPP or Zintec sheet steel casing
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented features
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

**Eco Versions:**

- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility

**Eco HMB Models:**

- Compatible with auralite® (TP518) status indicator and aura-t™ controller

**Eco B Models:**

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- Enthalpy Heat Cell option available
- BMS compatible via RS485
Product Codes
HRV10.25 Q Plus HMB Eco auralite® & aura-t™ ready - TP442HMB - Energy Rating A
HRV10.25 Q Plus B Eco-aura controls ready - TP482B - Energy Rating A
TP482BC (Cold Climate) - Energy Rating A
HRV10.25M Q Plus HMB Eco auralite® & aura-t™ ready - TP443HMB - Energy Rating A
HRV10.25M Q Plus B Eco-aura controls ready - TP483B - Energy Rating A

Filters:
XP44023/099 - ISO Coarse 65% (G4) pleated (F7) filters available on request.
XP46223/099 - ISO Coarse 65% (G4) ISO ePM1 55% (F7) filters available on request.

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.
SAP Appendix Q tested
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
CE Marked.

Specification
Dimensions: HRV10.25 Q Plus - 790mm wide x 663mm high (excluding ports) x 484mm deep
HRV10.25M Q Plus - 800mm wide x 675mm high (excluding ports) x 470mm deep (481mm with mounting bracket)

Weight:
HRV10.25 Q Plus – 18kg, HRV10.25M Q Plus – 37.5kg

Finish:

Materials:
Housing: Expanded polypropylene (EPP), Heat Exchanger – Polystyrene, Internal Insulation – Closed cell foamed, Nitrile rubber, class ‘O’ fire rating.
Standard filters: Grade ISO Coarse 65% (G4) pleated panel filters.

Guarantee period: 3 years (UK only)

Electrical:
230V – 50/60Hz, 5A fuse

Installation:
Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Acoustics:
Full acoustic data available online www.titon.com/acoustics

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Casing Breakout</td>
<td>Heat exchange</td>
</tr>
<tr>
<td>HRV10.25 Q Plus</td>
<td>39%</td>
<td>56/6 @ 12Pa</td>
<td>32</td>
<td>47</td>
</tr>
<tr>
<td>HRV10.25 Q Plus</td>
<td>66%</td>
<td>95/6 @ 44Pa</td>
<td>43</td>
<td>62</td>
</tr>
<tr>
<td>HRV10.25 Q Plus</td>
<td>100%</td>
<td>144/6 @ 100Pa</td>
<td>48</td>
<td>70</td>
</tr>
<tr>
<td>HRV10.25M Q Plus</td>
<td>39%</td>
<td>56/6 @ 12Pa</td>
<td>32</td>
<td>47</td>
</tr>
<tr>
<td>HRV10.25M Q Plus</td>
<td>66%</td>
<td>95/6 @ 44Pa</td>
<td>43</td>
<td>62</td>
</tr>
<tr>
<td>HRV10.25M Q Plus</td>
<td>100%</td>
<td>144/6 @ 100Pa</td>
<td>48</td>
<td>70</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Nominal Fan Performance

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange (%)</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.41</td>
<td>90%</td>
<td>0.43</td>
<td>90%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.39</td>
<td>90%</td>
<td>0.46</td>
<td>88%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.43</td>
<td>88%</td>
<td>0.54</td>
<td>87%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.48</td>
<td>87%</td>
<td>0.65</td>
<td>86%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.55</td>
<td>87%</td>
<td>0.79</td>
<td>85%</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.64</td>
<td>86%</td>
<td>0.96</td>
<td>84%</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>0.75</td>
<td>85%</td>
<td>1.16</td>
<td>83%</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results
*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
HRV20 HE Q Plus

For use in large dwellings

The new HRV20 HE Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to expand Titon’s current HRV range by offering airflow rates of up to 178 l/s (640 m³/h).

Combining extremely low power consumption and a highly efficient heat exchanger (up to 92%) specifically designed to enhance SAP performance via Appendix Q and can be incorporated into larger apartments or dwellings.

Offering a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with aura-t™ (HMB) fitted integral (as standard on HMB models only), aura-t™ (B) fitted integral or standalone, auramode®, aurastat® controllers and auralite® status indicator (B models only).

Features & Benefits

→ Highly versatile compact unit
→ Extremely low Specific Fan Power of 0.48 W/l/s
→ Highly efficient heat exchanger; up to 92%
→ Airflow up to 178 l/s (640 m³/h) at 100 Pa
→ Accepts 200mm diameter ducting
→ Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
→ ISO Coarse 65% (G4) bypass filter set fitted as standard. ISO Coarse 65% (G4)/ISO ePM1 75% (F7) available on request.
→ Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switch to prevent unit from being accidentally left in boost mode
→ Volt free switching control
→ Intelligent controller, quick and easy to commission
→ aura-t™ fitted on board as standard for HMB models and optional for B models
→ Quick fix mounting bracket
→ IP33 rating
→ Patented
→ Independent fan adjustment
→ Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
→ Available in left and right handed configurations

Eco Versions:

→ Intelligent Summer Bypass & humidity controls
→ SUMMERboost® facility

Eco HMB Models:

→ Fitted with aura-t™ controller on board as standard

Eco B Models:

→ Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
→ Duct heater control (requires independent power supply)
→ BMS compatible via RS485
**Product Codes**

HRV20 HE Q Plus HMB Eco aura-t™ ready - (Filter Door)

TP652HMB/64 - (left hand config) or TP652HMB/RH - (right hand config) - Energy Rating A

HRV20 HE Q Plus B Eco-aura controls ready - (Filter Door)

TP653B/LH (left hand config) or TP653B/RH (right hand config) - Energy Rating A+

TP653BC (Cold Climate) - Energy Rating A+

Filters:

- XP2010561 - ISO Coarse 65% (G4) bypass filter set fitted as standard.
- XP2010929 - ISO Coarse 65% (G4)/ISO ePM1 75% (F7) available on request.

**Standards**

Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398

SAP Appendix Q tested

Exceeds requirements of Building Regulations Approved Document L (England & Wales)

EU RoHS Directive compliant.


CE Marked.

**Specification**

**Dimensions:** HRV20 HE Q Plus - 752mm wide x 708mm high (excluding ports) x 533mm deep (549mm with mounting bracket).

**Weight:** 46kg.

**Finish:** White Paint.

**Materials:**

- Housing: Zintec sheet steel housing, powder coated white
- Internals: Expanded polypropylene (EPP)
- Heat exchanger: Polystyrene
- Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating

**Guarantee period:** 3 years (UK only).

**Electrical:** 230V ~ 50/60Hz, 5A fuse.

**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

**Maintenance:** Service and filter clean/replacement subject to local environment - see product manual.

**Acoustics:** Full acoustic data available online www.titon.com/acoustics

**Performance**

The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

**Nominal Fan Performance**

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
<th>SFP (W/l/s)</th>
<th>Heat exchange efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.52</td>
<td>92%</td>
<td>0.52</td>
<td>91%</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.48</td>
<td>91%</td>
<td>0.53</td>
<td>91%</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.48</td>
<td>91%</td>
<td>0.58</td>
<td>90%</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.53</td>
<td>90%</td>
<td>0.68</td>
<td>90%</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.58</td>
<td>90%</td>
<td>0.79</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.66</td>
<td>90%</td>
<td>0.95</td>
<td>89%</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>0.76</td>
<td>89%</td>
<td>1.15</td>
<td>88%</td>
</tr>
</tbody>
</table>

*Figures taken from the BRE Test Results

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

**Acoustic Data**

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Casing Breakout</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV20 HE Q Plus Eco</td>
<td>41%</td>
<td>65l/s @ 18Pa</td>
<td>33</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>65%</td>
<td>116l/s @ 51Pa</td>
<td>46</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td>170l/s @ 100Pa</td>
<td>57</td>
<td>70</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in a wide range of dwellings

The H200 Q Plus continuously running horizontal whole-house ventilation unit with heat recovery is independently tested by the BRE. It is ideal for flats due to its low profile.

Combining low power consumption and a highly efficient heat exchanger, this unit enhances SAP performance via Appendix Q and remains versatile enough in size to be equally functional in large through to small apartments alike.

The H200 Q Plus comes in Eco versions only with a 100% airflow diverting Summer Bypass, recognised and listed in the UK Product Characteristics Database. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMB and B models), auramode® and aurastat® controllers (B models only).

Features & Benefits

- Low profile
- Extremely low SFP; down to 0.55 W/l/s
- Highly efficient heat exchanger; up to 83%
- Airflow up to 83 l/s (300 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0-60 minutes; use with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Accepts either 204mm x 60mm rectangular ducting, 150mm or 160mm diameter ducting, no adaptors required
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- ISO Coarse 65% (G4) filters as standard, ISO ePM1 55% (F7) as an option
- Pleated cardboard frame filters
- IP33 rating
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco Versions:

- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility

Eco HMB Models:

- Compatible with auralite® (TP518) status indicator and aura-t™ controller

Eco B Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Performance

The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>2009</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.58</td>
<td>0.58</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.55</td>
<td>0.66</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.61</td>
<td>0.80</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.72</td>
<td>1.01</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.85</td>
<td>1.25</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.99</td>
<td>1.58</td>
</tr>
<tr>
<td>Kitchen + 7 additional wet rooms</td>
<td>100% variable</td>
<td>1.2</td>
<td>1.8</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Exhaust terminal configurations and fan speeds are chosen based on SAP requirements.

Nominal Fan Performance

Acoustics: Full acoustic data available online www.titon.com/acoustics

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
For use in small to medium sized dwellings

The high capacity HRV1.35 Q Plus continuously running whole-house ventilation unit with heat recovery maintains an ultra compact size despite its improved airflow performance.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The HRV1.35 Q Plus comes in Eco versions only with a 100% airflow diverting Summer Bypass. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMBE and BE models), auramode® and aurastat® controllers (BE models only).

Features & Benefits

- Versatile compact unit
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 66 l/s (237 m³/h) at 100 Pa
- Accepts 100mm or 125mm diameter ducting, no adaptors required
- Intelligent frost protection
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Setback facility to reduce ventilation where local regulations allow
- Intelligent Summer Bypass and humidity controls
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Lightweight for easy handling
- Quick fix mounting bracket
- On board aura-t™ option
- Patented
- IP32 rating
- Independent fan adjustment
- SUMMERboost® facility
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
- Available in left and right handed configurations

Eco HMBE Models:
- Compatible with auralite® status indicator

Eco BE Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485
Product Codes
HRV1.35 Q Plus HMB Eco Enthalpy Eco aura-lite® & aura-t® ready -
TP408HMBE - Energy Rating A
HRV1.35 Q Plus B Eco Enthalpy Eco-aura controls ready -
TP418BE/LH (left hand config) or
TP418BE/RH (right hand config) - Energy Rating A

Filters:
XP40032/099 - ISO Coarse 55% (G3) filters
XP46022/099 - ISO Coarse 60% (G4) filters
XP2011094/099 - ISO Coarse 55% (G3)/ISO ePM1 50% (F7) filters available on request.
XP2011095/099 - ISO Coarse 60% (G4)/ISO ePM1 50% (F7) filters available on request.

Standards
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 600mm wide x 430mm high (excluding ports) x 285mm deep (295mm with mounting bracket)
Weight: 18kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Selective polymer membrane film
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.
Acoustics: Full acoustic data available online www.titon.com/acoustics

Heat Cell Technical Data
(Typical conditions at 140 m³/h)
● Heat change rate 80%
● Degree of moisture change 70%
● Leakage at 100 Pa < 1%
● Temperature stability -25°C up to 65°C

Features & Benefits
● No transfer of gases or pollutants - only heat and water vapour transferred by the membrane
● Long life cycle - permanent transmission parameters
● Minimum leakage
● Optimum flow behaviour, low pressure loss
● Frost- and heat-proof
● High, sensitive and latent transmission rate
● Antimicrobial (Microban® - integrated hygiene protection)
● Can be cleaned using water
● European manufactured heat cell

Nominal Fan Performance

<table>
<thead>
<tr>
<th>Nominal Speeds</th>
<th>%</th>
<th>Watts*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
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<td>3</td>
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<td>5</td>
<td>76</td>
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<td>7</td>
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Volume Flow

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>HRV1.35 Q Plus Eco Enthalpy</td>
<td>22l/s @ 12Pa</td>
<td>28</td>
<td>39</td>
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<tr>
<td></td>
<td>39l/s @ 38Pa</td>
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<td></td>
<td>60l/s @ 100Pa</td>
<td>47</td>
<td>61</td>
</tr>
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</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
Ultra energy efficient Heat Recovery Ventilation unit

For use in small to medium sized dwellings

The high capacity HRV1.6 Q Plus continuously running whole-house ventilation unit with heat recovery maintains an ultra compact size despite its improved airflow performance.

Combining extremely low power consumption and a highly efficient heat exchanger, this unit remains versatile enough in size to be equally as functional in larger apartments as it is in small to medium sized dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The HRV1.6 Q Plus comes in Eco versions only with a 100% airflow diverting Summer Bypass. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™, auramode® and aurastat® controllers.

Features & Benefits

- Versatile compact unit
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 88 l/s (317 m³/h) at 100 Pa
- Accepts 100mm or 125mm diameter ducting, no adaptors required
- Intelligent frost protection
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Setback facility to reduce ventilation where local regulations allow
- Intelligent Summer Bypass and humidity controls
- Volt free switching control
- Intelligent controller, quick and easy to commission
- Lightweight for easy handling
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- SUMMERboost® facility
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
- Available in left and right handed configurations
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485

Heat
Water vapour
Gases and contaminants
Odours
Product Codes
HRV1.6 Q Plus BE Eco Enthalpy Eco-aura controls ready -
(Filter Door)
TP429BE/LH (left hand config) or
TP429BE/RH (right hand config) - Energy Rating A+
Filters:
XP40032/099 - ISO Coarse 55% (G3) filters
fitted as standard (UK only).
XP40022/099 - ISO Coarse 60% (G4) filters
fitted on request. (Europe fitted as standard).
XP2011094/099 - ISO Coarse 55% (G3)/ISO ePM1
50% (F7) filters available on request.
XP2011095/099 - ISO Coarse 60% (G4)/ISO ePM1
50% (F7) filters available on request.

Standards
EU RoHS Directive compliant.
Conforms to requirements of EC council directives
relating to Electromagnetic Compatibility and
Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 600mm wide x 505mm high (excluding
ports) x 353mm deep (363mm with mounting bracket)
Weight: 25kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder coated
white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Selective polymer membrane film
Internal insulation: Closed cell foamed
Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3)
synthetic filters
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory
requirements, such as the Domestic Ventilation
Compliance Guide (England & Wales) and the
Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement
subject to local environment - see product manual.
Acoustics: Full acoustic data available online
www.titon.com/acoustics

Heat Cell
Technical Data
(Typical conditions at 140 m³/h)
- Heat change rate 80%
- Degree of moisture change 70%
- Leakage at 100 Pa < 1%
- Temperature stability - 25°C
  up to 65°C

Features & Benefits
- No transfer of gases or pollutants
- only heat and water vapour
  transferred by the membrane
- Long life cycle - permanent
  transmission parameters
- Minimum leakage
- Optimum flow behaviour, low
  pressure loss
- Frost- and heat-proof
- High, sensitive and latent
  transmission rate
- Antimicrobial (Microban® - integrated
  hygiene protection)
- Can be cleaned using water
- European manufactured heat cell

Nominal Fan Performance

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inlet</td>
<td>Induct Outlet</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>HRV1.6 Q Plus Eco</td>
<td>41%</td>
<td>35l/s @ 17Pa</td>
<td>33</td>
<td>42</td>
</tr>
<tr>
<td>Enthalpy</td>
<td></td>
<td></td>
<td>60l/s @ 54Pa</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>65%</td>
<td></td>
<td>60l/s @ 54Pa</td>
<td>54</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
HRV2 Q Plus - Enthalpy Heat Recovery Ventilation unit

For use in medium to large sized dwellings

The HRV2 Q Plus MVHR unit gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is small enough to be easily incorporated into medium sized dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The Eco versions offer a 100% airflow diverting Summer Bypass. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMBE and BE models), auramode® and aurastat® controllers (BE models only).

Features & Benefits

- Constant volume fans
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 89 l/s (318 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Accepts 125mm or 150mm diameter ducting, no adaptors required
- Independent fan adjustment
- Intelligent automated control of summer bypass, frost protection and humidity functions
- Setback facility to reduce ventilation where local regulations allow
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Volt free switching control
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option.
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
- Available in left and right handed configurations

Eco HMBE Models:
- Compatible with auralite® status indicator

Eco BE Models:
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485

Heat
Water vapour
Gases and contaminants
Odours
Product Codes
HRV2 Q Plus HMB Eco Enthalpy
australite® & aura-t™ ready -
TP401HMBC - Energy Rating A
HRV2 Q Plus B Eco Enthalpy
Eco-aura controls ready -
TP411BE/LH (left hand config) or
TP411BE/RH (right hand config) - Energy Rating A+
Filters:
Filters (Eco Versions):
XP40133/099 - ISO Coarse 55% (G3) filters
fitted as standard (UK only).
XP46133/099 - ISO Coarse 60% (G4) filters
fitted on request (Europe fitted as standard).
XP46222/099 - ISO Coarse 55% (G3)/ISO ePM1
55% (F7) filters available on request.
XP46232/099 - ISO Coarse 60% (G4) filters/ISO
ePM1 55% (F7) filters available on request.

Standards
EU RoHS Directive compliant.
Conforms to requirements of EC council directives
relating to Electromagnetic Compatibility and
Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)
CE Marked.

Specification
Dimensions: 715mm wide x 490mm high (excluding
ports) x 415mm deep (426mm with mounting bracket)
Weight: 27.5kg
Finish: White Paint
Materials:
Housing: Zintec sheet steel housing, powder
coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Selective polymer membrane film
Internal insulation: Closed cell foamed
Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3)
synthetic filters.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: Install in accordance with regulatory
requirements, such as the Domestic Ventilation
Compliance Guide (England & Wales) and the
Residential Ventilation Association recommendations.
Maintenance: Service and filter clean/replacement
subject to local environment - see product manual.
Acoustics: Full acoustic data available online
www.titon.com/acoustics

Heat Cell
Technical Data
(Typical conditions at 140 m³/h)
- Heat change rate 80%
- Degree of moisture change 70%
- Leakage at 100 Pa < 1%
- Temperature stability - 25°C
  up to 65°C

Features & Benefits
- No transfer of gases or pollutants
  - only heat and water vapour
  transferred by the membrane
- Long life cycle - permanent
  transmission parameters
- Minimum leakage
- Optimum flow behaviour, low
  pressure loss
- Frost- and heat-proof
- High, sensitive and latent
  transmission rate
- Antimicrobial (Microban® - integrated
  hygiene protection)
- Can be cleaned using water
- European manufactured heat cell

Acoustic Data
<table>
<thead>
<tr>
<th>Product</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV2 Q Plus Eco Enthalphy</td>
<td>27l/s @ 8Pa</td>
<td>20</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>57l/s @ 56Pa</td>
<td>35</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>81l/s @ 100Pa</td>
<td>41</td>
<td>56</td>
</tr>
</tbody>
</table>
For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in large dwellings

Suitable for larger dwellings, the HRV3 Q Plus continuously running whole-house ventilation unit with heat recovery gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is small enough to be easily incorporated into medium sized dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The Eco versions offer a 100% airflow diverting Summer Bypass. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™, auramode® and aurastat® controllers.

Features & Benefits

- Constant volume fans
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 118 l/s (423 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0-60 minutes; use with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Accepts 125mm or 150mm diameter ducting, no adaptors required
- Intelligent automated control of summer bypass, frost protection and humidity functions
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing
- Available in left and right handed configurations

Eco BE Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct Pre-heater control (requires independent power supply)
- Available in left and right handed configurations
- BMS compatible via RS485
**Product Codes**
HRV3 Q Plus B Eco Enthalpy
Eco-aura controls ready -
TP412BE/LH (left hand config) or
TP412BE/RH (right hand config) - Energy Rating A

**Filters:**
XP40133/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).
XP46133/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).
XP46222/099 - ISO Coarse 55% (G3)/ISO ePM1 55% (F7) filters available on request.
XP46232/099 - ISO Coarse 60% (G4) filters/ISO ePM1 55% (F7) filters available on request.

**Standards**
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
CE Marked.

**Specification**
**Dimensions:** 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)
**Weight:** 28kg
**Finish:** White Paint

**Materials:**
Housing: Zintec sheet steel housing, powder coated white
Internals: Expanded polypropylene (EPP)
Heat exchanger: Selective polymer membrane film
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating
Standard filters: Grade ISO Coarse 55% (G3) synthetic filters.

**Guarantee period:** 3 years (UK only)

**Electrical:** 230V ~ 50/60Hz, 5A fuse

**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

**Maintenance:** Service and filter clean/replacement subject to local environment - see product manual.

**Acoustics:** Full acoustic data available online www.titon.com/acoustics

**Heat Cell**
**Technical Data (Typical conditions at 140 m³/h)**
- Heat change rate 80%
- Degree of moisture change 70%
- Leakage at 100 Pa < 1%
- Temperature stability - 25°C up to 65°C

**Features & Benefits**
- No transfer of gases or pollutants - only heat and water vapour transferred by the membrane
- Long life cycle - permanent transmission parameters
- Minimum leakage
- Optimum flow behaviour, low pressure loss
- Frost- and heat-proof
- High, sensitive and latent transmission rate
- Antimicrobial (Microban® - integrated hygiene protection)
- Can be cleaned using water
- European manufactured heat cell

**Nominal Fan Performance**

<table>
<thead>
<tr>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
</tr>
<tr>
<td>HRV3 Q Plus Eco Enthalpy</td>
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</tr>
<tr>
<td>36l/s @ 10Pa</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td>73l/s @ 48Pa</td>
<td>36</td>
<td>49</td>
</tr>
<tr>
<td>108l/s @ 100Pa</td>
<td>45</td>
<td>57</td>
</tr>
</tbody>
</table>

*For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.*

**Acoustic Data**

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**Sales and Technical Support +44 (0) 1206 713801 www.titon.com**
Ultra energy efficient Heat Recovery Ventilation unit

HRV10.25 Q Plus - Enthalpy

For use in large dwellings

The HRV10.25 Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to give improved performance over older models, in line with new build design requirements.

Combining extremely low power consumption and a highly efficient heat exchanger it can be incorporated into larger apartments or dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The Eco versions offer a 100% airflow diverting Summer Bypass. It also includes intelligent humidity options and can be fitted with auralite® status indicator, aura-t™, auramode® and aurastat® controllers.

Features & Benefits

- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 161 l/s (581 m³/h) at 100 Pa
- Lightweight EPP construction giving high levels of thermal insulation
- Accepts 150mm or 125mm diameter ducting
- Independent fan adjustment
- Intelligent automated control of summer bypass, frost protection and humidity functions
- Setback facility to reduce ventilation where local regulations allow
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Intelligent controller, quick and easy to commission
- EPP moulded 150-125mm low resistance insulated port adaptors included as standard
- EPP Lightweight for easy handling
- Volt free switching control
- Pleated ISO Coarse 65% (G4) filters as standard
- Quick fix mounting bracket
- IP32 rating
- Patented features
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco BE Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct Pre-heater control (requires independent power supply)
- BMS compatible via RS485

Heat
Water vapour
Gases and contaminants
Odours
Product Codes
HRV10.25 Q Plus B Eco Enthalpy
Eco-aura controls ready -
TP482BE - Energy Rating A

Filters:
XP44023/099 - ISO Coarse 65% (G4) bypass filter
set fitted as standard.
XP46223/099 - ISO Coarse 65% (G4)/ISO ePM1
55% (F7) filters available on request.

Standards
EU RoHS Directive compliant.

Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)

Specification
Dimensions: HRV10.25 Q Plus - 790mm wide
x 663mm high (excluding ports) x 470mm deep
(481mm with mounting bracket).

Weight: HRV10.25 Q Plus – 21.5kg,

Finish: HRV10.25 Q Plus – Black EPP.

Materials:
Expanded polypropylene (EPP), Heat Exchanger
– Selective polymer membrane film. Internal
Insulation – Closed cell foamed, Nitrile rubber, class
‘O’ fire rating, Standard filters: Grade ISO Coarse
60% (G4) pleated panel filters. NB:

Guarantee period: 3 years (UK only)

Electrical: 230V ~ 50/60Hz, 5A fuse

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Acoustics: Full acoustic data available online
www.titon.com/acoustics

Heat Cell
Technical Data
(Typical conditions at 140 m³/h)

● Heat change rate 80%
● Degree of moisture change 70%
● Leakage at 100 Pa < 1%
● Temperature stability - 25°C up to 65°C

Features & Benefits

● No transfer of gases or pollutants - only heat and water vapour transferred by the membrane
● Long life cycle - permanent transmission parameters
● Minimum leakage
● Optimum flow behaviour, low pressure loss
● Frost- and heat-proof
● High, sensitive and latent transmission rate
● Antimicrobial (Microban® - integrated hygiene protection)
● Can be cleaned using water
● European manufactured heat cell

Nominal Fan Performance

<table>
<thead>
<tr>
<th>Nominal Speeds</th>
<th>% Watts*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
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<tr>
<td>2</td>
<td>22</td>
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<td>6</td>
<td>65</td>
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<tr>
<td>7</td>
<td>82</td>
</tr>
</tbody>
</table>

Boost speeds 100% variable

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRV10.25 Q Plus Eco Enthalpy</td>
<td>56l/s @ 12Pa</td>
<td>32</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>95l/s @ 44Pa</td>
<td>43</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>144l/s @ 100Pa</td>
<td>48</td>
<td>70</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in large dwellings

The HRV20 Q Plus continuously running whole-house ventilation unit with heat recovery has been specifically designed to give improved performance over older models, in line with new build design requirements. Combining extremely low power consumption and a highly efficient heat exchanger it can be incorporated into larger apartments or dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The Eco versions offer a 100% airflow diverting Summer Bypass. It also includes intelligent humidity options and can be fitted with auralite® status indicator, aura-t™, auramode® and aurastat® controllers.

Features & Benefits

- Versatile compact unit
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 183 l/s (657 m³/h) at 100 Pa
- Accepts 200mm diameter ducting
- Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing
- ISO Coarse 65% (G4) bypass filter set fitted as standard. ISO Coarse 65% (G4)/ISO ePM1 75% (F7) available on request.
- Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switch to prevent unit from being accidentally left in boost mode
- Volt free switching control
- Intelligent controller, quick and easy to commission
- aura-t™ fitted on board as standard for HMB models and optional for B models
- Quick fix mounting bracket
- Patented
- IP33 rating
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome
- Available in left and right handed configurations
- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility
- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® (TP519) status indicator
- Duct heater control (requires independent power supply)
- BMS compatible via RS485

Ultra energy efficient Heat Recovery Ventilation unit

HRV20 Q Plus - Enthalpy
Product Codes
HRV20 Q Plus B Eco Enthalpy
Eco-aura controls ready -
TP653BE - Energy Rating A

Filters:
XP4423/099 - ISO Coarse 65% (G4) bypass filter set fitted as standard,
XP4622/099 - ISO Coarse 65% (G4)/ISO ePM1 55% (F7) filters available on request.

Standards
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
2006/95/EC (LVD), 2004/108/EC (EMC)

Specification
Dimensions: 752mm wide x 708mm high (excluding ports) x 533mm deep (549mm with mounting bracket).
Weight: 51kg.
Finish: White Paint.
Materials:
Housing: Zintec sheet steel housing, powder coated white.
Internals: Expanded polypropylene (EPP).
Heat exchanger: Polystyrene.
Internal insulation: Closed cell foamed Nitrile rubber, class ‘O’ fire rating.
Guarantee period: 3 years (UK only)
Electrical: 230V ~ 50/60Hz, 5A fuse
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Acoustics: Full acoustic data available online www.titon.com/acoustics

Heat Cell
Technical Data
(Typical conditions at 140 m³/h)
- Heat change rate 80%
- Degree of moisture change 70%
- Leakage at 100 Pa < 1%
- Temperature stability - 25°C up to 65°C

No transfer of gases or pollutants - only heat and water vapour transferred by the membrane
- Long life cycle - permanent transmission parameters
- Minimum leakage
- Optimum flow behaviour, low pressure loss
- Frost- and heat-proof
- High, sensitive and latent transmission rate
- Antimicrobial (Microban® - integrated hygiene protection)
- Can be cleaned using water
- European manufactured heat cell

Drawings & Dimensions

Nominal Fan Performance

<table>
<thead>
<tr>
<th>Nominal Speeds</th>
<th>% of Max flow</th>
<th>Airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Pressure Pa</td>
<td></td>
<td>Induct Inlet</td>
<td>Induct Outlet</td>
<td>Casing Breakout</td>
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<tr>
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<td>100</td>
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<tr>
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<tr>
<td>800</td>
<td>800</td>
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</tr>
</tbody>
</table>

*% of FID (0 Pa).
All units offer 100% variable speed control.
Installation note: We recommend installing suitable sound attenuation with this product.

Acoustic Data

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
For use in residential dwellings

The SR700 from Titon is a decentralised ventilation unit with heat recovery providing continuous airflow to your home. It extracts stale, moist and contaminated air and replaces it with warmed fresh air from outside, improving indoor air quality and keeping heating costs down.

The system is easily installed and maintained, ideal for removing internal condensation and eliminating mould growth within the home. Unlike regular extractor fans that waste 100% of heat that passes through them, the SR700 system will recover up to *87% of wasted heat and create a comfortable living environment. It is recommended that the system is designed in pairs to allow for the system to work to its full capability.

Features & Benefits

- Easy to maintain
- Low noise and vibration levels due to expanded polypropylene housing
- Low profile wall mounted fascia
- No additional ductwork required
- ‘Sleep mode’ function. By putting the unit to sleep, fans can be configured to either stop (default) or slow to humidity protection level for a period of time (default 1 hour) after which they will return to the previous setting
- ‘Intensive speed’ (Manual) to quickly remove any odours that are present.
- ‘Intensive speed’ (Automatic) to quickly remove excessive amounts of poor air, moisture and dangerous levels of Carbon Dioxide from within the home. (Sensors required).
- ‘Cross ventilation’ for a constant flow of fresh air through the house (No heat recovery)
- Wall thickness: Min. 305mm - Max. 700mm+
- Achieves 20Pa back pressure as per BS EN 13141-8:2014
- SR700 controller can connect up to 6 fans

*A tested in house to BS EN 13141-8:2014

Aesthetically pleasing design, offering efficient airflow and heat recovery during the winter and fresh air during the summer.
Product Codes
TP600 - SR700
TP590 - SRC1 (Control unit)
XP2010838 - Replacement PM Coarse 35% (G2) filter
XP2010320 - Replacement insect filter
TP610 - Relative humidity (RH) sensor (surface mount)
TP614 - Relative humidity (RH) sensor (flush mount)
TP611 - Carbon dioxide (CO2) sensor (surface mount)
TP615 - Carbon dioxide (CO2) sensor (flush mount)
TP612 - Combined relative humidity(RH) and Carbon dioxide (CO2) sensor (surface mount)
TP616 - Combined relative humidity(RH) and Carbon dioxide (CO2) sensor (flush mount)
TP613 - Air quality sensor (surface mount)
TP617 - Volatile organic compound (VOC)/Air quality sensor (flush mount)

Standards
BS EN 13141-8:2014 (Ventilation for buildings)
EN 55014-2:2015 category IV
EN 61000-3-2:2014
EN 61000-3-3:2013 (Electromagnetic compatibility [EMC])
BS EN ISO 717-1:2013
BS EN ISO 10140-2:2010
BS EN ISO 3741:2010 (Acoustics)
BS EN 62233 (Electrical Safety)
CE Marked

Specification
Dimensions: 711 long x Ø180 inside wall & Ø220mm x 35mm internal fascia
Weight: SR700 - 3Kg, SRC1 controller - 94g
Materials:
Tube: Expanded polypropylene (EPP)
Components: White ABS plastic
Heat exchanger: Ceramic
Filters: Synthetic
Internal insulation: Closed cell foamed nitrile
Fascia plate: White Perspex
Guarantee period: 2 years
Electrical: 230V ~ 50/60Hz, 3A fuse
Installation: The Titon SRHRV Fan unit is designed to be mounted through a wall with a thickness between 305mm & 700mm.
Maintenance: Easy to maintain. Routine service and filter clean/ replacement are all that are normally required to keep the SRHRV System working efficiently. Subject to local environment - see product manual.

Performance and Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Fan Speed Setting</th>
<th>Airflow (m³/h)</th>
<th>dB(A) Max @ 3m (Hemispherical)</th>
<th>SFP (W/l/s) @0 pa</th>
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<tbody>
<tr>
<td>SR700</td>
<td>Sleep Mode</td>
<td>6.5 or off</td>
<td>8</td>
<td>0.62</td>
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<td></td>
<td>Off</td>
<td></td>
<td></td>
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<td></td>
<td>Humidity protection</td>
<td>6.5</td>
<td>8</td>
<td>0.62</td>
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<tr>
<td></td>
<td>Reduced</td>
<td>20</td>
<td>19</td>
<td>0.27</td>
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<tr>
<td></td>
<td>Nominal</td>
<td>40</td>
<td>32</td>
<td>0.22</td>
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<tr>
<td></td>
<td>Intensive</td>
<td>60</td>
<td>39</td>
<td>0.24</td>
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<table>
<thead>
<tr>
<th>Status</th>
<th>Dn,ew (dB) (cc)</th>
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<tbody>
<tr>
<td>Unit Open</td>
<td>34 dB</td>
</tr>
<tr>
<td>Unit Closed</td>
<td>51 dB</td>
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</table>

SR1 Controller
A system consists of a central control unit which manages between 1 and 3 off pairs of through the wall 12V (dc) bidirectional fan units which are typically fitted in pairs so that they can provide cross flow ventilation within the home.

A controlled ventilation system such as the SR700 from Titon meets the criteria for low energy housing and is ideal for installing during refurbishment of a home.

Sensors
Flush mount
Surface mount

<table>
<thead>
<tr>
<th>Sensor Description</th>
<th>Flush Mount</th>
<th>Surface mount</th>
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<tbody>
<tr>
<td>Relative humidity (RH) Sensor</td>
<td>TP614</td>
<td>TP610</td>
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<tr>
<td>Carbon dioxide (CO2) Sensor</td>
<td>TP615</td>
<td>TP611</td>
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<tr>
<td>Combined relative humidity(RH) and Carbon Dioxide (CO2) Sensor</td>
<td>TP616</td>
<td>TP612</td>
</tr>
<tr>
<td>Volatile organic compound (VOC)/Air Quality Sensor</td>
<td>TP617</td>
<td>TP613</td>
</tr>
</tbody>
</table>
Offering extra protection against external NO₂ pollutants

The Titon 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.

In addition to outstanding NO₂ reductions, the Titon Trimbox active carbon filters also absorb sulphur dioxide, hydrogen sulphide, hydrogen chloride, ammonia odours, volatile organic compounds and solvents.

Nitrogen dioxide filtration and unit pressure drop

(Based on nitrogen dioxide pre filter concentrations of ≈ 200μg m⁻³)

<table>
<thead>
<tr>
<th>Airflow rate (l/S)</th>
<th>Filter pressure drop (Pa)</th>
<th>Concentration reduction (%)</th>
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</thead>
<tbody>
<tr>
<td>29</td>
<td>31</td>
<td>97.6</td>
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<tr>
<td>80.3</td>
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<td>45.3</td>
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<td>98.1</td>
</tr>
<tr>
<td>80.6</td>
<td>106</td>
<td>97.5</td>
</tr>
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</table>

Acoustic Data

Independently tested at SRL, report reference C/23276/TO5 to BS EN ISO 7235:2009

<table>
<thead>
<tr>
<th>Description</th>
<th>Octave Band (Hz)</th>
<th>Static Insertion Loss, dB</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>63</td>
<td>125</td>
</tr>
<tr>
<td>Unit One (3 filters)</td>
<td>6.5</td>
<td>7.6</td>
</tr>
<tr>
<td>Unit Two (4 filters)</td>
<td>6.1</td>
<td>6.8</td>
</tr>
</tbody>
</table>

Features & Benefits

→ 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 ISO ePM1 55% (F7) filter can be installed to further improve indoor air quality
→ Independently tested by BRE
→ Small 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
→ 98% NO₂ reduction at pre filter concentrations of ≈ 200μg m⁻³
→ Effective silencer
→ Third party tested for both NO₂ and Acoustic reductions
→ ISO Coarse 60% (G4) filter reduces 100% of PM₁₀/35% of PM₂.₅ particles
→ ISO ePM1 55% (F7) filter reduces up to 95% of PM₂.₅ particles

Behind unit duct mounting kit available
Sales and Technical Support +44 (0) 1206 713801  www.titon.com

Product Codes
Unit One:
TP550 220 x 90, TP552 Ø160, TP554 Ø150
Unit Two:
TP551 220 x 90, TP553 Ø160, TP555 Ø150

Filters:
XP2010121 - ISO ePM1 55% (F7) pre filter (ISO Coarse 60% (G4) standard in units)

Removable insulation jacket:
XP9910248 - 220x90mm ports
XP9910305 - 150 or 160mm ports

TP558 - Behind unit duct mounting kit

Standards
Third party tested for both NO₂ and acoustic reductions based around the standards currently in place for health as specified by the World Health Organisation and the European Union.

Testing references:
COSHH - Workplace exposure limits
COMEAP - Government guidance regarding health of air pollution
WHO - World Health Organisation

Specification
Dimensions: 350mm wide x 690mm high (excluding ports) x 205mm deep

Port Dimension: 220mm x 90mm, Ø150mm, Ø160mm

Weight:
Unit One (3 Filters) - 17 Kg
Unit Two (4 Filters) - 20 Kg
Insulation Jacket - 2.8 Kg

Finish: White Paint

Materials:
Housing: Zintec sheet steel housing, powder coated white.
Internals: Zintec sheet steel.

Pre-Filter: Grade ISO Coarse 60% (G4) synthetic filters as standard, ISO ePM1 55% (F7) optional.

Active Carbon Filter: Honeycomb matrix constructed filter filled with granular active carbon.

Internal Insulation: Closed cell foamed nitrile rubber, class 'O' fire rating.

Duct Ports: Plastic.

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

These units can be installed either vertically or horizontally.

Maintenance: Service and filter cleaning/ replacement subject to local environment – see product manual.

Accessories: Replacement pre-filters and active carbon filters.

Resistance - Trimbox NO₂ Filter®

ISO Coarse 60% (G4) Prefilter

ISO ePM1 55% (F7) Prefilter

All data is third party tested at BRE and Sound Research Laboratories (SRL) Ltd.
Offering extra protection against external pollutants

Titon’s new Trimbox Filter - Lined (insulated) and Unlined Units reduces outdoor air pollutants as part of your building ventilation system.

With pollution an ever increasing problem, the Trimbox Filter® allows for extra protection within the home. By adding a Trimbox Filter® to the ventilation system, it allows increased protection from external contaminants. Ideal for new build or refurbishment, the Trimbox Filter® creates a safer environment for any dwelling.

Features & Benefits

- Low pressure drop
- Low cost
- Both ISO Coarse 60% (G4) and ISO ePM1 55% (F7) pleated filter options
- Compact design
- Compatible with Titon’s range of MVHR units
- Fully lined version reduces the risk of duct bound noise and condensation
- The unit can be installed in both intake air and supply ducting
- ISO Coarse 60% (G4) filter reduces 100% of PM10/35% of PM2.5 particles
- ISO ePM1 55% (F7) filter reduces up to 95% of PM2.5 particles

Lined - Unit (insulated)

Unlined - Unit ( uninsulated)
**Product Codes**

**Lined Version**
- TP560 - 204x60
- TP561 - 220x90
- TP562 - Ø125
- TP563 - Ø150
- TP564 - Ø160

**Unlined Version**
- TP565 - 204 x 60
- TP566 - 220 x 90
- TP567 - Ø125
- TP568 - Ø150
- TP569 - Ø160

Replacement filters:
- XP2010021 - ISO Coarse 60% (G4) Filter
- XP2010121 - ISO ePM1 55% (F7) Filter

**Standards**
Conforms to the European standard for air filters (ISO16890 and EN779:2012).

**Specification**

**Lined Version**
- Dimensions: 355mm wide x 203mm high (excluding ports) x 206mm deep.

**Unlined Version**
- Dimensions: 338mm wide x 208mm high (excluding ports) x 200mm deep.

**Lined & Unlined Versions**
- Port Dimension: 204mm x 60mm, 220mm x 90mm, Ø125mm, Ø150mm, Ø160mm.
- Weight: 4 Kg.
- **Materials:** Housing: Zintec sheet steel housing, powder coated white.
- **Filters:** Grade ISO Coarse 60% (G4) synthetic filters as standard/ISO ePM1 55% (F7) wet-laid glass fibre paper.
- **Internal Insulation:** Closed cell foamed nitrile rubber, class ‘O’ fire rating.
- **Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
- These units can be installed both vertically and horizontally.
- **Maintenance:** Service and filter cleaning/replacement subject to local environment – see Product Manual.

**Resistance - Trimbox Filter®**

**ISO Coarse 60% (G4) filter**

**ISO ePM1 55% (F7) filter**
For use with Titon HRV units

HRV Condensate Drain Covers are designed to conceal the service pipe attached to the underside of Titon HRV units to improve overall appearance.

The covers match the construction, quality and finish of the HRV units and can be easily installed and removed if required.

The cover has a depth of 74mm and the drainage pipe must be installed within this depth for the cover to be fitted. The drainage trap cannot be installed within this cover void, therefore it must be located in a suitable alternative position.
HRV Duct Covers

For use with Titon HRV units

HRV Duct Covers are designed to conceal the ducting/silencers from the ports at the top of the unit to the ceiling of the property. The ducting cover also helps reduce ducting breakout noise levels into the room. This both improves the overall appearance of the installation and the noise levels.

The covers match the high quality construction and finish of the HRV units and can be easily installed. Access to the control box and ducting can be achieved easily by the removal of the front panel of the ducting covers.

The covers have an adjustable height of 300mm to 400mm so that variations in height of the unit to the ceiling can be accommodated. The covers are suitable for use with rigid or flexible ducting options, and also Titon’s semi-rigid duct attenuators.

There are two types of design of covers, one that is flush with the profile of the units leaving a small area at the ceiling for the ducting to pass through and the other opens up at the ceiling so that round to rectangular elbows can be used.

**Product Codes**

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<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Part Number</th>
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<tbody>
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<td>TP577</td>
</tr>
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<td>HRV1.6</td>
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<td>TP588</td>
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<td>HRV1.75, 2, 2.85, 3</td>
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<td>TP578</td>
</tr>
<tr>
<td>HRV10M, 10.25M</td>
<td>TP587</td>
<td>TP579</td>
</tr>
<tr>
<td>HRV20 HE</td>
<td>TP703</td>
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<table>
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<tr>
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<th>Weight (kg)</th>
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<tbody>
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<tr>
<td>TP579</td>
<td>539</td>
<td>795</td>
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</table>
HRV First Fix Solutions

For use with Titon HRV units

HRV First Fix Solutions are designed to make installation of the ducting from the ceiling void to the unit easier and give a high quality finish. This will reduce the installation time and complete the overall appearance of the installation.

The First Fix Solutions match the construction, quality and finish of the HRV units and can be easily installed into the property. The first fix solutions are designed to be used in conjunction with Titon’s 90° elbows with either the Ø150 round to round ports or the Ø150 round to rectangular 220x90 ports.

There are two first fix solutions (small & large) which can be used with Titon’s HRV 1.6 – 3 units. The small first fix solution is designed to have the same face area as the top of the unit so that the ducting from the unit travels directly to the ports in the first fix. This solution requires the use of Ø150 round to round elbows in the ceiling void due to the closeness of the ports.

The large first fix solution is the same width as the unit, but greater in depth which allows the use of Ø150 round to rectangular 220x90 elbows and therefore can be fitted in a lower ceiling void. The 90° elbows are not sold as part of the kit and should be purchased from Titon separately.

Product Codes

Small First Fix Solution (Ø150 to Ø150)

TP575 - HRV1.75, 2, 2.85 and 3 Q Plus
TP576 - HRV 1.6 Q Plus

Large First Fix Solution (Ø150 to 220x90)

TP591 - HRV1.75, 2, 2.85 and 3 Q Plus
TP592 - HRV 1.6 Q Plus

Dimensions in mm
For use with Titon HRV units

HRV Anti-Vibration (AV) units have been specifically designed to isolate the unit from the wall to further reduce any low levels of vibration induced noise from being transmitted to the mounting structure.

The AV mounting brackets match the construction, quality and finish of the HRV units in addition to the standard fixings supplied without obstructing any subsequently attached ducting.

The use of 4 rubber AV bobbins per mounting kit have been specifically selected to give the best performance whilst the bracket design keeps the unit close to the mounting surface. This means the AV mounting kits can be retrofitted to existing unit installations using the existing fixing points.

**Please note:** AV brackets cannot be retro fitted on units with the double flap hinged wiring cover.

---

### Product Codes

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
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<tbody>
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<td>HRV1.25, 1.35</td>
<td>TP570</td>
</tr>
<tr>
<td>HRV1.6</td>
<td>TP598</td>
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<td>HRV1.75, 2, 2.85, 3</td>
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<tr>
<td>HRV10, 10.25</td>
<td>TP572</td>
</tr>
<tr>
<td>HRV10M, 10.25M</td>
<td>TP573</td>
</tr>
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</table>
Duct Pre-heater
HRV Accessories

For use with Titon HRV units

Titon’s Duct Pre-Heaters are designed to heat clean air in conjunction with Titon’s HRV cold climate ventilation units.

Duct Pre-Heaters uses include tempering fresh air in ventilation systems, supplying heated air to rooms and boosting supply air temperature in heat recovery units - including Titon’s Passivhaus approved MVHR unit.

Casings are made from aluzinc coated steel, which is ideal for high temperature. Heating elements tubing is made from stainless steel AISI 304.

All Duct Pre-Heaters are installed with 2 protection thermostats, screw terminals for easy connection and rubber seals to fit to ducting.

Features & Benefits

→ Built in temperature control
→ Aluzinc casing
→ Stainless steel heating elements
→ Rolled rubber seals for duct connection
→ Two stage overheat protection
→ Built in temperature control
→ Manual reset button when temperature reaches 100°C
→ Compatible with Titon’s cold climate HRV units
→ IP44 Rating
→ To be used with metal ducting only

All Duct Pre-Heaters have two-stage overheat protection:
1. The first stage switches on when the temperature reaches 50°C (resets automatically).
2. The second stage switches on when the temperature reaches 100°C (is reset manually with push button on the casing).

Heaters can be installed vertically or horizontally. Maximum output air temperature 50°C.

Designed for installation in metal ducting. There must be a minimum clearance of 50mm to any combustible material.
### Product Codes

**EKA-NV125-0.9** – Ø125mm 0.9kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

**EKA-NV125-1.5** – Ø125mm 1.5kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

**EKA-NV150-1.5** – Ø160mm 1.5kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

**EKA-NV160-1.2** – Ø160mm 1.2kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

**EKA-NV160-1.5** – Ø160mm 1.5kW electric Duct Pre-heater with temperature control, including remote duct temperature sensor

### Drawing & Dimensions

![Dimensions in mm](image)

### Performance Details

![Graph](image)

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Diameter</th>
<th>Min. Airflow (m³/h)</th>
<th>Min. Airflow (l/s)</th>
<th>Voltage (50 Hz)</th>
<th>Power (kW)</th>
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<tbody>
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<td>EKA-NV125-0.9</td>
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<td>1-230</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Specification

**Dimensions:** 370mm length, diameter plus 32mm height.

**Material:** Aluzinc casing

**Guarantee period:** 2 years

**Electrical:** 230V ~ 50/60Hz

**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations. Please refer to our cold temperature MVHR product manual for further guidance on installation.

---

**Sales and Technical Support** +44 (0) 1206 713801 www.titon.com
Continuous Mechanical Extract

System 3

Products in this section assist in offering compliance with Building Regulations (England & Wales) System 3

Where can it be used?
System 3 is used mainly in new build dwellings due to the need to incorporate ductwork within the building fabric. System 3 is particularly suited to dwellings with single facades.

How does it work?
The System uses background ventilators, usually trickle ventilators fitted in windows and one centrally located continuously running mechanical extract fan with ducts running to the moisture producing areas or “wet rooms” such as kitchens and bathrooms.

A boost facility (where applicable) provides rapid extraction when necessary to remove higher levels of pollutants. As an alternative, continuously running localised fans may be used in place of a centrally located continuously running mechanical extract fan ducted to extract areas.
Continuous Mechanical Extract

CME2 Q Plus 58
CME3 Q Plus 60
CME Access Panel - Non Fire Rated 62
CME Access Panel - Fire Rated 63
Solitude 64
Solace 66

Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
For use in dwellings with six wet rooms or fewer

The CME2 Q Plus is ideal for continuous extract of stale, damp and polluted air to the outside environment.

The combination of aesthetic smooth lines, unique tilted impeller and single level ports provides the ideal solution for hidden ceiling installation in flats and apartments.

The unit has a very large duty range over 116 l/s (418 m³/hr) at 200 Pa.

Features & Benefits

- High energy efficiency levels, via Electronically Commutated (EC) motor
- Very low power consumption/specific fan power
- Airflow up to 137 l/s (493 m³/h) at 100 Pa
- Compact – unit is small and low in profile, can be fitted in airing cupboards, cupboards or loft spaces
- Easy installation due to innovative sub-assembly and unique packaging design
- Optional two part installation
- Performs to high levels through rectangular ports; does away with need for round to rectangular adaptors, saving cost, reducing joints and installation time
- Optional adjustable humidity sensor (between 55% RH & 85% RH) triggers boost speed proportionally
- Duct ports on one level, lessening need for unnecessary bends in ducting, saving cost, reducing joints and installation time
- Ideal for central mechanical ventilation in refurbishment of single floor dwellings where there is only space for rectangular ducting
- Low unit noise
- Fully adjustable boost overrun timer 0-30 minutes
- Can accept either 204mm x 60mm (standard) or 110mm x 54mm ducting (using provided converter)
- Unit can be cleaned and serviced without disturbing ducting
- Original enclosure design with 204mm x 60mm spigots on one level, ideal for low profile ceiling mounting
- For use in conjunction with Titon trickle vents
- Available in volt free and switch live inputs
- Hidden fixings
- Quick and easy commissioning
- Demand control ventilation ready
- Wide duty range
- Patent applied
- Can be mounted on any plane

For use with Titon Trickle Ventilators - see page 106.
Description
Titon CME2 Q Plus whole-house central mechanical extract ventilation unit.

Product Codes
TP325 CME base only (First fix).
Volt free switch inputs
TP302A CME 2 Q Plus (Full assembly).
TP302HA CME 2 Q Plus, humidity sensor (Full assembly).
TP303A CME 2 Q Plus Fan assembly only (Second fix).
TP303HA CME 2 Q Plus Fan assembly only, humidity sensor (Second fix).

Switch live inputs
TP304HA CME 2 Q Plus, humidity sensor (Full assembly).
TP305HA CME 2 Q Plus Fan assembly only, humidity sensor (Second fix).

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.

SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.
Conforms to requirements of EC council directives relating to Electromagnetic Compatibility and Electrical Safety:
CE Marked.
Other non-UK info available on request.

Specification
Dimensions (excluding ports):
355mm wide x 421mm long x 252mm high
Weight: 5kg
Finish: Light grey / dark grey
Materials:
Housing: Talc Filled Polypropylene

Guarantee period: 3 years (UK only)

Electrical: 230V ~ 50/60Hz, 3A fuse

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.


Acoustics: Full acoustic data available online www.titon.com/acoustics

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Nominal Fan Performance

Figures taken from the BRE Test Results apply for both the standard and humidity versions.

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Test results available for use with 110 x 54mm ducting.

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Airflow l/s</th>
<th>% of Max airflow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>db(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Induct Inlet</td>
<td>Casing Breakout</td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>CME2 Q Plus</td>
<td>36 l/s</td>
<td>41%</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>57 l/s</td>
<td>65%</td>
<td>33</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>85 l/s</td>
<td>100%</td>
<td>42</td>
<td>41</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
CME3 Q Plus
Continuous Mechanical Extract

For use in dwellings with six wet rooms or fewer

The new CME3 Q Plus is ideal for continuous extract of stale, damp and polluted air to the outside environment.

The CME3 Q Plus is the latest addition to the centralised mechanical extract unit range. The combination of aesthetic smooth lines and a low profile makes it the ideal solution for hidden ceiling installation in flats and apartments.

The unit has a very large duty range over 105 l/s (380 m³/hr) at 200 Pa.

Features & Benefits

- High energy efficiency levels, via Electronically Commutated (EC) motor
- Very low power consumption/specific fan power
- Airflow up to 120 l/s (430 m³/h) at 100 Pa
- Compact – unit is small and low in profile, can be fitted in airing cupboards, cupboards or loft spaces
- Easy installation due to innovative sub-assembly and unique packaging design
- Optional adjustable humidity sensor (between 55% RH & 85% RH) increases unit’s speed proportionally
- Low unit noise
- Fully adjustable boost overrun timer 0-30 minutes
- Can accept either Ø125 and/or Ø100
- Unit can be cleaned and serviced without disturbing ducting
- For use in conjunction with Titon trickle vents
- Available in volt free and switch live inputs
- Quick and easy commissioning
- Demand control ventilation ready
- Wide duty range
- Can be mounted on any plane

For use with Titon Trickle Ventilators - see page 106.
Description
Titon CME3 Q Plus whole-house central mechanical extract ventilation unit.

Product Codes
Volt free switch inputs
TP332A CME3 Q Plus (Full assembly).
TP332HA CME3 Q Plus, humidity sensor (Full assembly).
Switch live inputs
TP334HA CME3 Q Plus, humidity sensor (Full assembly).

Standards
Conforms to requirements of UK statutory Building Regulations and Technical Standards for Ventilation and BRE 398.

SAP Appendix Q tested.
Exceeds requirements of Building Regulations Approved Document L (England & Wales).
EU RoHS Directive compliant.


CE Marked.
Other non-UK info available on request.

Specification
Dimensions (excluding ports):
310mm wide x 340mm long x 252mm high (excluding spigots)

Weight: 5 kg

Finish: Light grey / dark grey

Materials:
Housing: Talc Filled Polypropylene

Guarantee period: 3 years (UK only)

Electrical: 230V ~ 50/60Hz, 3A fuse

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.


Acoustics: Full acoustic data available online www.titon.com/acoustics

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

<table>
<thead>
<tr>
<th>Exhaust terminal configuration*</th>
<th>Fan speed setting</th>
<th>SFP (W/l/s) 2009</th>
<th>SFP (W/l/s) 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen + 1 additional wet room</td>
<td>100% variable</td>
<td>0.18</td>
<td>0.18</td>
</tr>
<tr>
<td>Kitchen + 2 additional wet rooms</td>
<td>100% variable</td>
<td>0.16</td>
<td>0.16</td>
</tr>
<tr>
<td>Kitchen + 3 additional wet rooms</td>
<td>100% variable</td>
<td>0.17</td>
<td>0.17</td>
</tr>
<tr>
<td>Kitchen + 4 additional wet rooms</td>
<td>100% variable</td>
<td>0.19</td>
<td>0.19</td>
</tr>
<tr>
<td>Kitchen + 5 additional wet rooms</td>
<td>100% variable</td>
<td>0.21</td>
<td>0.21</td>
</tr>
<tr>
<td>Kitchen + 6 additional wet rooms</td>
<td>100% variable</td>
<td>0.25</td>
<td>0.25</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results apply for both the standard and humidity versions.

*Number of wet rooms is based on SAP Q test criteria and does not correlate directly with regulatory performance requirements.

Test results available for use with 100mm ducting.

Nominal Fan Performance

<table>
<thead>
<tr>
<th>Nominal Speeds</th>
<th>%</th>
<th>Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>53</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>65</td>
<td>19</td>
</tr>
<tr>
<td>6</td>
<td>77</td>
<td>28</td>
</tr>
<tr>
<td>7</td>
<td>88</td>
<td>40</td>
</tr>
<tr>
<td>8</td>
<td>100</td>
<td>57</td>
</tr>
</tbody>
</table>

Boost speeds 100% variable

Acoustic Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Airflow l/s</th>
<th>% of Max flow</th>
<th>dB(A) @ 3m Hemispherical</th>
<th>dB(A) @ 3m Spherical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Induct Inlet</td>
<td>Casing Breakout</td>
<td></td>
<td>Casing Breakout</td>
</tr>
<tr>
<td>CME3 Q Plus</td>
<td>42 l/s</td>
<td>41%</td>
<td>19</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>69 l/s</td>
<td>65%</td>
<td>35</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>104 l/s</td>
<td>100%</td>
<td>44</td>
<td>45</td>
</tr>
</tbody>
</table>

For full frequency acoustic data at various speeds please see www.titon.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.
For use in a wide range of dwellings

Titon’s steel framed access panels offer a lightweight solution for access to the Titon CME when required.

Titon’s Access Panels provide excellent access to our CME unit that can be located in a ceiling void. They allow suitable access for applications where plastic access panels are not suitable and a fire rating is not required.

Material and colour choice
- Electro galvanised mild steel
- Polyester powder coated smooth finish 20% gloss
- White – RAL 9016

Installation advice
- Please contact the Titon’s Technical team

Care and maintenance
Clean using a soft cloth with a mild detergent
- Spare keys available upon request

Features & Benefits
- Purpose made product saves time and money compared with traditional joiner made access doors
- Excellent aesthetic appearance and finish
- Flush fitting door panels
- Visible picture frame surround smartly conceals cut out edges and contributes to a faster installation
- Smooth and enduring polyester powder coated finish
- Allows for painting if required
- Quick and straight forward to install
- Universal door handing
- Supplied with additional fixing anchors (+50mm) for deeper wall and ceiling installations
- Hinged door panel with twist lock mechanism
- Quick release door panel mechanism fully removes to the door for maximum access
- Acoustic performance of 24dB (contact the Titon Technical team for more information)

Product Range

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Frame Fitting</th>
<th>Clear Opening</th>
<th>Overall Panel and Frame Dimension</th>
<th>Door and lock type</th>
</tr>
</thead>
<tbody>
<tr>
<td>89801</td>
<td>605 x 605mm</td>
<td>575 x 575mm</td>
<td>635 x 635mm</td>
<td>Hinged with APB600x600NFR twist lock</td>
</tr>
</tbody>
</table>
For use in a wide range of dwellings

Titon’s picture frame access panels offer multi performance, with 1 hour fire rated steel access panels that feature mineral wool and draught stripping, allowing for greatly reduced air leakage and an excellent acoustic performance.

Titon’s Fire Rated Access Panels provide excellent access to our CME units that will be located in a ceiling void. They allow suitable access for applications where a 1 hour fire rating is required.

Material and colour choice

- Electro galvanised mild steel
- Glass wool insulation (45kg/m³)
- Polyester powder coated smooth finish 20% Gloss
- White – RAL 9016

Installation advice

- Please contact the Titon’s Technical team

Care and maintenance

- Clean using a soft cloth with a mild detergent
- Spare keys available upon request
- Lock and hinge mechanism can be oiled with a standard metal lubricant if required

Features & Benefits

- Purpose made product saves time and money compared with traditional joiner-made access doors
- Fire rating independently tested by Exova Warrington fire
- Mineral wool insulation and draught stripped to reduce the opportunity of air leakage in application
- 32mm low profile frame ideal for installation with 15mm plaster board
- Flush fitting door panels with excellent aesthetic appearance and finish
- Visible picture frame surround smartly conceals cut out edges and contributes to a faster installation
- Enduring polyester powder coated finish
- Allows for painting if required
- Quick and straightforward to install
- Universal door handing
- Hinged door panel with T-key lock mechanism - Key lock available upon request
- Quick release door panel mechanism fully removes to the door for maximum access
- Acoustic performance of 33dB

Product Range

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Frame Fitting</th>
<th>Clear Opening</th>
<th>Overall Panel and Frame Dimension</th>
<th>Door and Lock Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>89802</td>
<td>605 x 605mm</td>
<td>560 x 560mm</td>
<td>650 x 650mm</td>
<td>Hinged with T-key lock</td>
</tr>
</tbody>
</table>
For use in small to medium sized dwellings

Constant flow dMEV fan for bathroom, kitchen and utility room applications with adjustable continuous and fixed boost speed settings. Solitude is the most efficient dMEV available.*

The Solitude constant flow dMEV fan is a discreet single fan suitable for new build or refurbishment projects.

Solitude can be wall, ceiling or panel mounted**, whilst the unique impeller design ensures powerful performance with minimal noise.

The Solitude constant flow dMEV uses a boost with overrun timer that is adjustable between 0 - 30 minutes, manually activated via remote switch.

* Accurate at date of test

** To maintain the IPX4 rating when ceiling mounted, a kit must be used. Please contact us for availability of ceiling mounting kits.

For use with Titon Trickle Ventilators - see page 102.

Features & Benefits

→ Most efficient dMEV available
→ Discreet aesthetic
→ Easy clean design
→ Quiet running, only 11dB(A) at 3m, low speed
→ Specific fan power down to 0.09 W/l/s
→ Two speed (selectable low speed)
→ Unique high performance low noise impeller design
→ IPX4 rated**
→ Constant flow technology
→ Double insulated (requires no earth)
→ Designed and manufactured in accordance with EN60335-2-80 Low Voltage Directive and the EMC Directive (Electromagnetic Compatibility)
→ Complies with Building Regulations Part F (England and Wales)
→ Motor mounted on high quality sealed for life ball bearings
→ Capacitor type PCB power supply reducing PCB heat loss
→ 18 months guarantee (UK only)
→ PCDB listed for inclusion within SAP
→ Meets stringent 5 Pa back pressure requirement
Description
Solitude constant flow Decentralised Mechanical Extract Ventilation unit with run on timer.

Product Codes
TP210 - Solitude with Overrun Timer

Standards
Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility). Air performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 Kg/m³. CE marked.

Specification
Dimensions: 164mm x 164mm with 46mm projection
Weight: 0.6Kg
Finish: White gloss RAL 9010, UV resistant
Materials: Shock-proof ABS casing
Guarantee period: 18 months (UK only)
Electrical: 220-240 V ~ 50Hz
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.
Maintenance: Service, clean, replace subject to local environment - see product manual.

Ducting Kits
Our ducting kits are recommended to maintain flow rates and are available in Ø100mm and 110x54mm rectangular. Kits contain; 3m duct, bends, grille and accessories. Calculated resistance rates are also included in ducting kit literature.

Jumper switch settings

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Installation</th>
<th>Airflow</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>constant flow</td>
<td>47 m³/h - 13 l/s</td>
</tr>
<tr>
<td>2</td>
<td>constant flow</td>
<td>36 m³/h - 10 l/s</td>
</tr>
<tr>
<td>3</td>
<td>constant flow</td>
<td>29 m³/h - 8 l/s</td>
</tr>
<tr>
<td>✓</td>
<td>constant flow</td>
<td>21 m³/h - 6 l/s</td>
</tr>
<tr>
<td>✓</td>
<td>in room</td>
<td>47 m³/h - 13 l/s</td>
</tr>
<tr>
<td>✓</td>
<td>in room</td>
<td>29 m³/h - 8 l/s</td>
</tr>
<tr>
<td>✓</td>
<td>through wall</td>
<td>47 m³/h - 13 l/s</td>
</tr>
<tr>
<td>✓</td>
<td>through wall</td>
<td>29 m³/h - 8 l/s</td>
</tr>
</tbody>
</table>

Gain made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installations.

Performance
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

<table>
<thead>
<tr>
<th>Location</th>
<th>Ducted in room</th>
<th>Direct exhaust through wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan speed setting</td>
<td>47 m³/h</td>
<td>29 m³/h</td>
</tr>
<tr>
<td></td>
<td>13 l/s</td>
<td>8 l/s</td>
</tr>
<tr>
<td>SFP m³/h s Rigid or flexible ducting</td>
<td>0.13</td>
<td>0.11</td>
</tr>
</tbody>
</table>

Figures taken from the BRE Test Results

<table>
<thead>
<tr>
<th>Airflow m³/h</th>
<th>Airflow l/s</th>
<th>Max power (W)</th>
<th>Sound pressure dB(A) @ 3m</th>
<th>Max ambient temp °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>83</td>
<td>23</td>
<td>2.5</td>
<td>32</td>
<td>50</td>
</tr>
<tr>
<td>47</td>
<td>13</td>
<td></td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>10</td>
<td></td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>8</td>
<td></td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>6</td>
<td></td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

Full Boost
Selectable Trickle (low speed)

Curve at maximum speed

Sales and Technical Support +44 (0) 1206 713801  www.titon.com
Solace

DMEV fan for bathroom, kitchen and utility room applications with adjustable continuous and fixed boost speed settings.

The Solace DMEV fan is a discreet single fan suitable for new build or refurbishment projects. Solace can be wall, ceiling or panel mounted*, whilst the unique impeller design ensures powerful performance with minimal noise.

The Solace is available in three different versions:

- Basic Fan: Boost manually activated via remote switch.
- Overrun Timer: Boost with overrun timer adjustable between 0 - 30 minutes, manually activated via remote switch.
- Humidistat & Timer: Humidity sensor adjustable between 50 - 95%, activates Comfort Boost increasing airflow to an intermediate speed less intrusive than full boost. Boost with overrun timer adjustable between 0 - 30 mins, manually activated via remote switch.

* To maintain the IPX4 rating when ceiling mounted, a kit must be used. Please contact us for availability of ceiling mounting kits.

For use with Titon Trickle Ventilators - see page 102.

Features & Benefits

- Discreet aesthetic
- Easy clean design
- Quiet running, only 11dB(A) at low speed with 3m ducting
- Specific fan power down to 0.09 W/l/s
- Two speed (selectable low speed)
- Comfort Boost on Humidistat option
- Unique high performance low noise impeller design
- IPX4 rated*
- Double insulated (requires no earth)
- Designed and manufactured in accordance with EN60335-2-80 Low Voltage Directive and the EMC Directive (Electromagnetic Compatibility)
- Complies with Building Regulations Part F (England and Wales)
- Motor mounted on high quality sealed for life ball bearings
- Capacitor type PCB power supply reducing PCB heat loss
- 18 months guarantee (UK only)
**Description**
Solace Decentralised Mechanical Extract Ventilation unit with timer/humidity variants available.

**Product code**
- TP200/BA - Basic Fan
- TP200/RT - Solace with Overrun Timer
- TP200/HT - Solace with Humidistat & Timer

**Standards**
Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility). Air performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 Kg/m³. CE marked.

**Specification**
**Dimensions:**
164mm x 164mm with 46mm projection

**Weight:** 0.6Kg

**Finish:** White gloss RAL 9010, UV resistant

**Materials:** Shock-proof ABS casing

**Guarantee period:** 18 months (UK only)

**Electrical:** 220-240 V ~ 50Hz

**Installation:** Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

**Maintenance:** Service, clean, replace subject to local environment - see product manual.

**Ducting Kits**
Our ducting kits are recommended to maintain flow rates and are available in Ø100mm and 110x54mm rectangular. Kits contain; 3m duct, bends, grille and accessories. Calculated resistance rates are also included in ducting kit literature included in ducting kit literature.

**Jumper switch settings**

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Installation</th>
<th>Airflow</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>through wall</td>
<td>OFF</td>
</tr>
<tr>
<td>2</td>
<td>through wall</td>
<td>6 l/s</td>
</tr>
<tr>
<td>3</td>
<td>through wall</td>
<td>8 l/s</td>
</tr>
<tr>
<td>4</td>
<td>through wall</td>
<td>13 l/s</td>
</tr>
<tr>
<td>5</td>
<td>in room</td>
<td>OFF</td>
</tr>
<tr>
<td>6</td>
<td>in room</td>
<td>6 l/s</td>
</tr>
<tr>
<td>7</td>
<td>in room</td>
<td>8 l/s</td>
</tr>
<tr>
<td>8</td>
<td>in room</td>
<td>13 l/s</td>
</tr>
</tbody>
</table>

**Curve at maximum speed**

**Performance**

<table>
<thead>
<tr>
<th>Airflow m³/h</th>
<th>Airflow l/s</th>
<th>Max power (W)</th>
<th>Sound pressure dB(A) @ 3m</th>
<th>Max ambient temp °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>83</td>
<td>23</td>
<td>4</td>
<td>32</td>
<td>50</td>
</tr>
<tr>
<td>47</td>
<td>13</td>
<td></td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>8</td>
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<td>21</td>
<td>6</td>
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<td>11</td>
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</tbody>
</table>

**Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installations.**

**Curve at maximum speed**

**Fan speed setting**
- **Ducted in room**
  - Location: Kitchen, Wet room
  - Fan speed setting: 47 m³/h, 29 m³/h

- **Direct exhaust through wall**
  - Location: Kitchen, Wet room
  - Fan speed setting: 13 l/s, 8 l/s

- **SFP w/l/s**
  - Kitchen: 0.13, 0.09
  - Wet room: 0.11, 0.09
Controls, Switches and Sensors

Products in this section assist in offering compliance with Building Regulations (England & Wales) System 3 or 4.
**Controllers, Switches and Sensors**
(for System 3 and 4)

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Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
For use with Titon's HRV Q Plus Range

Titon has launched its new auraSMART® app, which enables greater user control of our HRV range of MVHR units. Easy and straightforward to use, the new auraSMART® app is ideal for installers and homeowners alike.

The new auraSMART® app available using Android or iOS mobile devices allows greater flexibility and control. With a user friendly interface, easy monitoring of your whole house ventilation systems is possible. Ideal for commissioning to guide the install process, the new auraSMART® app can cater for it all. Helping you to maintain indoor air quality for a healthy home environment.

Description
auraSMART® app is available on google and apple platforms. Compatible with aura-t™ SMART (WiFi) TP736 controller.

Features & Benefits
→ Greater flexibility and control of your MVHR
→ Available on android or apple platforms
→ Clear and simple interface for ease of use
→ Simple and straightforward commissioning
→ MVHR status, including service information
→ Monitor and control functions
→ Set-point adjustments, RH, boost overrun times etc.
→ WiFi direct connection for installers (no internet required)
→ Full internet connection enables users to check and amend their ventilation whilst away from the home
→ Assign different functions to switch inputs on the controller
→ Link to multiple HRV units from the same APP
→ Compatible with “B” model Titon HRV control systems with WiFi enabled and aura-t™ SMART (WiFi) controller

auraSMART® app is a multi-language controller where the user can select from the following languages:
- English
- Danish
- Dutch
- French
- German
- Italian
- Spanish
- Polish
- Lithuanian
- Russian
- Ukrainian
- Slovenian
- Hungarian
- Slovakian
- Czech
- Latvian
- Estonian

App Functions
- Internet or Direct WiFi Connection
- Fan Speed Control
- Fan Commissioning
- Summer Bypass Control
- Boost Control
- Humidity Threshold Setting
- Switch/Control Options
- Timer Scheduler
- Set Additional Switch Inputs

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
aura-t™ SMART (WiFi) is a simple yet striking touchscreen controller for programming, commissioning and occupancy control for Titon’s range of Mechanical Ventilation Heat Recovery (MVHR) units.

The aura-t™ SMART (WiFi) controller allows straightforward operation of ventilation speeds. Offering WiFi connection via Titon’s auraSMART® app available via Android or iOS mobile devices.

aura-t™ SMART (WiFi) provides the following functions:

- Compatible with auraSMART® app
- WiFi connection
- Digital 4 speed switch
- Auto timed speed mode
- 7-day, 4 events per day programmable Speed 1 timer
- Filter change indicator
- Internal MVHR humidity set point adjustment
- Boost inhibit functions linked to timed Speed 1 (avoiding night time boosting via either switch inputs or humidity)

aura-t™ SMART (WiFi) is an icon based rather than language specific controller.

**Features & Benefits**

- Simple user friendly interface
- WiFi connection
- Compatible with auraSMART® app
- Compact sleek design
- 4 speed manual control (OFF feature)
- 7 day programmable automatic Speed 1 timer
- Real-time fan commissioning for all speeds
- Filter change alert indicator
- Internal humidity threshold adjustment
- Kitchen & wet room boost overrun time adjustment
- Programmable boost inhibit
- Switch configuration menu
- Time and day display
- Backlight with automatic dimming
- Real-time indication of HRV status and operating mode
- Optional passcode protected commissioning and setup screens
- Summer bypass configuration menu
- 8 hour time out for manual operation
- Fan failure indication
- Fan speed cloning - copy settings from one to another
- Compatible from software version FW0027-0206 onwards circa. June 2016

**Description**

Titon’s aura-t™ SMART (WiFi) is for commissioning and monitoring a Titon TP***B HRV Q Plus unit.

**Product Code**

aura-t™ SMART (WiFi) - TP736

**Specification**

Dimensions: 87mm wide x 87mm high x 24mm deep supplied with 3 metre connection cable.

Weight: 185g

Finish: High gloss finish

Materials: ABS

Guarantee period: 1 year

Electrical: 12V DC
aura-t™ is a simple yet striking touchscreen controller for programming, commissioning and occupancy control for Titon’s range of Mechanical Ventilation Heat Recovery (MVHR) units. The aura-t™ touch screen controller allows straightforward operation of ventilation speeds. Offering a display that is backlit.

aura-t™ provides the following functions:
- Digital 4 speed switch
- Auto timed speed mode (TP536/EU only)
- 7-day, 4 events per day programmable Speed 1 timer (TP536/EU only)
- Filter change indicator
- Internal MVHR humidity set point adjustment
- Boost inhibit functions linked to timed Speed 1 (avoiding night time boosting via either switch inputs or humidity)

aura-t™ is an icon based rather than language specific controller.

For use with Titon HRV Q Plus B Model Range

aura-t™ HRV is for commissioning and monitoring a Titon TP***B HRV Q Plus unit.

Features & Benefits
- Simple user friendly interface
- Not compatible with auraSMART® app
- Compact sleek design
- 4 speed manual control (OFF feature TP536/EU only)
- 7 day programmable automatic Speed 1 timer (TP536/EU only)
- Real-time fan commissioning for all speeds
- Filter change alert indicator
- Internal humidity threshold adjustment
- Kitchen & wet room boost overrun time adjustment
- Programmable boost inhibit (TP536/EU only)
- Switch configuration menu
- Time and day display
- Backlight with automatic dimming
- Real-time indication of HRV status and operating mode
- Optional passcode protected commissioning and setup screens
- Summer bypass configuration menu
- 8 hour time out for manual operation (TP536/EU only)
- Fan failure indication
- Manual boost inhibit (TP536/GBR only)
- 1 hour time out for Speeds 1,3 and 4 (TP536/GBR only)

Description

Titon’s aura-t™ HRV is for commissioning and monitoring a Titon TP***B HRV Q Plus unit.

Product Code
aura-t™ - TP536/EU
aura-t™ - TP536/GBR

Specification
- Dimensions: 87mm wide x 87mm high x 24mm deep supplied with 3 metre connection cable.
- Weight: 185g
- Finish: High gloss finish
- Materials: ABS
- Guarantee period: 1 year
- Electrical: 12V DC
aura-t™ is a simple yet striking touchscreen controller for programming, commissioning and occupancy control for Titon’s range of Mechanical Ventilation Heat Recovery (MVHR) units.

The aura-t™ touch screen controller allows straightforward operation of ventilation speeds. Offering a display that is backlit, and provides enhanced functionality when connected to a 2019 HMB model.

aura-t™ provides the following functions:

- Digital 4 speed switch
- Filter change indicator
- Internal MVHR humidity set point adjustment
- Boost inhibit
- 4 speed settings
- Running hour indicator
- Fan speed cloning
- Switch input set up
- Summer bypass temperature settings

aura-t™ is an icon based rather than language specific controller.

**For use with Titon HRV Q Plus HMB Model Range**

**Drawing and Dimensions**

Dimensions in mm:

- 87 mm wide x 87 mm high x 24 mm deep supplied with 3 metre connection cable with moulded 4 way plug.

**Product Code**

aura-t™ - TP539

**Specification**

- **Dimensions:** 87 mm wide x 87 mm high x 24 mm deep
- **Weight:** 185g
- **Finish:** High gloss finish
- **Materials:** ABS
- **Guarantee period:** 1 year
- **Electrical:** 12V DC
auramode® is a simple yet powerful LCD display for programming, commissioning and occupancy control for Titon’s range of Mechanical Ventilation Heat Recovery (MVHR) units.

The auramode® allows straightforward operation of ventilation speeds at a click of a button. Offering a display that is back lit with adjustable light and contrast settings.

auramode® provides the following functions:
- Digital 4 speed switch (speeds 1, 2, 3 or 4)
- Auto timed speed mode
- 7-day, 8 settings per day programmable speeds
- Filter change indicator with adjustable (1-24 months independent filter check and filter change intervals)
- Internal MVHR humidity set point adjustment
- Boost inhibit functions linked to timed speeds (avoiding night time boosting via either switch inputs or humidity)

auramode® is a multi-language controller where the user can select from the following languages:

- English
- Dutch
- French
- German
- Italian
- Spanish
- Polish
- Lithuanian
- Russian
- Ukrainian
- Slovenian
- Hungarian

Features & Benefits

- User friendly interface
- Fan speed commissioning
- Multiple languages available
- Digital 3 or 4 speed switch (user selectable)
- 7 day, 8 programmable fan speed settings
- Boost inhibit
- Compact design
- Filter change indication
- Internal MVHR humidity sensor set point
- Compatible with TP***B MVHR models
- Kitchen boost overrun timer adjustment
- Wet room boost overrun timer adjustment
- Volt free and mains voltage MVHR Switch configuration setup
- High flow boost setting (speed 4)
- Summerboost boost on/off selection
- Single button operation for everyday basic functions
- Low voltage, hard wired status programmer

Description

Titon’s auramode® HRV is for commissioning and monitoring a Titon TP***B HRV Q Plus unit.

Product Code

auramode® - TP524
auramode® Constant Flow Controller - BP52422

Specification

Dimensions: 86mm wide x 86mm high x 16mm deep
Supplied with 14 metre connection cable (plug connection to auramode®, 4 wire to MVHR)

Weight: 185g
Finish: High gloss finish
Materials: ABS
Guarantee period: 1 year
Electrical: 12V DC

Drawing and Dimensions

Dimensions in mm
aurastat® V & VT
HRV Q Plus Controller

For use with Titon HRV Q Plus Range - enhanced commissioning capabilities

aurastat® is a low voltage, intelligent controller with LCD display for commissioning and monitoring a Titon TP***B HRV unit. It is wired to the unit but situated remotely.

aurastat® V also has a commissioning only option. Once programmed, the HRV unit runs without the need for the controller.

aurastat® is controlled via buttons that configure and monitor the HRV using five different menu systems:

- Monitor and control ‘Run’ menu
- User set up ‘SETUP1’
- Service and set up ‘SETUP2’
- Commissioning and installation ‘SETUP3’
- Reset ‘RESET4’

The display is a back lit 90mm LCD screen which combines a mixture of icons, text and figures aurastat® can be used to set and control a number of features including:

- Boost alert timer
- Summer Mode, Summer Bypass and SUMMERboost® settings
- Duct Pre-Heater settings
- Room sensor set points
- Internal humidity settings
- Continuous, boost and set back speeds

The home occupant has access to set a number of features themselves, such as:

- 24-hour clock
- Day of week display
- Back light brightness
- Boost overrun timer
- Boost delay timer
- Boost inhibit times
- Internal humidity sensor set point
- Filter change alert interval and reset

aurastat® VT has the additional features of programmable weekly timers that are used to setback or boost the ventilation rates at specific times.

aurastat® is used to set up and control specific versions of Titon’s HRV units. For compatibility please contact us on +44 (0)1206 814879 or ventsales@titon.co.uk.

Features & Benefits

- User friendly interface showing system status, fan speeds/air temperature and more
- Boost alert triggers a warning message when the HRV has been left in boost
- Grants the occupant accessibility and control
- PIN protected menu structure for commissioning
- Low power consumption
- Individual supply/extract fan speed settings
- Separate kitchen and wet room boost function settings
- Demand control features via 2 x 0-10V DC proportional sensor inputs (power supplied from main PCB, RH, CO₂, Air quality and temperature)
- Fully automatic summer bypass
- Intelligent frost protection
- Boost delay
- Boost inhibit within selected time zones
- Running hours recorder
- Internal MVHR humidity sensor setpoint
- Fully adjustable SUMMERboost® speed (linked to automatic bypass)
- Programmable timer option Mains voltage and volt free boost switching

Product Codes
aurastat® V - TP526
aurastat® VT - TP534

Standards
Patented and Registered design

Specification
Dimensions: 106mm wide x 141mm high x 25mm deep
Weight: 185g
Finish: High gloss finish
Materials: ABS
Guarantee period: 3 years (UK only)
Electrical: 12V DC

Drawing and Dimensions

Dimensions in mm

Sales and Technical Support +44 (0) 1206 713801 www.titon.com 81
auralite® is a low voltage, hard wired status indicator sited remotely from the unit.

auralite® has six LEDs which display:

- **Normal**: the system is running at continuous speed (normal mode) or the unit is running at setback speed if this light is flashing.

- **Frost**: the unit is in automatic frost protection mode. TP519 if flashing - internal frost protection - indoor temperature low - both fans stop.

- **Filter**: the filters require changing.

- **Boost**: the system is running in boost speed. TP518 - If flashing indicates boast alert (HMB model only).

- **Summer**: the unit is in summer bypass mode. TP519 - If flashing indicates SUMMERboost®/speed 4 (B model only).

- **Fault**: there is a fault with the system and the installer should be contacted.

- **Normal/Boost**: alternating indicates demand control from proportional sensors (only applicable with TP519).

auralite® is to be used with Titon’s HRV units. For compatibility please contact us on +44 (0)1206 814879 or ventsales@titon.co.uk.

**Description**

Titon auralite® remote status indicator for use with Titon HRV Q Plus unit.

**Product Code**

- auralite® - *TP518* (Compatible with TP***HMB Only)
- auralite® - *TP519* (Compatible with TP***B Only)

**Standards**

Meets guidelines for occupant accessibility as set out in NHBC Standards 2017 - Section 8.3.6: MVHR systems should include visual indicators showing maintenance and serving requirements, and mode of operation. These should be visible from within the insulated envelope, not obscured from view, and be simple to use.

*Flying lead option only, where aura-®™ is not present.*
Features & Benefits

- Movement sensor auto on, auto off
- Lux level sensing
- This version is a voltage free contact option and suitable for use with BMS and control applications.

Supply Voltage: 220-240 Volts AC 50 Hz
Time Out Period: Adjustable 10 seconds to 60 minutes in two ranges
Light Level: Optional adjustment by thumbwheel light to dark.
Fixing Method: Surface fixing 25mm deep plastic surface mount moulded box. Flush fixing 25mm steel wall box or 32mm deep cavity wall box.
Terminal Capacity: 1.5mm²
Material: Flame retardant ABS
Type: Class 2
Temperature: -10°C to 35°C
Conformity: EMC-2004/108/EC LVD-2006/95/EC

Wiring Diagram
The PIR comes with a voltage free output contact with the following connections: common (COM); normally open (NO) and normally closed (NC).

The detector should be sited so that the occupants of the room fall inside the detection pattern shown overleaf, at a recommended height of 1.2m to 1.5m for wall sensors.
Note that the higher the sensor is installed the shorter the detection range will be.

- Avoid direct sunlight entering the sensor
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.

For use with Titon HRV Q Plus Range

The PIR detector switch is designed to provide automatic control of ventilation loads. They detect movement using a PIR sensor and turn the load on. When an area is no longer occupied the unit will switch off after an adjustable time out period.

When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied. A selectable power up delay allows the installer to choose whether the load comes on immediately when the unit is powered up or is kept off for a small time (about 40 seconds) to allow the sensor to settle.

Drawing and Dimensions

Part Number: TP580

Specification
10 Amp resistive load
10 Amp incandescent lighting
6 Amp fluorescent lighting
3 Amp compact fluorescent lighting
3 Amp low energy lighting
3 Amp low voltage lighting (switch primary of transformer)
Fluorescent lighting (max 6 fittings recommended)
For fluorescent lighting total power factor correction capacitance must not exceed 40μF.
3 Amp fans and ventilation equipment
Switch SON lighting loads via a contactor

Dimensions in mm

[Diagram of PIR detector switch with wiring diagram]
For use with Titon HRV Q Plus Range

The TP583 ceiling mounted (passive infrared) presence detector provides automatic timed control of ventilation with optional manual control.

The output channel comprises a mains voltage relay capable of simple on/off switching. This unit provides an isolated voltage free contact output.

Functioning as a presence detector, the unit can boost when a room is occupied and off when the room is empty.

Drawing and Dimensions

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP583</td>
<td>Ceiling PIR presence/absence detector volt free contact</td>
</tr>
<tr>
<td>TP584</td>
<td>UHS5 Programming IR handset</td>
</tr>
</tbody>
</table>

Features & Benefits

- **PIR Sensor** - Detects movement within the unit’s detection range, allowing load control in response to changes in occupancy.
- **IR Receiver** - Receives control and programming commands from an IR (infrared) handset.
- **Light Level Sensor** - Measures the overall light level in the detection area.
- **Status LEDs** - The LED flashes Red to indicate the following: Power Input & Switch Input Connector. Used to connect mains power to the unit and to connect a switch to manually override the lights on or off.
- **Output Connector** - Connection to a switched load.

Specification (Load)

- **Weight**: 0.15kg
- **Supply Voltage**: 230VAC +/- 10%
- **Frequency**: 50Hz
- **Maximum Load**:
  - Normally open contact
  - 6 Amp fluorescent lighting and resistive
  - 3 Amp compact fluorescent lighting
  - 3 Amp low energy lighting
  - 3 Amp low voltage lighting (switch primary of transformer)
  - Fluorescent lighting (max 6 fittings recommended)
  - Fluorescent lighting (max 6 fittings recommended)
  - For fluorescent lighting total power factor correction capacitance must not exceed 40μF.
  - 3 Amp fans and ventilation equipment
  - Switch SON lighting loads via a contactor
  - Minimum load 100mA
  - Normally closed contact
  - 2 Amp maximum
  - Minimum load 100mA

- **Time Period**: 1-30 minutes
- **Power consumption**: On 286mW, Off 728mW
- **Terminal Capacity**: 2.5mm²
- **Temperature**: -10°C to 35°C
- **Humidity**: 5 to 95% non-condensing
- **Material (casing)**: Flame retardant ABS and PC/ABS
- **Type**: Class 2
- **IP rating**: IP40
- **Compliance**: EMC-2004/108/EC LVD-2006/95/EC

Wiring Diagram
The Touch Button Timer delay switch is designed to provide timed control of ventilation loads. Using push button, touch (light press required), the user can switch on a load for a preset time period and have the load turn off automatically after the time period has elapsed.

Multiple timing ranges come as standard to allow the time out period to be set accurately. Time setting is achieved using switches and a thumbwheel at the rear of the unit.

**Drawing and Dimensions**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>TP581</td>
</tr>
<tr>
<td>Specification</td>
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<tr>
<td>10 Amp resistive load</td>
<td></td>
</tr>
<tr>
<td>10 Amp incandescent lighting</td>
<td></td>
</tr>
<tr>
<td>6 Amp fluorescent lighting</td>
<td></td>
</tr>
<tr>
<td>3 Amp compact fluorescent lighting</td>
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<td>3 Amp low voltage lighting (switch primary of transformer)</td>
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</tr>
<tr>
<td>Fluorescent lighting (max 6 fittings recommended)</td>
<td></td>
</tr>
<tr>
<td>For fluorescent lighting total power factor correction capacitance must not exceed 40μF.</td>
<td></td>
</tr>
<tr>
<td>3 Amp fans and ventilation equipment</td>
<td></td>
</tr>
<tr>
<td>Switch SON lighting loads via a contactor</td>
<td></td>
</tr>
</tbody>
</table>

**Features & Benefits**

- Pushing the button activates the circuit and starts the timing period (this is easily adjustable and is set at installation to any time between 1 second and 2 hours). Complete with voltage free contact.
- Adjustable timer
- Switches any type of load

**Wiring Diagram**

Wire TP581 as in the diagram below. Connection to the TRIG terminal is optional.

Applying a live to the trigger terminal will start the timer running. A momentary switch can be used, for example, in corridor lighting applications. A permanent input can be used, for example, in pump overrun applications.

To switch from more than one position simply wire two or more units in parallel to achieve two way and intermediate switching, or use the trigger terminal with a slave switch.

TP581 comes with a voltage free output contact with the following connections: common (COM); normally open (NO) and normally closed (NC).

When installing touch switches do not fix to a vibrating or uneven surface.
These products are for use with MVHR or CME units, depending on ventilation system design specification.

- **EHC1 Humidistat Internal Adjustment (TP500)**
  Activates Boost function on all HRV and CME units (volt free)

- **EHC2 Humidistat External Adjustment (TP501)**
  Activates Boost function on all HRV and CME units (volt free)

- **Boost Switch (latching) (TP502)**
  Activates Boost function on all HRV and CME units

- **Boost Switch (momentary) (TP503)**
  Activates Boost (timer overrun) function on Q Plus units only

- **Summer Mode Switch (latching) (TP506)**
  Manual operation of Summer Mode on HRV A suffix units without Summer Bypass. Can be used on aurastat® with summer mode.

- **Boost Ceiling Switch (momentary) (TP507)**
  Activate the timer overrun on Q Plus units only

- **Room Thermostat (TP509)**
  Automatic operation of Summer Mode on HRV A suffix units only. Can be used on aurastat® with summer mode.

- **SUMMERboost® Switch (TP522)**
  Disables SUMMERboost® on HRV HMB suffix units only. Can be used on aurastat® and auramode®.

- **Multifunction Relay (TP505)**
  Enables multiple switching configurations and mains voltage switching for Q Plus units

- **3 Speed Switch (TP508)**
  A 3 position rotary switch to change between setback, continuous or boost running speeds.
Another form of ventilation - not covered directly by the suggestions in the England & Wales Regulations - these products also offer high levels of air filtration and sound attenuation. This makes them ideally suited to either new build or refurbishment situations in built-up areas or brownfield developments. With acoustics becoming a more important factor in more densely populated areas, the requirement for sound attenuating ventilators has increased. As standard/acoustic trickle ventilators cannot provide the attenuation levels necessary, more sophisticated solutions are required. The Sonair achieves acceptable noise reducing levels.
Other Systems

Sonair 82
Positive Input Ventilation Systems (PIV) 84

Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
For use fitted through walls

Sonair provides mechanical input ventilation when switched on, when switched off provides background trickle ventilation which includes a controllable shutter. Sonair is a wall mounted input fan featuring touch control with an LCD display.

- Sonair F+ ventilates and cleans the air
- Independently tested by the BRE
- Exceptional sound attenuation (up to 56dB*)
- Air cleaning
- Low energy

Features & Benefits

- Meets guidelines for occupant accessibility
- Increase occupant awareness of system operation
- Discreet design
- Supplied with a flexible cable and a 13 amp plug

Performance

Full test details available on request

Input airflow rate (m³/h) – 28-225

Acoustic Dn,e,w (+/-) – 55/56* (Sonair F+).

*depends on filter

Tested to the ‘Noise Insulation Regulations’.

Background ventilation rate of 2500EA when the unit is switched off and the shutter is open.

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sonair F+ including G3 Filter</td>
<td>S103SAUK</td>
</tr>
<tr>
<td>Sonair Filter G3</td>
<td>F211</td>
</tr>
<tr>
<td>Sonair Filter F6</td>
<td>F209</td>
</tr>
</tbody>
</table>
Installation

Seal the gaps around the duct

Grille

Duct at an angle of approximately 5 degrees downwards from the inside to the outside

Acoustics

Acoustics is becoming a more important factor in more densely populated areas, therefore the requirement for sound attenuating ventilators has increased. As standard/acoustic trickle ventilators cannot provide the attenuation levels necessary, more sophisticated solutions are required. The Sonair achieves acceptable noise reducing levels.

Sound Production

Sound pressure level, LpA; 10 m² according to ISO 3741

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Sonair F+</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G3 Filter</td>
</tr>
<tr>
<td>30 m³/h</td>
<td>&lt;11.5</td>
</tr>
<tr>
<td>45 m³/h</td>
<td>&lt;18.5</td>
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<tr>
<td>60 m³/h</td>
<td>23.5</td>
</tr>
<tr>
<td>90 m³/h</td>
<td>34</td>
</tr>
<tr>
<td>140 m³/h</td>
<td>43.5</td>
</tr>
</tbody>
</table>

Sound Attenuation according to ISO 140-10

| Dn,e,w dB (A) | 56 | 55 |

Independently tested to requirements of noise insulation regulations.

Dimensions

445 (H) x 310 (W) x 134 (D)

Housing

Plastic ABS white RAL 9003

Voltage

220-240V/50 Hz

Energy Consumption

Max. 13 Watt at 17 l/s (60 m³/hour)
Max. 43 Watt at 62.5 l/s (225 m³/hour)

Ventilation Capacity

Max. 62.5 l/s (225 m³/hour) with a G3 filter

Duct

100 mm (standard)

More information

www.titon.com or 01206 814879
Positive Input Ventilation Systems (PIV)

For use in domestic dwellings

Positive Input Ventilation or PIV is a concept that delivers fresh filtered air into a home at a continuous rate, which results in reducing condensation, mould and indoor pollution.

Available in two types for the new build market, PIV L (up to 2 floors) or PIV L3 which includes a fire diffuser and a remote control (up to 3 floors). Titon’s range of PIV units will create a healthy environment within any dwelling and help combat internal air quality issues.

PIV protects you against

- **Mould** - spores account for a significant amount of household dust.
- **Dust Mites** - you share your bed with thousands of them!
- **Smoke** - 5-10% of all lung cancer is linked directly to passive smoking.
- **Radon** - studies have shown a link to exposure increases the risk of lung cancer.
- **Volatile organic compounds (VOCs)** - can lead to irritation and headaches as well as risk of neurotoxic effects.

Features & Benefits

- Ultra low watt DC motor technology
- Sealed for life ball bearings
- Suitable for loft applications only
- Integral Hours Run Meter (as standard)
- Integral intelligent comfort heater (as standard)
- Remote control boost facility as standard on PIV L3
- Provides all year round quality filtered air
- Reduces/eliminates surface condensation
- Quiet operation
- Removes musty odours
- Enhances heat distribution
- Takes advantage of the benefits of solar gain in the loft space
- Benefits asthma sufferers by reducing dust mites and mould spores
- Reduces Radon levels
Product Codes
TP230 - Titon PIV L (up to 2 floors).
TP231 - Titon PIV L3 (up to 3 floors) with fire rated diffuser and remote control.

Guarantee period: 5 years

Applications
Situated in a loft space, the unit delivers air to the central hallway or landing via a diffuser to maximise efficiency of airflow and aid in heat recovery from ceiling level. This provides displacement ventilation in order to improve air quality and resolve condensation related problems.

Accreditations
This product is in conformity with the European Low Voltage Directive 2014/35/EU and the EMC Directive 2014/30/EU including amendments. Full compliance with the relevant parts of the standards listed below supports the conformity of the designated product with the provisions of the above mentioned EC Directives.

Specification
Construction: ABS plastic to contain at least 50% recycled material.
Motor: Incorporates the Ultra Low Watt DC motor technology with sealed for life ball bearings designed to operate continuously at a pre-set ‘background’ rate.
Fan: 140 x 220mm centre mounted forward curved centrifugal fan.
Filter: Is a synthetic fibre based filter mat to ISO Coarse 60% (G4) standard in accordance with EN779 standard ratings, conforming to all European Union and US fire classification standards (e.g. DIN 53438-F1 and UL900-class 2) and be self-extinguishing.

Servicing/Maintenance
Achieved by exchanging filters and consumable items. There should be no requirement for any maintenance within the five year period.

Accessories:
Integral ‘Intelligent Low Temperature’ Comfort Heater
Powered by a single supply and capable of holding incoming air temperatures accurately – around 10°C. The integral heater element is manufactured in a solid tubular sheath material and not in open wire format.

Intelligent Remote Control (L3 unit only)
A remote control incorporating five mode settings: small, medium, high, boost and auto is available. Auto-mode enables or disables the heater.

TP230 - Titon PIV L (up to 2 floors)
TP231 - Titon PIV L3 (up to 3 floors)
with fire diffuser and remote control
Performance Data

PIV L - (TP230)

Performance curve results are based on the unit running below 19°C and exclude accessories.

Power and Sound Levels

<table>
<thead>
<tr>
<th>Product</th>
<th>Incoming Air Temp. (°C)</th>
<th>Fan Speed Setting</th>
<th>Airflow (l/s)</th>
<th>Power Usage (W)</th>
<th>Specific Fan Power (SFP)</th>
<th>Outlet Noise 0dB(A) @3m</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIV L</td>
<td>&lt;19</td>
<td>Small</td>
<td>21</td>
<td>4</td>
<td>0.17</td>
<td>&lt;15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium</td>
<td>29</td>
<td>4</td>
<td>0.15</td>
<td>&lt;15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Large</td>
<td>38</td>
<td>6</td>
<td>0.16</td>
<td>&lt;15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boost</td>
<td>49</td>
<td>9</td>
<td>0.19</td>
<td>15</td>
</tr>
<tr>
<td>PIV L3</td>
<td>&lt;19</td>
<td>Small</td>
<td>20</td>
<td>3</td>
<td>0.13</td>
<td>&lt;15</td>
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<td></td>
<td></td>
<td>Medium</td>
<td>27</td>
<td>3</td>
<td>0.13</td>
<td>&lt;15</td>
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<tr>
<td></td>
<td></td>
<td>Large</td>
<td>34</td>
<td>5</td>
<td>0.14</td>
<td>&lt;15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boost</td>
<td>53</td>
<td>13</td>
<td>0.25</td>
<td>15</td>
</tr>
</tbody>
</table>

Please note that the power figures represent normal running and do not include the heater.
Weight 8kg. Dimensions in mm
Extract Fans

System 1

Products in this section assist in offering compliance with Building Regulations (England & Wales) System 4

Where can it be used?
System 1 is suitable for use in houses and many flats or apartments with multi façades. In some circumstances, it can be difficult to comply with System 1, especially in dwellings with a single façade. For new build or refurbishment.

How does it work?
The System consists of background ventilators, usually trickle ventilators fitted to windows and extract fans fitted in moisture producing areas or “wet rooms”, such as kitchens and bathrooms.

The background ventilators provide the whole building ventilation and also supply air to the intermittently operated extract fans which provide the extract ventilation removing odours and excessive humidity.

Axial fans – for window, ceiling or wall applications with short duct runs (up to 1.5m in length).

Centrifugal fans – for ceiling and wall applications where longer and more complex duct runs are required or where lower noise levels are desirable.

Inline fans – for discreet applications where the fan can be located out of sight within a cupboard or roof space, using ducting to connect to a ceiling mounted room extract terminal and to the outside.

All fan types are available with a number of control options (see product selector) and include Safety Extra Low Voltage (SELV) IPX4 rated versions for safe use in bathrooms or wet areas.
Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
For use in residential dwellings

Titon’s Purge ventilation unit has been designed to satisfy the Building Regulations Part F 2010 requirement for purging as set out in *Appendix B. It allows the rapid removal of stale, odorous and poor quality air from the dwelling allowing a healthier more comfortable environment to be reinstated.

Our Purge unit can be used in an independent purge system in its own right or integrated into our own HRV Q Plus MVHR system to provide additional dedicated purge ventilation.

Purge ventilation can also be used to improve thermal comfort.

*Manually controlled intermittent ventilation of rooms or spaces at a relatively high rate to rapidly dilute high concentrations of pollutants and/or water vapour from occasional activities, equivalent to 4 air changes an hour.

Features & Benefits

- Low Profile
- High efficiency EC fan
- 100% variable speed control for commissioning set point
- 90° configurable option
- Accepts configurations of 220x90mm rectangular ducting and Ø150mm or 220x90mm with adaptor for 90° option
- For use in rooms up to 45m²
- In line configurable option
- Simple 1 setting setup
- Light weight for easy handling
- Easy and quick to install
- Low sound levels
- IPX2 water resistant

Ceiling cover kit available
Powered Damper Actuator
Product Codes
TP625 - Purge Unit
TP629 - Ø150 Back Draft Damper
TP630 - Powered Damper Actuator
TP631 - Ceiling Cover Kit (Ø150 only)

Standards
EU RoHS Directive Compliant.
CE Marked.

Specification
Dimensions: 510mm long x 300mm Wide x 150mm Deep
Weight: 7.2Kg
Finish: Natural Zintec
Materials: Zintec sheet steel casing
Guarantee Period: 2 Years
Electrical: 230V - 50/60Hz, 3A fuse
Maintenance: Service subject to local environment - see product manual.

Drawing and Dimensions
Purge Ventilation Unit

UNITs Supplied with Blanking Plates fitted in both positions, remove desired blanking plate and fit applicable Ø150 or 220x90 adaptor. (Supplied with unit)

Powered Damper Actuator

Dimensions in mm
For use in residential or non-residential applications

The new Mixed Flow inline fan from Titon is a high performance fan with 3 speeds. It is suitable for bathrooms, kitchens and general extract applications.

It is easily installed and maintained; ideal for removing internal condensation, eliminating condensation and mould growth within the home.

With high pressure and low noise levels, it allows Titon’s Mixed Flow fan to work effectively in the home, causing less intrusion into daily life whilst helping ventilate to an sufficient level.

Features & Benefits

→ Ideal for kitchen, bathroom, utility and general extract applications
→ The powerful in-duct mounted mixed flow fan has been designed to produce higher working pressures for applications that require high airflows
→ High quality ball bearing motors
→ 3 speed operation (hard wired)
→ Ingress protection to IP55
→ Max operating temperature 50°C
→ Overrun timer
→ Protection Class II
Product Codes
TP220T - Ø100mm
TP221T - Ø125mm
TP222T - Ø150mm
TP223T - Ø160mm

Standards
Conforms to requirements of EC council directives
Relating to Electromagnetic Compatibility and
Electrical Safety: EN60335-1, EN60335-2-80, EN55014-1,
EN55014-2, EN61000-3-2, EN61000-3-3
CE Marked.

Specification
Materials: Black plastic
Guarantee Period: 1 year
Electrical: 230V - 50/60Hz, 3A fuse

<table>
<thead>
<tr>
<th>Product Size</th>
<th>Product Code</th>
<th>Power Rating 220-240V, 3A fuse</th>
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<tr>
<td>Ø100</td>
<td>TP220T</td>
<td>30W, 38W</td>
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<tr>
<td>Ø125</td>
<td>TP221T</td>
<td>30W, 38W</td>
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<tr>
<td>Ø150</td>
<td>TP222T</td>
<td>60W, 84W</td>
</tr>
<tr>
<td>Ø160</td>
<td>TP223T</td>
<td>60W, 84W</td>
</tr>
</tbody>
</table>

Maintenance: Service subject to local environment - see product manual.

Performance Details
100mm - inline mixed flow fan

<table>
<thead>
<tr>
<th>Volume Flow</th>
<th>Pressure (Pa)</th>
</tr>
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<tbody>
<tr>
<td>m3/h</td>
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</table>

125mm - inline mixed flow fan

<table>
<thead>
<tr>
<th>Volume Flow</th>
<th>Pressure (Pa)</th>
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</thead>
<tbody>
<tr>
<td>m3/h</td>
<td></td>
</tr>
</tbody>
</table>

150/160mm - inline mixed flow fan

<table>
<thead>
<tr>
<th>Volume Flow</th>
<th>Pressure (Pa)</th>
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</thead>
<tbody>
<tr>
<td>m3/h</td>
<td></td>
</tr>
</tbody>
</table>

Drawing & Dimensions

<table>
<thead>
<tr>
<th>Product Size</th>
<th>Product Code</th>
<th>ØA</th>
<th>ØB</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G (CRS)</th>
<th>H (CRS)</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>TP220T</td>
<td>98</td>
<td>173</td>
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<td>TP221T</td>
<td>123</td>
<td>173</td>
<td>111</td>
<td>269</td>
<td>100</td>
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<tr>
<td>Ø150</td>
<td>TP222T</td>
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<td>110</td>
<td>231</td>
<td>136</td>
<td>214</td>
<td>3.1</td>
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</tbody>
</table>

Dimensions in mm
Features & Benefits

- IPX4 protection degree
- Aesthetic front flat cover for modern interior design easily removed for cleaning
- Rigid optimised spigot support preventing distortion with strengthened guard and design to maximise airflow
- Integral back-draught shutter fitted as standard to prevent air flowing back into the room when the fan is off
- Low power consumption: 100mm model has less than 8 watts operating power consumption for energy saving
- Totally recyclable plastic components, environmentally friendly
- Double insulated: no earth connection is required
- Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency
- Electrical supply 220-240 V ~ 50-60Hz

For use in residential or non-residential applications

Ideal for air-extraction in bathroom, toilet and kitchens. Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling and window mounted.

Versions

Run-on timer - The fan is equipped with a timer circuit adjustable from ± 1' to 25'. Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat-timer - The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from ± 1' to 25'. Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

For use with Titon Trickle Ventilators - see page 102.
Product Codes

TP241HT - TIFA100HT
Intermittent Fan Axial Ø100mm, Humidity and Timer

TP242T - TIFA120T
Intermittent Fan Axial Ø120mm, Run-on Timer

TP243T - TIFA150T
Intermittent Fan Axial Ø150mm, Run-on Timer

Standards
Design and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

Air performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 Kg/m³, CE marked.

Specification
Finish: White gloss RAL 9010, UV resistant

Materials: Shock-proof ABS casing

Guarantee period: 2 years (parts only)

Electrical: 220-240 V ~ 50Hz

Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

Maintenance: Service, clean, replace subject to local environment - see product manual.

Performance Details

<table>
<thead>
<tr>
<th>Model</th>
<th>Airflow m³/h</th>
<th>Airflow l/s</th>
<th>Static pressure Pa max</th>
<th>Max power (W)</th>
<th>Sound pressure dB(A) @ 3m</th>
<th>Max ambient temp °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIFA100HT</td>
<td>75</td>
<td>21</td>
<td>24</td>
<td>8</td>
<td>26</td>
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<tr>
<td>TIFA120T</td>
<td>130</td>
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<td>37</td>
<td>14</td>
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<tr>
<td>TIFA150T</td>
<td>212</td>
<td>59</td>
<td>48</td>
<td>24</td>
<td>42</td>
<td>50</td>
</tr>
</tbody>
</table>

Ceiling IPX4 Kit

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installations.

Drawing & Dimensions

![Diagram of product dimensions]
For use in residential or non-residential applications

Ideal for air-extraction in bathroom and small premises. A powerful extract fan, designed to overcome the resistances of long ducting systems. Units can be wall/panel and ceiling mounted; designed for surface or flush (plasterboard) installation.

Version

Humidistat & timer - The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from ±1' to 25'. Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

Features & Benefits

- IPX4 protection degree
- Aesthetic front flat cover for modern interior design easily removed for cleaning
- Removable filter in PP to protect the impeller and the motor. Easy to be removed for cleaning
- Integral back-draught shutter to prevent air flowing back into the room when the fan is off
- Improved performance thanks to the unique air straightener to optimise performance and reduce power consumption
- Totally recyclable plastic components, environmentally friendly
- Double insulated: no earth connection is required
- Forward curved centrifugal impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.
- Electrical supply 220-240 V ~ 50-60Hz

For use with Titon Trickle Ventilators - see page 102.
**Product Codes**

TP251HT - TIFC100HT  
Intermittent Fan Centrifugal Ø100mm,  
Humidity & Timer  

**Standards**

Designed and manufactured in accordance with  
EN60335-2-80 (Low Voltage Directive) and the  
EMC Directive (Electromagnetic Compatibility).  
Air performance measured according to ISO 5801  
at 230V 50Hz, air density 1.2 Kg/m³. CE marked.  

**Specification**

**Finish:** White gloss RAL 9010, UV resistant  
**Materials:** Shock-proof ABS casing  
**Weight:** 1.87 Kg  
**Guarantee period:** 2 years (parts only)  
**Electrical:** 220-240 V ~ 50Hz  
**Installation:** Install in accordance with  
regulatory requirements, such as the Domestic  
Ventilation Compliance Guide (England & Wales)  
and the Residential Ventilation Association  
recommendations.  
**Maintenance:** Service, clean, replace subject to  
local environment - see product manual.  

**Ceiling IPX4 Kit**

![Diagram of Ceiling IPX4 Kit]

<table>
<thead>
<tr>
<th>Model</th>
<th>TP208/ Ø100</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>255</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
</tr>
</tbody>
</table>

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installations.  

**Performance Details**

![Graph showing Performance Details]

<table>
<thead>
<tr>
<th>Model</th>
<th>Airflow m³/h max</th>
<th>Airflow l/s</th>
<th>Static pressure Pa max</th>
<th>Max power (W)</th>
<th>Sound pressure dB(A) @ 3m</th>
<th>Max ambient temp °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIFC100HT</td>
<td>97/61</td>
<td>27/17</td>
<td>235/146</td>
<td>28/17</td>
<td>38/27</td>
<td>50</td>
</tr>
</tbody>
</table>
Vent-Trex is a unique combined overhead extract fan and trickle ventilator for kitchens and bathrooms that fits within the aperture on top of the window frame.

Vent-Trex is ideal for refurbishment situations where wall penetration is undesirable, as it does not damage the fabric of the building or where external aesthetics need to be preserved.

It provides a trickle ventilation performance Equivalent Area (EA) of 2500mm² minimum and extract ventilation rates to suit either kitchens or bathrooms.

**Features & Benefits**

- Unique combined extract fan/trickle ventilator
- Suitable for all window types
- Integral with window, ideal for refurbishment situations
- Avoids damage or penetration of building fabric
- Easy to install
- Saves wall space
- Low installation costs compared to traditional extract ventilators
- Bathroom version – single speed (15 l/s)
- Kitchen version – two speed (60 l/s and 30 l/s)
- 2500mm² EA minimum
- Low energy usage
- Easy to clean
- Easy to maintain
- IP24 rating
- Pull cord switch and power light (dependant on model)
- Humidistat option available (integral or remote)
- Available with remote PSU (SELV) option for bathrooms
- Continuous power or continuous running versions
- Variable speed version
- Suitable for use in conservation areas
- 2-year guarantee
Details

Configurations
Handing – pull cord and cable entry can be either on the left or right side (viewed from inside the property).
Flex entry to the unit can be either from the front or the end.

Optional Extras
Units can be supplied with or without external mesh.
Units can be supplied as permanent ventilators, i.e. no slide (Not available for cord control units).

Definitions
Remote PSU
To provide extra low voltage capability for use in bathrooms SELV.

Standard
Pull cord or ceiling switch must be pulled to switch unit on and to allow humidity sensing to operate.

Continuous Power
Pull cord or ceiling switch manually operates the fan, unit will always respond to humidity change.

Continuous Running
Fan will run at low speed continuously and increase to the higher speed on pulling the pull cord.

Cord Control
The unit has two pull cords one each side. One to open the slide, one to close the slide. Also switching the unit on & off.

Variable Speed
Variable boost speed – used to reduce fan boost speeds in conjunction with open flued appliances, to avoid fumes being pulled back into property. (integral potentiometer adjustment).

Humidistat
Measures a change in humidity to trigger the fan to run or increase in speed.

Ceiling Switch
Momentary switch (M) – using pull cord to break contacts. Latching switch (L) using normally open and common contacts. Fitting, wiring and operation instructions are available, please contact Titon Technical Dept.

Performance
Equivalent Area (EA) – 2500mm² (minimum)
Free Area (mm²) – Bathroom model:
  Integral PSU (length 520-2500mm): 5280mm² min
  Remote PSU (length 405-2500mm): 5280mm² min
Kitchen model: Length 880-2500mm: 9000mm²

Details
230V AC Voltage / Power Consumption (standard version)
12V Bathroom – 3.95W @ 15 l/s (540mm length) (Integral PSU)
24V Kitchen – 21W @ 60 l/s (1200mm length) (Integral PSU)
Motor protection: IP24 Rating CE marked according to LVD and EMC directives

Finishes
White finish as standard to RAL 9010. Can be supplied in different colours. External canopy and internal fan can be coloured independently. Details available on request.
Trickle Ventilators

Products in this section offer compliance with Building Regulations (England & Wales) System 1, 2 or 3
Trickle Ventilators (Window or Wall)

- Window Ventilators 102
- Slot Ventilators 102
- AirLiner 104
- AirCore 106

Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
Trickle ventilator range

Titon’s range of window trickle ventilators includes improved designs which assist in compliance with Ventilation Regulations in England & Wales. Aluminium or PVCu models are available which offer increased ventilation that other ventilator manufacturers cannot match. This makes both the specifier and the window fabricators’ jobs easier. The specifier can pick Titon products to ensure compliance for a choice of ventilation systems in different dwelling types, without constant specification change. The fabricator is safe in the knowledge that only the minimum number of ventilators required need to be used to achieve this compliance.

Need products to work with different ventilation systems?

What’s more, specification is simple. The EA (Equivalent Area) is marked on each product for easy reference and vent and canopy or grille combinations have been tested in accordance with BS EN 13141:2004. The wide choice outlined in this brochure means compliance is possible when used with other products from Titon’s mechanical ventilation range:

- **System 1** - Extract fans
- **System 3** - Continuous mechanical ventilation systems
- **System 4** - Continuous mechanical supply and extract with heat recovery

Please phone for available colours/finishes.

Remote Control option available on some of Titon’s slot ventilator range.

For full product dimensions and fixing information, please visit www.titon.com and navigate to the relevant product’s documentation page.

Thanks to our engineering expertise, the Trimvent® Select Xtra gives optimum airflow (and therefore Equivalent Area) utilising existing slot sizes. Specifically developed for Part F of the Building Regulations, Ventilation (England & Wales), and to improve performance for requirements throughout rest of the UK and Europe.

The Select Xtra is available in sizes suitable for both new build or replacement situations:

- No need to alter overall window designs to accommodate more vents or find additional vent locations. Select Xtra will do the job
- Improved opening gives optimum Equivalent Area
- Slot sizes as standard but products approximately 60% more efficient for airflow
- Based on extremely successful Trimvent® Select principle

Trimvent® Select Xtra S13

**XS13 Ventilator & XC13 Canopy**

For use on PVCu, timber or aluminium windows. Clip fix version available.

- Equivalent Area (mm²): 4400, 5000 (clip fix 4000, 5000)
- Free Area (mm²): 4106 (XS) and 4804 (XC), 5080 (XS) and 6055 (XC)
- Product Length: 411, 497
- Overall Slot Size: 367, 450 x 13
Trimvent® Select Xtra S16

XS16 Ventilator & XC16 Canopy
For use on PVCu or timber windows.
- Equivalent Area (mm²): 4600
- Free Area (mm²): 4507 (XS) and 4990 (XC)
- Product Length: 366
- Overall Slot Size: 312 x 16

Trimvent® Select Xtra R16

XR16 Ventilator & XHD16 Grille (or XC16 Canopy)
For use on timber windows.
- Equivalent Area (mm²): 4600
- Free Area (mm²): 4523 (XR) and 4608 (XHD)
- Product Length: 351
- Overall Slot Size: 352 x 16 (with 22 recess)

Trimvent® Select S13

S13 Ventilator & C13 Canopy
For use on PVCu, timber or aluminium windows. Clip fix version available.
- Equivalent Area (mm²): 1700, 2700
- Free Area (mm²): 2000, 4000
- Product Length: 267, 412
- Overall Slot Size: 223, 367 x 13

Trimvent® Select E18

E18 Ventilator & GS18 Grille
For use on PVCu overhead window sections.
- Equivalent Area (mm²): 4200
- Free Area (mm²): 4000
- Product Length: 372 (E18) and 424 (GS18)
- Overall Slot Size: 366 (E18) and 408 (GS18) x 18

SF Xtra

SF Xtra Ventilator & SF Canopy
For use on PVCu, aluminium and Timber windows. Also available in bar length.
- Equivalent Area (mm²): 2500, 4000, 4400, 5000, 6000
- Free Area (mm²): 3000, 4000, 5000, 6000
- Product Length: 253, 294, 374, 400, 420, 434, 465, 529
- Overall Slot Size: (Length; see Product Fixing Instructions) x 13 or 16

SF Xtra Sound Attenuator

SF Xtra SA Vent & SF SA Canopy
For use on PVCu, timber or aluminium windows.
- Equivalent Area (mm²): 2500, 5000
- Free Area (mm²): 3470, 5517
- Product length: 464, 523
- Overall Slot Size: 367 x 13 and 438 x 13
- Various combinations available to provide different levels of sound attenuation from $D_{n,e,w}\ (C;Ctr) = 32\ (1;1)\ dB$ through to $D_{n,e,w}\ (C;Ctr) = 44\ (-2;-3)\ dB$
For use fitted through walls

AirLiner is a rectangular acoustic (sound attenuating) air brick suitable for new build situations providing up to 10,500mm² EA.

AirLiner is available with a range of cowls and louvres or an internal hit & miss style ventilator and is available in white, buff/sand or terracotta moulded plastic finish.

Features & Benefits

- Acoustic (sound attenuating) telescopic cavity liner
- Cowl and Louvre (fixed) or Hit and Miss (adjustable) ventilator available in sets
- Baffle reduces sound, light and draughts
- Contains 3 unique acoustic panels
- Telescopic sleeve extends to suit opening. ‘9 x 6’ Liner extends from 250 to 404mm (air brick fitted), ‘9 x 3’ Liner extends from 250 to 368mm (air brick fitted)
- No special fixing required, Air Brick inserted into opening
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome.

Manufactured from

Liner – polypropylene with absorbent foam panels
Multifix® Air Brick (MFAB) – UV stabilised polypropylene,
Cowl, Louvre, Hit & Miss Ventilator – UV stabilised high impact polystyrene.

Standards

Measurement of airborne sound insulation was made in accordance with BS EN 20140-10: 1992.
Single number quantities were calculated in accordance with BS EN ISO 717-1:1997.
Equivalent area tested to BS EN 13141-1:2004 and independently verified by the BRE.
Also refer to: The Building Regulations 2000, Approved Document F.
The Building (Scotland) Regulations, Mandatory Standard 3.14.
The Building Regulations (Northern Ireland) 2000, Technical Booklet K.
British Standard BS 5250.
**Details**

<table>
<thead>
<tr>
<th>Order and Specification Code</th>
<th>Main Uses, Features and Benefits</th>
<th>Size</th>
<th>Equivalent Area</th>
<th>Colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAL4H&amp;M</td>
<td>• Controllable air vent for background room ventilation</td>
<td>AirLiner: Extends from 250-368mm L with air brick fitted</td>
<td>6300mm²/63cm²</td>
<td>Air Brick: Terracotta, buff/sand, grey, blue/black, black, brown Hit &amp; Miss: Magnolia (may be decorated)</td>
</tr>
<tr>
<td></td>
<td>• Acoustic lining reduces sound by 38 dB with internal grille fully open and 39 dB when closed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Internal baffle reduces light and draughts</td>
<td>Hit &amp; Miss: 271mm L x 95mm H</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Internal hit &amp; miss grille manually adjusted with an easy sliding action giving control over air flow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• External baffles prevent cross cavity water transfer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Internal and external grilles U.V. stabilised</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• New higher equivalent area confirmed by the BRE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Acoustic performance tests by BRE Acoustics.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TALH&amp;M</td>
<td>• Controllable air vent for background room ventilation</td>
<td>AirLiner: Extends from 250-404mm L with air brick fitted</td>
<td>10500mm²/105cm²</td>
<td>Air Brick: Terracotta, buff/sand, grey, blue/black, black, brown Hit &amp; Miss: White</td>
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<tr>
<td>TAL4HMCWL</td>
<td>• Acoustic lining reduces sound by 39 dB with internal grille fully open and 40 dB when closed</td>
<td>Cowl: 255mm L x 96mm H x 44mm D</td>
<td>6300mm²/63cm²</td>
<td>Cowl &amp; Air Brick: Terracotta, buff/sand Hit &amp; Miss: White</td>
</tr>
<tr>
<td></td>
<td>• Cowl and internal baffle reduces light and draughts</td>
<td>AirLiner: Extends from 250-368mm L with air brick fitted</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Internal hit &amp; miss grille manually adjusted with an easy sliding action giving control over air flow</td>
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</tr>
<tr>
<td></td>
<td>• External baffles prevent cross cavity water transfer</td>
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<td></td>
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<tr>
<td></td>
<td>• Cowl and grilles U.V. stabilised</td>
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<td>• New higher equivalent area confirmed by the BRE</td>
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<td></td>
<td>• Acoustic performance tests by BRE Acoustics.</td>
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<tr>
<td>TALHMCW</td>
<td>• Controllable air vent for background room ventilation</td>
<td>Cowl: 255mm L x 154mm H x 74mm D</td>
<td>9800mm²/98cm²</td>
<td>Cowl &amp; Air Brick: Terracotta, buff/sand Hit &amp; Miss: White</td>
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<tr>
<td></td>
<td>• Acoustic lining reduces sound by 42 dB Dn,e,w with internal grille fully open or closed</td>
<td>AirLiner: Extends from 250-404mm L with air brick fitted</td>
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<tr>
<td></td>
<td>• Cowl and internal baffles reduce light and draughts</td>
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<tr>
<td></td>
<td>• Internal hit &amp; miss grille manually adjusted with an easy sliding action giving control over air flow</td>
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<tr>
<td></td>
<td>• External baffles prevent cross cavity water transfer</td>
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</tr>
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<td></td>
<td>• Cowl and grilles U.V. stabilised</td>
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<td></td>
<td>• New higher equivalent area confirmed by the BRE</td>
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</tr>
<tr>
<td></td>
<td>• Acoustic performance tests by BRE Acoustics.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Drawing and Dimensions**

**TALH&M/TALHMCW**

- 230mm~348mm (including 5mm overlap)
- Adjustable Extension: 19mm L (plus 5mm for overlap)
- 220mm

**TAL4H&M/TAL4HMCWL**

- 230mm L
- Adjustable Extension: 19mm L (plus 5mm for overlap)
- 266mm
The new LookRyt AirCore is a permanent circular super acoustic (sound attenuating) wall ventilator suitable for new build and refurbishment situations.

This super acoustic ventilator can provide soundproofing up to 50 dB (D_{ei,w}) and up to 8500mm² EA. LookRyt AirCore is available with a range of cowls and louvres and is available in white, buff/sand or terracotta moulded plastic finish.

**Features & Benefits**

- Controllable air vent for background room ventilation
- Core drilled - suitable for retrofit installations
- Unique internal LookRyt panel disperses air evenly and may be painted or wallpapered to match décor
- External grille U.V. stabilised
- Verifiable equivalent area confirmed by the BRE
- Injection moulded one piece tube makes handling easier and installation quicker
- Acoustic performance tests by BRE Acoustics
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome.

**Manufactured from**

Tube - High impact polystyrene with absorbent foam lining.

External and Internal louvres – UV stabilised high impact polystyrene.

Maximum length 358mm, minimum length 295mm.

**Standards**

Measurement of airborne sound insulation was made in accordance with BS EN 20140-10: 1992.

Single number quantities were calculated in accordance with BS EN ISO 717-1:1997.

Equivalent area tested to BS EN 13141-1:2004 and independently verified by the BRE.

Also refer to: The Building Regulations 2000, Approved Document F.

The Building (Scotland) Regulations, Mandatory Standard 3.14.

The Building Regulations (Northern Ireland) 2000, Technical Booklet K.

British Standard BS 5250.
### Order and Specification Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Main Uses, Features and Benefits</th>
<th>Size</th>
<th>Equivalent Area</th>
<th>Colours</th>
</tr>
</thead>
</table>
| AAC125HP     | • Controllable air vent for background room ventilation  
• Core drilled - suitable for retrofit installations  
• Acoustic lining reduces sound by 43 dB with internal panel fully open and 50 dB when closed \( D_{\text{w,c}} \)  
• Unique internal LookRyt panel disperses air evenly and may be painted or wallpapered to match décor  
• External grille U.V. stabilised  
• Verifiable equivalent area confirmed by the BRE  
• Acoustic performance tests by BRE Acoustics  
• Fixing screws for LookRyt panel provided in all set.                                                                 | Ext. Grille: 166mm L x 160mm H  
Tube: 127mm Dia. x 358mm L  
LookRyt Panel: 172mm L x 172mm H | 8500mm²  
              85cm² | Terracotta, buff/sand, white  
LookRyt Panel: Magnolia (may be decorated) |
| AAC125HPCWL  | • Controllable air vent for background room ventilation  
• Core drilled - suitable for retrofit installations  
• Acoustic lining reduces sound by 45 dB with internal panel fully open and 50 dB when closed \( D_{\text{w,c}} \)  
• External cowl reduces light and draughts  
• Unique internal LookRyt panel disperses air evenly and may be painted or wallpapered to match décor  
• External cowl and grille U.V. stabilised  
• Verifiable equivalent area confirmed by the BRE  
• Acoustic performance tests by BRE Acoustics.                                                                 | Cowl: 217mm L x 210mm H x 93mm D  
Tube: 127mm Dia. x 358mm L | 8400mm²  
              84cm² | Terracotta, buff/sand, white  
LookRyt Panel: Magnolia (may be decorated) |
| AAH125HP     | • Controllable air vent for background room ventilation  
• Core drilled - suitable for retrofit installations  
• Fitted from the inside for high rise constructions  
• Acoustic lining reduces sound by 44 dB with internal panel fully open and 50 dB when closed \( D_{\text{w,c}} \)  
• Unique internal LookRyt panel disperses air evenly and may be painted or wallpapered to match décor  
• External grille U.V. stabilised  
• Verifiable equivalent area confirmed by the BRE  
• Acoustic performance tests by BRE Acoustics.                                                                 | Tube: 127mm Dia. x 358mm L  
LookRyt Panel: 172mm L x 172mm H | 7700mm²  
              77cm² | Terracotta, buff/sand, white  
LookRyt Panel: Magnolia (may be decorated) |
Ducting and Accessories

This section shows the products available to complete a domestic ventilation system, including ducting and items to assist with maintenance, such as filters. If you cannot find the exact product you require, please contact us to find out whether it can be obtained for you. Titon has also developed some products specifically to improve the efficiencies of the specifier and contractor when installing systems and the householder and/or landlord when running and maintaining their system.

Ducting and Terminals

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.
Please check www.titon.com for fully up-to-date information, as additions and amendments to the product range are made on an ongoing basis due to changing market demands.
# 100mm - Round Ducting

<table>
<thead>
<tr>
<th>Ø100mm PVC</th>
<th>Product Code</th>
<th>Free Area = 7,855mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Components</td>
<td>8 l/s</td>
</tr>
<tr>
<td>8960097</td>
<td>Round Duct - 350mm Long</td>
<td></td>
<td>0.1</td>
</tr>
<tr>
<td>8960110</td>
<td>Round Duct - 1.0m Long</td>
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</tr>
<tr>
<td>8960140</td>
<td>Round Duct - 1.5m Long</td>
<td></td>
<td>0.2</td>
</tr>
<tr>
<td>ENQ</td>
<td>Round Duct - 2m Long</td>
<td></td>
<td>0.2</td>
</tr>
<tr>
<td>8960142</td>
<td>90° Bend</td>
<td></td>
<td>1.6</td>
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<tr>
<td>8960143</td>
<td>45° Bend</td>
<td></td>
<td>0.6</td>
</tr>
<tr>
<td>8960144</td>
<td>Tee Piece</td>
<td></td>
<td>n/a</td>
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<tr>
<td>8960031</td>
<td>Duct Connector</td>
<td></td>
<td>0.3</td>
</tr>
<tr>
<td>8960145</td>
<td>Duct Connector with Backdraught Damper</td>
<td></td>
<td>7.1</td>
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<tr>
<td>8960146</td>
<td>Fixing Bracket</td>
<td></td>
<td>n/a</td>
</tr>
<tr>
<td>8960188</td>
<td>Jubilee Clip - 55mm to 170mm</td>
<td></td>
<td>n/a</td>
</tr>
<tr>
<td>*8960147</td>
<td>Ceiling Plastic Vent Diffuser - Universal</td>
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<td>6.2</td>
</tr>
<tr>
<td>*8960227</td>
<td>Ceiling Metal Vent Diffuser - Extract</td>
<td></td>
<td>5.0</td>
</tr>
<tr>
<td>*8960229</td>
<td>Ceiling Metal Vent Diffuser - Supply</td>
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<td>6.2</td>
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</table>

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Terminations</th>
<th>Free Area = 7,855mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8960105</td>
<td>External Louvred Grille (Free Area; 3,809mm²) - White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8960102</td>
<td>External Louvred Grille (Free Area; 3,809mm²) - Brown</td>
<td>1.7</td>
<td>6.0</td>
</tr>
<tr>
<td>8960104</td>
<td>External Louvred Grille (Free Area; 3,809mm²) - Terracotta</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8960103</td>
<td>External Louvred Grille (Free Area; 3,809mm²) - Beige</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8960107</td>
<td>External Cowled Grille (Free Area; 7,200mm²) - White (With non-return flap)</td>
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<tr>
<td>8960106</td>
<td>External Cowled Grille (Free Area; 7,200mm²) - Brown (With non-return flap)</td>
<td>1.3</td>
<td>4.7</td>
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<tr>
<td>8960239</td>
<td>External Cowled Grille (Free Area; 7,200mm²) - Terracotta (With non-return flap)</td>
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<tr>
<td>8960223</td>
<td>External High-Rise Grille (Free Area; 6,499mm²) - White</td>
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<tr>
<td>8960222</td>
<td>External High-Rise Grille (Free Area; 6,499mm²) - Brown</td>
<td>0.0</td>
<td>0.1</td>
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<tr>
<td>8960112</td>
<td>External Round Grille (Free Area; 4,007mm²) - with fly screen</td>
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<tr>
<td>8960079</td>
<td>External Mushroom Cowl</td>
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</table>

*Pressure losses with control disc 10mm open.
# 100mm - Round Ducting

<table>
<thead>
<tr>
<th>Ø100mm PVC</th>
<th>Product Code</th>
<th>Free Area = 7,855mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Components</td>
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</tr>
<tr>
<td></td>
<td>8960062</td>
<td>Round – 1m length</td>
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<tr>
<td></td>
<td>8960064</td>
<td>Round – 3m length</td>
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<td>8960067</td>
<td>Round – 6m length</td>
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<td></td>
<td>8960070</td>
<td>Round – 15m length</td>
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<td>8960073</td>
<td>Round – 45m length</td>
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<thead>
<tr>
<th>Product Code</th>
<th>Insulated Flexible</th>
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<th>15 l/s</th>
<th>30 l/s</th>
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<tbody>
<tr>
<td>8960052</td>
<td>Aluminium – 5m length</td>
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<tr>
<td>8960051</td>
<td>Aluminium - 10m length</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Fire Protection</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
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<tbody>
<tr>
<td>*8960228</td>
<td>Ceiling Metal Vent Diffuser - Extract with Fire Damper (Fire Rating 60 mins)</td>
<td>5.0</td>
<td>13.4</td>
<td>53.7</td>
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<tr>
<td>QRS110</td>
<td>Ø100mm Fire Sleeve (Fire Rating 120 mins)</td>
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<tr>
<td>FW100X100</td>
<td>Intumescent Wrap (Fire Rating 120 mins) to work with</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FW100X141</td>
<td>Metal Retaining Sleeve - for partition walls up to 132mm</td>
<td>n/a</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Insulation</th>
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<th>15 l/s</th>
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<tbody>
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<td>89706</td>
<td>Insulation Jacket - 25mm Thick (10m Roll)</td>
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*Pressure losses with control disc 10mm open.
## 125mm - Round Ducting

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<th>Ø125mm PVC</th>
<th>Product Code</th>
<th>Free Area = 12,273mm²</th>
<th>Static Pressure Drop (in Pa)</th>
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<td>8960114</td>
<td>Round Duct - 350mm Long</td>
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<td>8960115</td>
<td>Round Duct - 1.0m Long</td>
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<td>8960120</td>
<td>Round Duct - 1.5m Long</td>
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<tr>
<td></td>
<td>*ENQ</td>
<td>Round Duct - 2m Long</td>
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<td>8960148</td>
<td>90° Bend</td>
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<td>45° Bend</td>
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<td>Tee Piece</td>
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<td>8960184</td>
<td>Adaptor - Ø125mm to Ø100mm</td>
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<td>8960153</td>
<td>Duct Connector</td>
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<tr>
<td></td>
<td>8960151</td>
<td>Duct Connector with Backdraught Damper</td>
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<tr>
<td></td>
<td>8960251</td>
<td>Self Seal Connector - Duct to Duct</td>
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<td>8960250</td>
<td>Self Seal Connector - Duct to Fitting</td>
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<td>8960152</td>
<td>Fixing Bracket</td>
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<tr>
<td></td>
<td>8960188</td>
<td>Jubilee Clip - 55mm to 170mm</td>
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<td>*8960154</td>
<td>Ceiling Plastic Vent Diffuser - Universal</td>
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<td>*8960230</td>
<td>Ceiling Metal Vent Diffuser - Extract</td>
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<td>*8960232</td>
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<td>*9030001</td>
<td>Ceiling Plastic Vent Diffuser - Extract</td>
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<td>Ceiling Plastic Vent Diffuser - Supply</td>
<td>4.5</td>
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<td></td>
<td>8960001</td>
<td>125mm Condensate Trap Kit</td>
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<td>DU125</td>
<td>Volume Control Inline Damper</td>
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<thead>
<tr>
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<th>Terminations</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>8960119</td>
<td>External Louvred Grille (Free Area; 6,123mm²) - White</td>
<td></td>
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<tr>
<td>8960116</td>
<td>External Louvred Grille (Free Area; 6,123mm²) - Brown</td>
<td>1.3</td>
<td>4.6</td>
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<tr>
<td>8960118</td>
<td>External Louvred Grille (Free Area; 6,123mm²) - Terracotta</td>
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<tr>
<td>8960117</td>
<td>External Louvred Grille (Free Area; 6,123mm²) - Beige</td>
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<tr>
<td>8960134</td>
<td>External Cowled Grille (Free Area; 6,560mm²) - White (With non-return flap)</td>
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<tr>
<td>8960132</td>
<td>External Cowled Grille (Free Area; 6,560mm²) - Brown (With non-return flap)</td>
<td>1.5</td>
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<tr>
<td>8960133</td>
<td>External Cowled Grille (Free Area; 6,560mm²) - Terracotta (With non-return flap)</td>
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</table>

*Pressure losses with control disc 10mm open.*
## 125mm - Round Ducting

### Ø125mm PVC

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Free Area = 12,273mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Flexible PVC Duct</td>
<td>8 l/s</td>
</tr>
<tr>
<td>8960063</td>
<td>Round – 1m length</td>
<td>n/a</td>
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<tr>
<td>8960065</td>
<td>Round – 3m length</td>
<td>n/a</td>
</tr>
<tr>
<td>8960068</td>
<td>Round – 6m length</td>
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<tr>
<td>8960071</td>
<td>Round – 15m length</td>
<td>n/a</td>
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### Insulated Flexible

<table>
<thead>
<tr>
<th>Product Code</th>
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<th>15 l/s</th>
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<tbody>
<tr>
<td>8960054</td>
<td>Aluminium – 5m length</td>
<td>n/a</td>
<td></td>
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<tr>
<td>8960053</td>
<td>Aluminium – 10m length</td>
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### Fire Protection

<table>
<thead>
<tr>
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<th>Fire Protection</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
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</thead>
<tbody>
<tr>
<td>*8960231</td>
<td>Ceiling Metal Vent Diffuser - Extract with Fire Damper (Fire Rating 60 mins)</td>
<td>6.0</td>
<td>12.6</td>
<td>36.4</td>
</tr>
<tr>
<td>*8960233</td>
<td>Ceiling Metal Vent Diffuser - Supply with Fire Damper (Fire Rating 60 mins)</td>
<td>6.0</td>
<td>12.6</td>
<td>36.4</td>
</tr>
<tr>
<td>QRS130</td>
<td>Ø125mm Fire Sleeve (Fire Rating 60 mins)</td>
<td>n/a</td>
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</tr>
<tr>
<td>FSK125W</td>
<td>Intumescent Wrap &amp; Sleeve Kit - for partition walls up to 132mm (Fire Rating 120 mins)</td>
<td>n/a</td>
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</table>

### Attenuation

<table>
<thead>
<tr>
<th>Product Code</th>
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<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
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</thead>
<tbody>
<tr>
<td>CA125600</td>
<td>Galvanized Attenuator - 0.6m long (Ø235mm OD)</td>
<td>0.1</td>
<td>0.1</td>
<td>0.5</td>
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<tr>
<td>CA125900</td>
<td>Galvanized Attenuator - 0.9m long (Ø235mm OD)</td>
<td>0.1</td>
<td>0.2</td>
<td>0.7</td>
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<tr>
<td>CA1251200</td>
<td>Galvanized Attenuator - 1.2m long (Ø235mm OD)</td>
<td>0.1</td>
<td>0.3</td>
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<tr>
<td>89720</td>
<td>Flexible Silencer - 0.5m long (Ø175mm OD)</td>
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<tr>
<td>89721</td>
<td>Flexible Silencer - 1.0m long (Ø175mm OD)</td>
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### Insulation

<table>
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<tr>
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<tr>
<td>89701</td>
<td>Insulation Jacket - 25mm Thick (10m Roll)</td>
<td>n/a</td>
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<tr>
<td>8960299</td>
<td>Round Thermal Duct with connector - 1.0m Long</td>
<td>0.1</td>
<td>0.2</td>
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<tr>
<td>8960300</td>
<td>Round Thermal Duct with connector - 2.0m Long</td>
<td>0.2</td>
<td>0.5</td>
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</tr>
<tr>
<td>8960303</td>
<td>Thermal 90° Bend with connectors</td>
<td>0.4</td>
<td>1.3</td>
<td>4.9</td>
</tr>
<tr>
<td>8960304</td>
<td>Thermal 45° Bend with connectors</td>
<td>0.1</td>
<td>0.4</td>
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<tr>
<td>8960305</td>
<td>Thermal Tee Piece with connectors</td>
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<tr>
<td>8960306</td>
<td>Thermal Self Seal Connector - Duct to Duct</td>
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<td>0.2</td>
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<tr>
<td>8960307</td>
<td>Thermal Self Seal Connector - Duct to Fitting</td>
<td>0.1</td>
<td>0.2</td>
<td>0.9</td>
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</table>

*Pressure losses with control disc 10mm open.
## 150mm - Round Ducting

<table>
<thead>
<tr>
<th>Ø150mm PVC</th>
<th>Product Code</th>
<th>Free Area = 12,273mm²</th>
<th>Static Pressure Drop (in Pa)</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 l/s</td>
</tr>
<tr>
<td>8960191</td>
<td>Round Duct - 350mm Long</td>
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<td>0.4</td>
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<tr>
<td>8960192</td>
<td>Round Duct - 1.0m Long</td>
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<td>1.2</td>
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</tr>
<tr>
<td>8960193</td>
<td>Round Duct - 1.5m Long</td>
<td>0.6</td>
<td>1.8</td>
<td>4.1</td>
</tr>
<tr>
<td>ENQ</td>
<td>Round Duct - 2m Long</td>
<td>0.8</td>
<td>2.4</td>
<td>5.4</td>
</tr>
<tr>
<td>8960155</td>
<td>90° Bend</td>
<td>4.2</td>
<td>18.2</td>
<td>41.0</td>
</tr>
<tr>
<td>8960296</td>
<td>45° Bend</td>
<td>1.2</td>
<td>4.8</td>
<td>10.8</td>
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<tr>
<td>8960156</td>
<td>Tee Piece</td>
<td>n/a</td>
<td></td>
<td></td>
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<tr>
<td>8960190</td>
<td>Adaptor - Ø150mm to Ø125mm</td>
<td>2.2</td>
<td>8.8</td>
<td>19.8</td>
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<tr>
<td>8960158</td>
<td>Duct Connector</td>
<td>0.2</td>
<td>1.1</td>
<td>2.5</td>
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<tr>
<td>8960157</td>
<td>Duct Connector with Backdraught Damper</td>
<td>23.5</td>
<td>43.6</td>
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<tr>
<td>8960188</td>
<td>Jubilee Clip - 55mm to 170mm</td>
<td>n/a</td>
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<tr>
<td>*8960159</td>
<td>Ceiling Plastic Vent Diffuser - Universal</td>
<td>4.0</td>
<td>14.5</td>
<td>57.4</td>
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<tr>
<td>*8960234</td>
<td>Ceiling Metal Vent Diffuser - Extract</td>
<td>3.5</td>
<td>12.5</td>
<td>49.6</td>
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<tr>
<td>*8960235</td>
<td>Ceiling Metal Vent Diffuser - Supply</td>
<td>4.0</td>
<td>14.5</td>
<td>57.4</td>
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<tr>
<td>TP521</td>
<td>G3 Conical filter with Metal Extract Diffuser (8960234)</td>
<td>n/a</td>
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<tr>
<td>8960002</td>
<td>150mm Condensate Trap Kit</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Terminations</th>
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<th>90 l/s</th>
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<tbody>
<tr>
<td>8960130</td>
<td>External Louvred Grille (Free Area; 11,440mm²) - White</td>
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<tr>
<td>8960126</td>
<td>External Louvred Grille (Free Area; 11,440mm²) - Brown</td>
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<tr>
<td>8960129</td>
<td>External Louvred Grille (Free Area; 11,440mm²) - Terracotta</td>
<td>3.0</td>
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<tr>
<td>8960127</td>
<td>External Louvred Grille (Free Area; 11,440mm²) - Beige</td>
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<tr>
<td>8960128</td>
<td>External Louvred Grille (Free Area; 11,440mm²) - Grey</td>
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</table>

*Pressure losses with control disc 10mm open.*
### 150mm - Round Ducting

<table>
<thead>
<tr>
<th>Ø150mm PVC</th>
<th>Product Code</th>
<th>Free Area = 12,273mm²</th>
<th>Static Pressure Drop (in Pa)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Flexible PVC Duct</td>
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</tr>
<tr>
<td>8960061</td>
<td>Round – 1m length</td>
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<tr>
<td>8960066</td>
<td>Round – 3m length</td>
<td>n/a</td>
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</tr>
<tr>
<td>8960069</td>
<td>Round – 6m length</td>
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<tr>
<td>8960072</td>
<td>Round – 15m length</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Insulated Flexible</th>
<th>30 l/s</th>
<th>60 l/s</th>
<th>90 l/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>8960056</td>
<td>Aluminium – 5m length</td>
<td>n/a</td>
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<tr>
<td>8960055</td>
<td>Aluminium - 10m length</td>
<td>n/a</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Fire Protection</th>
<th>30 l/s</th>
<th>60 l/s</th>
<th>90 l/s</th>
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</thead>
<tbody>
<tr>
<td>*8960274</td>
<td>Ceiling Metal Vent Diffuser - Extract with Fire Damper (Fire Rating 60 mins)</td>
<td>3.5</td>
<td>12.5</td>
<td>49.6</td>
</tr>
<tr>
<td>*8960275</td>
<td>Ceiling Metal Vent Diffuser - Supply with Fire Damper (Fire Rating 60 mins)</td>
<td>4.0</td>
<td>14.5</td>
<td>57.4</td>
</tr>
<tr>
<td>FSK150C</td>
<td>Intumescent Fire Cuff - for partition walls up to 132mm (Fire Rating 90 mins)</td>
<td>n/a</td>
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</table>

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Attenuation</th>
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<th>60 l/s</th>
<th>90 l/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA150600</td>
<td>Galvanized Attenuator - 0.6m long (Ø270mm OD)</td>
<td>0.4</td>
<td>1.0</td>
<td>2.3</td>
</tr>
<tr>
<td>89722</td>
<td>Flexible Silencer - 0.5m long (Ø200mm OD)</td>
<td>n/a</td>
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<tr>
<td>89723</td>
<td>Flexible Silencer - 1.0m long (Ø200mm OD)</td>
<td>n/a</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Insulation</th>
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<th>90 l/s</th>
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<tbody>
<tr>
<td>89702</td>
<td>Insulation Jacket - 25mm Thick (10m Roll)</td>
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<table>
<thead>
<tr>
<th>Ø160mm PVC</th>
<th>Product Code</th>
<th>Free Area = 20,106mm²</th>
<th>Static Pressure Drop (in Pa)</th>
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<tbody>
<tr>
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<td></td>
<td>Insulation</td>
<td>30 l/s</td>
</tr>
<tr>
<td>8960327</td>
<td>Round Thermal Duct with connector - 1.0m Long</td>
<td>0.3</td>
<td>1.1</td>
</tr>
<tr>
<td>8960328</td>
<td>Round Thermal Duct with connector - 2.0m Long</td>
<td>0.5</td>
<td>2.0</td>
</tr>
<tr>
<td>8960329</td>
<td>Thermal 90° Bend with connectors</td>
<td>1.5</td>
<td>5.7</td>
</tr>
<tr>
<td>8960330</td>
<td>Thermal 45° Bend with connectors</td>
<td>0.4</td>
<td>1.6</td>
</tr>
<tr>
<td>8960331</td>
<td>Thermal Tee Piece with connectors</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>8960335</td>
<td>Thermal - Ø160mm to Ø150mm Adaptor</td>
<td>0.2</td>
<td>1.1</td>
</tr>
<tr>
<td>8960332</td>
<td>Thermal Self Seal Connector - Duct to Duct</td>
<td>0.2</td>
<td>1.1</td>
</tr>
<tr>
<td>8960333</td>
<td>Thermal Self Seal Connector - Duct to Fitting</td>
<td>0.2</td>
<td>1.1</td>
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</table>

*Pressure losses with control disc 10mm open.
## 110x54mm PVC - Rectangular Ducting

### Rectangular Ducting

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Free Area = 5,424mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Components</td>
<td>8 l/s</td>
</tr>
<tr>
<td>8960109</td>
<td>Rectangular Duct - 1.0m Long</td>
<td>0.6</td>
</tr>
<tr>
<td>8960096</td>
<td>Rectangular Duct - 1.5m Long</td>
<td>0.9</td>
</tr>
<tr>
<td>ENQ</td>
<td>Rectangular Duct - 2m Long</td>
<td>1.2</td>
</tr>
<tr>
<td>8960094</td>
<td>90° Bend - Horizontal</td>
<td>2.8</td>
</tr>
<tr>
<td>8960081</td>
<td>45° Bend - Horizontal</td>
<td>1.1</td>
</tr>
<tr>
<td>8960095</td>
<td>90° Bend - Vertical</td>
<td>4.4</td>
</tr>
<tr>
<td>8960003</td>
<td>45° Bend - Vertical</td>
<td>0.7</td>
</tr>
<tr>
<td>8960082</td>
<td>Tee Piece</td>
<td>n/a</td>
</tr>
<tr>
<td>8960091</td>
<td>Duct Connector</td>
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</tr>
<tr>
<td>8960131</td>
<td>Flexible Duct Connector</td>
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<tr>
<td>8960084</td>
<td>Fixing Bracket</td>
<td>n/a</td>
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<tr>
<td>8960108</td>
<td>110x54mm to 204x60mm Horizontal Adaptor</td>
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<tr>
<td>8960111</td>
<td>110x54mm to Ø100mm Horizontal Adaptor</td>
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</tr>
<tr>
<td>8960080</td>
<td>110x54mm to Ø100mm Horizontal Short Adaptor - Male</td>
<td>1.4</td>
</tr>
<tr>
<td>8960093</td>
<td>110x54mm to Ø100mm Vertical Adaptor - Male</td>
<td>2.3</td>
</tr>
<tr>
<td>8960092</td>
<td>110x54mm to Ø100mm Vertical Adaptor - Female</td>
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### Terminals

<table>
<thead>
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<th>Terminals</th>
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<th>30 l/s</th>
</tr>
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<tbody>
<tr>
<td>8960089</td>
<td>External Louvred Grille (Free Area; 2,600mm²) - Brown</td>
<td>4.3</td>
<td>15.0</td>
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</tr>
<tr>
<td>8960090</td>
<td>External Louvred Grille (Free Area; 2,600mm²) - Terracotta</td>
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<td></td>
</tr>
<tr>
<td>8960088</td>
<td>External Cowled Grille (Free Area; 5,800mm²) - White</td>
<td>2.4</td>
<td>8.4</td>
<td>30.4</td>
</tr>
<tr>
<td>8960085</td>
<td>External Cowled Grille (Free Area; 5,800mm²) - Brown</td>
<td>n/a</td>
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<tr>
<td>8960086</td>
<td>External Cowled Grille (Free Area; 5,800mm²) - Beige</td>
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<tr>
<td>8960087</td>
<td>External Cowled Grille (Free Area; 5,800mm²) - Terracotta</td>
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### Flexible PVC Duct

<table>
<thead>
<tr>
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<th>Flexible PVC Duct</th>
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<th>15 l/s</th>
<th>30 l/s</th>
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</thead>
<tbody>
<tr>
<td>8960074</td>
<td>Rectangular - 1m length</td>
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<tr>
<td>8960076</td>
<td>Rectangular - 3m length</td>
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### Fire Protection

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Fire Protection</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
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</thead>
<tbody>
<tr>
<td>QRS110/54</td>
<td>110x54mm Fire Sleeve (Fire Rating 120 mins)</td>
<td>n/a</td>
<td></td>
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<tr>
<td>QRS110/54SS</td>
<td>110x54mm Fire Slim Sleeve (Fire Rating 120 mins)</td>
<td>n/a</td>
<td></td>
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<tr>
<td>FW110X54X100</td>
<td>Intumescent Wrap (Fire Rating 120 mins)</td>
<td>n/a</td>
<td></td>
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</tr>
<tr>
<td>FWS110X54X141</td>
<td>Metal Retaining Sleeve - for partition walls up to 132mm</td>
<td>n/a</td>
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## 234x29mm PVC - Rectangular Ducting

<table>
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<tr>
<th>Product Code</th>
<th>Product</th>
<th>Free Area = 5,575mm²</th>
<th>Static Pressure Drop (in Pa)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Components</td>
<td>8 l/s</td>
<td>15 l/s</td>
</tr>
<tr>
<td>8960205</td>
<td>Rectangular Duct - 1.0m Long</td>
<td>1.6</td>
<td>5.5</td>
</tr>
<tr>
<td>8960197</td>
<td>90° Bend - Horizontal</td>
<td>2.9</td>
<td>10.3</td>
</tr>
<tr>
<td>8960210</td>
<td>45° Bend - Horizontal</td>
<td>2.1</td>
<td>7.5</td>
</tr>
<tr>
<td>8960209</td>
<td>90° Bend - Vertical</td>
<td>1.6</td>
<td>5.5</td>
</tr>
<tr>
<td>8960208</td>
<td>45° Bend - Vertical</td>
<td>1.7</td>
<td>6.1</td>
</tr>
<tr>
<td>8960196</td>
<td>Duct Connector</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>8960204</td>
<td>Fixing Bracket</td>
<td>n/a</td>
<td>n/a</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product</th>
<th>Free Area = 7,400mm²</th>
<th>Static Pressure Drop (in Pa)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Components</td>
<td>8 l/s</td>
<td>15 l/s</td>
</tr>
<tr>
<td>8960216</td>
<td>Rectangular Duct - 1.0m Long</td>
<td>0.8</td>
<td>2.8</td>
</tr>
<tr>
<td>8960213</td>
<td>90° Bend - Horizontal</td>
<td>1.3</td>
<td>4.6</td>
</tr>
<tr>
<td>8960220</td>
<td>45° Bend - Horizontal</td>
<td>1.3</td>
<td>4.6</td>
</tr>
<tr>
<td>8960219</td>
<td>90° Bend - Vertical</td>
<td>0.9</td>
<td>3.1</td>
</tr>
<tr>
<td>8960218</td>
<td>45° Bend - Vertical</td>
<td>1.0</td>
<td>3.6</td>
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<tr>
<td>8960212</td>
<td>Duct Connector</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>8960204</td>
<td>Fixing Bracket</td>
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## 310x29mm PVC - Rectangular Ducting

<table>
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<tr>
<th>Product Code</th>
<th>Product</th>
<th>Free Area = 7,400mm²</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Components</td>
<td>8 l/s</td>
<td>15 l/s</td>
</tr>
<tr>
<td>8960216</td>
<td>Rectangular Duct - 1.0m Long</td>
<td>0.8</td>
<td>2.8</td>
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<tr>
<td>8960213</td>
<td>90° Bend - Horizontal</td>
<td>1.3</td>
<td>4.6</td>
</tr>
<tr>
<td>8960220</td>
<td>45° Bend - Horizontal</td>
<td>1.3</td>
<td>4.6</td>
</tr>
<tr>
<td>8960219</td>
<td>90° Bend - Vertical</td>
<td>0.9</td>
<td>3.1</td>
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<tr>
<td>8960218</td>
<td>45° Bend - Vertical</td>
<td>1.0</td>
<td>3.6</td>
</tr>
<tr>
<td>8960212</td>
<td>Duct Connector</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td>8960204</td>
<td>Fixing Bracket</td>
<td>n/a</td>
<td>n/a</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product</th>
<th>Fire Protection</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
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<tbody>
<tr>
<td>FW225X25X100</td>
<td>Intumescent Wrap (Fire Rating 120 mins)</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>FWS225X25X141</td>
<td>Metal Retaining Sleeve - for partition walls up to 132mm</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>
## 204x60mm PVC - Rectangular Ducting

###产品代码| 产品名称 | 静压降（Pa）
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>8960162</td>
<td>矩形风管 - 0.5m长</td>
<td>0.1 0.3 1.0</td>
</tr>
<tr>
<td>8960163</td>
<td>矩形风管 - 1.0m长</td>
<td>0.1 0.5 2.0</td>
</tr>
<tr>
<td>8960176</td>
<td>矩形风管 - 1.5m长</td>
<td>0.2 0.8 3.0</td>
</tr>
<tr>
<td>ENQ</td>
<td>矩形风管 - 2m长</td>
<td>0.3 1.1 3.9</td>
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<tr>
<td>8960164</td>
<td>90°弯头 - 水平</td>
<td>0.5 1.8 7.5</td>
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<tr>
<td>8960172</td>
<td>45°弯头 - 水平</td>
<td>0.2 0.6 2.7</td>
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<tr>
<td>8960168</td>
<td>90°弯头 - 垂直</td>
<td>0.3 1.1 4.5</td>
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<tr>
<td>8960173</td>
<td>45°弯头 - 垂直</td>
<td>0.2 0.6 2.7</td>
</tr>
<tr>
<td>8960178</td>
<td>Tee Piece</td>
<td>n/a</td>
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<tr>
<td>8960166</td>
<td>风管连接器</td>
<td>0.0 0.1 0.3</td>
</tr>
<tr>
<td>8960252</td>
<td>自封连接器 - 风管到风管</td>
<td>0.1 0.2 0.9</td>
</tr>
<tr>
<td>8960253</td>
<td>自封连接器 - 风管到接头</td>
<td>0.1 0.2 0.9</td>
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<td>8960167</td>
<td>固定支架</td>
<td>n/a</td>
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<tr>
<td>8960006</td>
<td>跨接件</td>
<td>0.2 0.7 2.9</td>
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<td>8960169</td>
<td>204x60mm到Ø125mm水平适配器</td>
<td>0.3 1.0 3.8</td>
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<tr>
<td>8960174</td>
<td>204x60mm到Ø100mm垂直适配器</td>
<td>0.4 1.4 5.3</td>
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<td>8960165</td>
<td>204x60mm到Ø125mm垂直适配器</td>
<td>0.5 1.7 6.9</td>
</tr>
<tr>
<td>8960175</td>
<td>204x60mm到Ø150mm垂直适配器</td>
<td>0.5 1.8 7.4</td>
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<tr>
<td>8960170</td>
<td>204x60mm带内嵌Ø125mm垂直适配器</td>
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<tr>
<td>8960171</td>
<td>204x60mm带内嵌Ø150mm垂直适配器</td>
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###产品代码| 终端 | 8 l/s | 15 l/s | 30 l/s |
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<tbody>
<tr>
<td>TA350/392</td>
<td>高流量空气砖（自由面积：8,670mm²） - 白色</td>
<td>0.6</td>
<td>2.2</td>
<td>7.8</td>
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<tr>
<td>TA350/315</td>
<td>高流量空气砖（自由面积：8,670mm²） - 棕色</td>
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<tr>
<td>TA350/094</td>
<td>高流量空气砖（自由面积：8,670mm²） - 砖红色</td>
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<tr>
<td>TA350/093</td>
<td>高流量空气砖（自由面积：8,670mm²） - 米色</td>
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<tr>
<td>TA350/010</td>
<td>高流量空气砖（自由面积：8,670mm²） - 灰色</td>
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###产品代码| 终端 | 15 l/s | 30 l/s | 60 l/s |
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<tbody>
<tr>
<td>8960343</td>
<td>双面空气砖适配器带网板（自由面积：15,360mm²） - 白色</td>
<td>0.9</td>
<td>3.30</td>
<td>8.40</td>
</tr>
<tr>
<td>8960341</td>
<td>双面空气砖适配器带网板（自由面积：15,360mm²） - 棕色</td>
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<tr>
<td>8960340</td>
<td>双面空气砖适配器带网板（自由面积：15,360mm²） - 砖红色</td>
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<tr>
<td>8960344</td>
<td>双面空气砖适配器带网板（自由面积：15,360mm²） - 米色</td>
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### 204x60mm PVC - Rectangular Ducting

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Flexible PVC Duct</th>
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<th>30 l/s</th>
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<tbody>
<tr>
<td>8960075</td>
<td>Rectangular – 1m length</td>
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<tr>
<td>8960077</td>
<td>Rectangular – 3m length</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
<th>Fire Protection</th>
<th>8 l/s</th>
<th>15 l/s</th>
<th>30 l/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>QRS205/60</td>
<td>204x60mm Fire Sleeve (Fire Rating 120 mins)</td>
<td></td>
<td></td>
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<tr>
<td>QRS204/60SS</td>
<td>204x60mm Fire Slim Sleeve (Fire Rating 90 mins)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FW204X60X100</td>
<td>Intumescent Wrap (Fire Rating 120 mins) to work with</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FWS204X60X141</td>
<td>Metal Retaining Sleeve - for partition walls up to 132mm</td>
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<table>
<thead>
<tr>
<th>Product Code</th>
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<th>15 l/s</th>
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<tbody>
<tr>
<td>8960256</td>
<td>Cross-Talk Silencer - 0.5m Long (Free Area; 5,264mm²)</td>
<td>2.9</td>
<td>10.5</td>
<td>18.5</td>
</tr>
<tr>
<td>8960242</td>
<td>Cross-Talk Silencer - 1.0m Long (Free Area; 5,264mm²)</td>
<td>3.0</td>
<td>10.4</td>
<td>17.2</td>
</tr>
<tr>
<td>8960257</td>
<td>Cross-Talk Silencer - 1.5m Long (Free Area; 5,264mm²)</td>
<td>2.3</td>
<td>8.2</td>
<td>23.5</td>
</tr>
<tr>
<td>8960290</td>
<td>Hi-Flow Attenuator - 0.5m Long (Free Area; 11,664mm²)</td>
<td>0.4</td>
<td>1.5</td>
<td>7.8</td>
</tr>
<tr>
<td>8960291</td>
<td>Hi-Flow Attenuator - 1.0m Long (Free Area; 11,664mm²)</td>
<td>0.5</td>
<td>1.8</td>
<td>8.0</td>
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<tr>
<td>8960292</td>
<td>Hi-Flow Attenuator - 1.5m Long (Free Area; 11,664mm²)</td>
<td>0.6</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>89703</td>
<td>Insulation Jacket - 25mm Thick (10m Roll)</td>
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<tr>
<td>8960306</td>
<td>Rectangular Thermal Duct with connector - 1.0m Long</td>
<td>0.2</td>
<td>0.5</td>
<td>1.6</td>
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<tr>
<td>8960309</td>
<td>Rectangular Thermal Duct with connector - 2.0m Long</td>
<td>0.0</td>
<td>0.5</td>
<td>2.6</td>
</tr>
<tr>
<td>8960310</td>
<td>Thermal 90° Horizontal Bend with connectors</td>
<td>0.0</td>
<td>0.9</td>
<td>4.7</td>
</tr>
<tr>
<td>8960311</td>
<td>Thermal 45° Horizontal Bend with connectors</td>
<td>0.0</td>
<td>0.0</td>
<td>1.3</td>
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<tr>
<td>8960313</td>
<td>Thermal 90° Vertical Bend with connectors</td>
<td>0.0</td>
<td>0.6</td>
<td>3.6</td>
</tr>
<tr>
<td>8960314</td>
<td>Thermal 45° Vertical Bend with connectors</td>
<td>0.0</td>
<td>0.0</td>
<td>0.4</td>
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<tr>
<td>8960312</td>
<td>Thermal Tee Piece with connectors</td>
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<td></td>
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<tr>
<td>8960315</td>
<td>Thermal 204x60mm to Ø125mm Plenum Adaptor</td>
<td>0.5</td>
<td>2.1</td>
<td>7.9</td>
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<tr>
<td>8960316</td>
<td>Thermal Self Seal Connector - Duct to Duct</td>
<td>0.0</td>
<td>0.1</td>
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<tr>
<td>8960317</td>
<td>Thermal Self Seal Connector - Duct to Fitting</td>
<td>0.0</td>
<td>0.1</td>
<td>0.3</td>
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## 220x90mm PVC - Rectangular Ducting

<table>
<thead>
<tr>
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<th>Description</th>
<th>Free Area (in mm²)</th>
<th>Static Pressure Drop (in Pa)</th>
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<tbody>
<tr>
<td>8960012</td>
<td>Rectangular Duct - 1.0m Long</td>
<td>18,545</td>
<td>3 (30 l/s), 1.2 (60 l/s), 2.7 (90 l/s)</td>
</tr>
<tr>
<td>8960013</td>
<td>Rectangular Duct - 1.5m Long</td>
<td>18,545</td>
<td>0.4 (30 l/s), 1.7 (60 l/s), 3.8 (90 l/s)</td>
</tr>
<tr>
<td>ENQ</td>
<td>Rectangular Duct - 2m Long</td>
<td>18,545</td>
<td>0.5 (30 l/s), 2.3 (60 l/s), 4.4 (90 l/s)</td>
</tr>
<tr>
<td>8960017</td>
<td>90° Bend - Horizontal</td>
<td>18,545</td>
<td>1.8 (30 l/s), 7.3 (60 l/s), 16.4 (90 l/s)</td>
</tr>
<tr>
<td>8960019</td>
<td>45° Bend - Horizontal</td>
<td>18,545</td>
<td>0.6 (30 l/s), 2.4 (60 l/s), 5.4 (90 l/s)</td>
</tr>
<tr>
<td>8960022</td>
<td>90° Bend - Vertical</td>
<td>18,545</td>
<td>1.6 (30 l/s), 6.2 (60 l/s), 14.0 (90 l/s)</td>
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<tr>
<td>8960024</td>
<td>45° Bend - Vertical</td>
<td>18,545</td>
<td>0.5 (30 l/s), 1.9 (60 l/s), 4.3 (90 l/s)</td>
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<tr>
<td>8960020</td>
<td>Tee Piece</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>8960014</td>
<td>Duct Connector</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>8960017</td>
<td>Duct Connector Self-Seal (Duct-to-Duct)</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>8960021</td>
<td>Duct Connector Self-Seal (Duct-to-Fitting)</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>8960015</td>
<td>Fixing Bracket</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>8960025</td>
<td>220x90mm to Ø150mm Horizontal Adaptor</td>
<td>18,545</td>
<td>0.4 (30 l/s), 1.7 (60 l/s), 3.8 (90 l/s)</td>
</tr>
<tr>
<td>8960021</td>
<td>220x90mm to 204x60mm Horizontal Adaptor</td>
<td>18,545</td>
<td>3.7 (30 l/s), 14.7 (60 l/s), 33.1 (90 l/s)</td>
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<td>8960016</td>
<td>220x90mm to Ø100mm Vertical Adaptor</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>8960018</td>
<td>220x90mm to Ø125mm Vertical Adaptor</td>
<td>18,545</td>
<td>5.8 (30 l/s), 23.0 (60 l/s), 51.8 (90 l/s)</td>
</tr>
<tr>
<td>8960023</td>
<td>220x90mm to Ø150mm Vertical Adaptor</td>
<td>18,545</td>
<td>2.7 (30 l/s), 10.6 (60 l/s), 23.9 (90 l/s)</td>
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</tbody>
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### Product Code Terminations

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Terminations</th>
<th>Free Area (in mm²)</th>
<th>Static Pressure Drop (in Pa)</th>
</tr>
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<tbody>
<tr>
<td>8960011</td>
<td>Double Airbrick Adapter with Grilles (Free Area; 15,360mm²) - White</td>
<td>15,360</td>
<td>2.1 (30 l/s), 8.5 (60 l/s), 19.1 (90 l/s)</td>
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<tr>
<td>8960008</td>
<td>Double Airbrick Adapter with Grilles (Free Area; 15,360mm²) - Brown</td>
<td>15,360</td>
<td>2.1 (30 l/s), 8.5 (60 l/s), 19.1 (90 l/s)</td>
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<td>Double Airbrick Adapter with Grilles (Free Area; 15,360mm²) - Terracotta</td>
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<td>2.1 (30 l/s), 8.5 (60 l/s), 19.1 (90 l/s)</td>
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# 220x90mm PVC - Rectangular Ducting

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<tr>
<th>Product Code</th>
<th>Product Name</th>
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<th>Attenuation</th>
<th>Insulation</th>
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<td>Rectangular - 3m length</td>
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<tr>
<td>QRS220/90</td>
<td>220x90mm Fire Sleeve (Fire Rating 120 mins)</td>
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<td>QRS220/90SS</td>
<td>220x90mm Fire Slim Sleeve (Fire Rating 60 mins)</td>
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<td>FSK220X90X132W</td>
<td>Intumescent Fire Wrap Kit - for partition walls up to 132mm (Fire Rating 60 mins)</td>
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<tr>
<td>8960293</td>
<td>Hi-Flow Attenuator - 0.5m Long (Free Area; 11,664mm²)</td>
<td>2.9</td>
<td>11.7</td>
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<td>8960294</td>
<td>Hi-Flow Attenuator - 1.0m Long (Free Area; 11,664mm²)</td>
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<td>8960295</td>
<td>Hi-Flow Attenuator - 1.5m Long (Free Area; 11,664mm²)</td>
<td>4.3</td>
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<td>89704</td>
<td>Insulation Jacket - 25mm Thick (10m Roll)</td>
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<tr>
<td>8960318</td>
<td>Rectangular Thermal Duct with connector - 1.0m Long</td>
<td>0.4</td>
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<td>8960319</td>
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<tr>
<td>8960320</td>
<td>Thermal 90° Horizontal Bend with connectors</td>
<td>1.9</td>
<td>6.9</td>
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<tr>
<td>8960321</td>
<td>Thermal 45° Horizontal Bend with connectors</td>
<td>0.5</td>
<td>2.1</td>
<td>4.8</td>
</tr>
<tr>
<td>8960323</td>
<td>Thermal 90° Vertical Bend with connectors</td>
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<td>8960324</td>
<td>Thermal 45° Vertical Bend with connectors</td>
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<td>8960322</td>
<td>Thermal Tee Piece with connectors</td>
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<td>ENQ</td>
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<td>8.4</td>
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<td>0.2</td>
<td>0.8</td>
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</tbody>
</table>
Ceiling Diffuser Supply/Extract (125mm)

Features & Benefits

→ Low sound levels
→ Easy to install and adjust
→ Minimal pressure loss
→ Can be wall or ceiling mounted
→ Sleek stylish design that gives your home a truly modern look

For use with Titon’s HRV Q Plus and CME Q Plus Ranges

Titon’s residential valve is designed to be aesthetically pleasing and fit into any high specification property. It can be mounted onto a wall or ceiling and offers efficient airflow whilst maintaining a professional aesthetic design.

Quick and easy mounting by spring mechanism or mounting ring, to be fixed on both flexible and rigid ductwork. Provided with double lip seal (air tightness class D according EN 15727). Easy adjustment of volume damper. Standard finish RAL 9003, textured paint.

The ingenious architectural valve is suitable for homes as well as for offices. You can choose between a ceiling or a wall installation.

This product is not only pleasing to the eye, it combines also exceptional air technical performances at an extremely low noise level.

You can use this residential valve easily as supply or Extract, in new buildings and for renovation.

The residential diffuser consists of two parts:

• The base valve (available with mounting bracket or springs)
• The deflector plate (available in different shapes and surface finishing)

A simple screw joint couples both parts faultlessly. Each valve has a double lip seal to allow ductwork to achieve class D airtightness. Next to that a static pressure measurement can easily be done.
Known data

<table>
<thead>
<tr>
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<th>Value</th>
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<tr>
<td>supply air flow rate, $Q_v$</td>
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<tr>
<td>supply air temperature, $T_0$</td>
<td>[°C]</td>
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<tr>
<td>ambient temperature, $T_a$</td>
<td>[°C]</td>
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<tr>
<td>acoustic room attenuation, $\Delta L_r$</td>
<td>[dB(A)]</td>
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<tr>
<td>max. air velocity in occupied zone</td>
<td>[m/s]</td>
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<tr>
<td>aperture, $O$</td>
<td>[mm]</td>
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</table>

Selection from graphs

- sound power, $L_w$ | [dB(A)] | 21 |
- [NR] | 17 |
- sound pressure, $L_p$ | [dB(A)] | 13 |
- total pressure loss, $\Delta P_{tot}$ | [Pa] | 11 |
- throw, $L_{T0.2}$ | [m] | 1.3 |
- critical distance @ $\Delta T_0 = T_a - T_0$, $x_{crit}$ | [m] | 2.5 |
- temperature coefficient @ $L_{T0.2}$, $\Delta T_x/\Delta T_0$ | [-] | 0.038 |
- temperature $T_x = T_a - \Delta T_x/\Delta T_0(T_a - T_0)$ | [°C] | 23.8 |
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

The round white metal ceiling air extract valve is manufactured from white epoxy powered coated steel. The valve has a male spigot to fit inside 100/125/150mm ducting.

The extract air valve is fully adjustable and has a locking nut to fix the position of the controlled disc upon commissioning.

The valve is supplied complete with a fixing body with pre-drilled holes for installation.

The valve engages/disengages to the fixing body by a quarter turn clockwise/anticlockwise.

Product Specification

<table>
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<tr>
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<th>8960230</th>
<th>8960234</th>
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<td>150mm</td>
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<tr>
<td>Colour</td>
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<td>RAL9016</td>
<td>RAL9016</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Max</td>
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<td>+100°C</td>
</tr>
<tr>
<td></td>
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Drawing and Dimensions

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<tr>
<td>ØE</td>
<td>74</td>
<td>98.3</td>
<td>119</td>
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</tbody>
</table>

Dimensions in mm

Performance Details

Pressure loss with control disc open to 10mm
For use with Titon’s HRV Q Plus Range

The round white metal ceiling air supply valve is manufactured from white epoxy powered coated steel. The valve has a male spigot to fit inside 100/125/150mm ducting.

The supply air valve is fully adjustable and has a locking nut to fix the position of the controlled disc upon commissioning.

The valve is supplied complete with a fixing body with pre-drilled holes for installation.

The valve engages/disengages to the fixing body by a quarter turn clockwise/anticlockwise.

Product Specification

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<tr>
<th>Product Code</th>
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Dimensions in mm

Performance Details

Pressure loss with control disc open to 10mm
Ceiling Air Valve Extract - Fire Rated

For use with Titon’s HRV Q Plus and CME Q Plus Ranges

The Fire Rated Air Valve is manufactured from White Epoxy Coated Powder Coated Steel. The valve has a male spigot to fit inside a ducting 100/125/150 system depending on selection.

The extract air valve is fully adjustable and has a locking nut to fix the position of the control disc upon commissioning. It is supplied complete with fixing body and pre-drilled holes for installation.

The Fire Rated air valve incorporates an integral intumescent material and has been fire tested to BS EN 1365-2:1999 with 60 minutes rating for ceilings.

The valve engages/disengages to the fixing body by a quarter turn clockwise/anticlockwise.

**Product Specification**

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<td><strong>Max</strong></td>
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<td>+60°C</td>
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<td><strong>Min</strong></td>
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**Drawing and Dimensions**

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<td>98.3</td>
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Dimensions in mm

**Performance Details**

Pressure loss with control disc open to 10mm
Ceiling Air Valve Supply - Fire Rated

For use with Titon’s HRV Q Plus Range

The Fire Rated Air Valve is manufactured from White Epoxy Coated Powder Coated Steel. The valve has a male spigot to fit inside a ducting 100/125/150 system depending on selection.

The extract air valve is fully adjustable and has a locking nut to fix the position of the control disc upon commissioning. It is supplied complete with fixing body and pre-drilled holes for installation.

The Fire Rated air valve incorporates an integral intumescent material and has been fire tested to BS EN 1365-2:1999 with 60 minutes rating for ceilings.

The valve engages/disengages to the fixing body by a quarter turn clockwise/anticlockwise.

Product Specification

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Drawing and Dimensions

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</tr>
<tr>
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Dimensions in mm

Performance Details

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Pressure loss with control disc open to 10mm
Titon can supply semi-rigid ducting suitable for domestic ventilation applications. This is not widely used in the UK, however, it is clear semi-rigid ducting can offer a number of benefits over the traditional rigid product:

Easier to fit - via ‘dry’ joints which seal tightly and do not require sealant and tape.

In addition, ducting is supplied in long lengths, which means usually only two cuts and two joints are required for each duct run to a room. This drastically reduces the number of different duct items required. This can result in a much quicker and cheaper installation than conventional methods.

Easier to commission - Central flow plenums reduce the need to re-adjust flow around the dwellings and flow terminals do not need to be adjustable.

Improved performance - Flow is smooth, while leaks and restrictions are eliminated, so lower settings on the unit can be utilised. A better installed system should also develop fewer problems in the future.

**Semi-Rigid Components**

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<th>Product Code</th>
<th>Product Description</th>
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<tr>
<td>DSR122</td>
<td>Insulated 8 port manifold</td>
</tr>
<tr>
<td>DSR007</td>
<td>Restriction ring</td>
</tr>
<tr>
<td>DSR022</td>
<td>Universal diffuser (Extract &amp; Supply)</td>
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<table>
<thead>
<tr>
<th>Ø92mm</th>
<th>Ø75mm</th>
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<tbody>
<tr>
<td>DSR008</td>
<td>Semi-Rigid ducting - Blue</td>
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<tr>
<td>DSR004</td>
<td>Manifold to duct connector</td>
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<tr>
<td>DSR010</td>
<td>Duct to duct connector</td>
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<td>DSR013</td>
<td>Duct to diffuser straight connector</td>
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<td>DSR016</td>
<td>90° bend</td>
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<tr>
<td>89706</td>
<td>Insulation sleeve x 10m</td>
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<td>DSR126</td>
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<tr>
<td>DSR052</td>
<td>Semi-Rigid ducting - Red</td>
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<td>Insulation sleeve x 10m</td>
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<tr>
<td>DSR125</td>
<td>Duct to diffuser 90° connector</td>
</tr>
</tbody>
</table>

**Features & Benefits**

- Flow rates are set easily and simply at install, no need for additional commissioning
- Components click together to form airtight secure joints without using messy sealants and unreliable tapes
- Joints can be disassembled and reassembled easily to allow installer adjustment
- Minimal resistance to airflow, due to smooth inner skin
- Ducting remains flexible whilst maintaining profile – the bends do not collapse which is a risk with traditional flexible ducting
- The duct is cut to length on-site meaning no modular connection is required between plenum and air valve
- Successfully used for many years on the continent. Titon have adapted the product specifically to suit installation in new build dwellings in the UK
- Individual rooms connected to sound absorbing plenum to help overcome noise transfer, reducing the risk of noise pollution from outside the dwelling whilst eliminating ‘cross talk’ between rooms

There are considerations to be made in order to achieve these advantages - however, with forethought these can be incorporated to allow a semi-rigid ducted system to be used:

Design ahead - Some extra room is required near the ventilation unit for the inclusion of the plenum boxes, so this has to be discussed at the point of house design.

Duct runs - As each room is ducted separately, which helps control specific airflow, duct layout and provision for it must be planned.

Familiarity for contractors - It will take one or two installations before contractors become used to the system and can then reap the benefits of its simplicity.

Cost - The system parts are typically more expensive per property than rigid ducting, however savings can be made due to the reduced labour cost in installing each system.
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

Lightweight, durable and fully conformed to building regulations, the Self- Seal Thermal Ducting range is designed to assist in minimising heat loss through the ductwork system of your chosen ventilation system while preventing condensation forming in or on the duct. The first of its kind to introduce push-fit technology, our range is supplied complete, with no need for extra connections or components.

The Self-Seal Thermal range includes both round and rectangular solutions and can therefore provide everything you need for a full installation.

### Thermal Ducting Components

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<tr>
<th>Ø125mm</th>
<th>Ø160mm</th>
<th>Insulation</th>
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<td>8960327</td>
<td>Round Thermal Duct with connector - 1.0m Long</td>
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<td>8960328</td>
<td>Round Thermal Duct with connector - 2.0m Long</td>
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<td>8960329</td>
<td>Thermal 90° Bend with connectors</td>
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<td></td>
<td>8960330</td>
<td>Thermal 45° Bend with connectors</td>
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<td>Thermal Tee Piece with connectors</td>
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<td>8960335</td>
<td>Thermal - Ø160mm to Ø150mm Adaptor</td>
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<tr>
<td>8960306</td>
<td>8960332</td>
<td>Thermal Self Seal Connector - Duct to Duct</td>
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<td>Thermal Self Seal Connector - Duct to Fitting</td>
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<td>Thermal 90° Horizontal Bend with connectors</td>
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<td>Thermal 45° Horizontal Bend with connectors</td>
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<td>8960322</td>
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<tr>
<td>8960317</td>
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</table>

### Features & Benefits

- Easy to install with a simple pushfit
- Minimises air leakage
- Installer friendly
- Profiles to suit any application
- Energy saving
- Building Regulation compliant
- No need for extra Rockwood or foil wrapping
- No requirement for additional clamping
For use with Titon’s HRV Q Plus Range

Titon’s Semi Flexible Sound Attenuators consists of a strong multiple layered corrugated perforated aluminium inner duct with an aluminium/polyester laminated outer jacket.

The space between the inner and outer duct is filled with 25mm sound absorbing material which is protected by a vapour barrier. The duct is fitted with galvanised metal sleeves at both ends to fit to duct work - Female spigots for direct connection to MVHR’s or duct connectors.

Our Semi Flexible Sound Attenuators fulfil all the requirements and are classified as specified within EN 13180: Ventilation for buildings – Duct work - Dimensions and mechanical requirements for flexible ducts.

Specification

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Type</th>
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<td>89720</td>
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<td>89728</td>
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</table>

Features & Benefits

→ Designed for Titon’s MVHR range
→ Easy to fit and install
→ Semi flexible self supporting ducting, minimises airflow resistance
→ Fulfils EN 13180: Ventilation for buildings - Duct work
→ Acoustically tested to BS EN ISO 7235
→ Available in 125mm, 150mm and 200mm diameter
→ Flexibility in shape and length, assists quick and tidy installations
→ Reduces both duct and breakout sound levels
→ Provides both acoustic and thermal insulation
→ Isolates unit to ducting to help prevent noise transmission through vibrations

Construction

Inner duct: Aluminium
Barrier: Nonwoven cloth
Glass wool blanket: 25mm, 16kg/m³
Outer jacket: Alu/poly laminate
R-value glass wool: 0.65 m² K/W
Thermal Conductivity: 0.0385w/(m.k)
Appearance: Aluminium

Classification

EU (EN 13501-1):
Inner duct: A1
Outer Jacket: B-s1,d0 mode

Temperature range:
- Inner duct: -30°C to 250°C
- Outer jacket: -30°C to 140°C
Operating pressure: up to +2000 Pa
Operating air velocity: max. 10 m/s
Min. bending radius: 1 x Ø + 25 mm
Standard length: 0.5 & 1.0 metres
Other diameters available to order.
### Drawing and Dimensions

![Drawing](image)

### According to EN-1506

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<thead>
<tr>
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### Sound Attenuation

#### Length 500mm

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<tr>
<th>Dn (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
<th>Attenuation, dB - Mid-frequency, Hz</th>
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#### Length 1000mm

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<tr>
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### Attenuation Through The Duct Wall (Breakout) - Length 500mm

<table>
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<th>L (mm)</th>
<th>Attenuation, dB - Mid-frequency, Hz</th>
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### Attenuation Through The Duct Wall (Breakout) - Length 1000mm

<table>
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<th>L (mm)</th>
<th>Attenuation, dB - Mid-frequency, Hz</th>
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<tbody>
<tr>
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<td>125</td>
<td>1000</td>
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<td>1000</td>
<td>21.8 17.8 12.9 9.3 8.4 8 10.5 13.9</td>
</tr>
</tbody>
</table>

### Pressure Loss

![Pressure Loss Graph](image)

For 200mm please enquire.
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

In the ever changing world of greater energy efficiency and more comfortable living, there has been a step change in the way that designers and specifiers have addressed domestic ventilation challenges.

Many new homes now incorporate central ventilation systems whereupon individual rooms are connected to a central system utilising a heat recovery unit. This allows for the collection of warm moist air from the wet areas, say in the kitchen and bathroom, to be ducted to the central heat recovery unit, where the moisture content is reduced and the dryer, warm air is used to condition fresh air from outside which is returned to other living spaces, such as the lounge and bedrooms.

One of the potential disadvantages to this network of ducting is that noise from the electric fan and mechanical moving parts can be transmitted along the duct runs and cause a noise nuisance to the occupants.

Key Features
Titon’s plastic duct silencers available in 204mm x 60mm and 220mm x 90mm have been designed for high flow rate installations with low pressure drops.

The new silencer offers many advantages over the traditional metal equivalent with corrosion free plastic construction giving a long serviceable life and no maintenance.

With a height profile of only 95mm, allows for installation in most ceiling and roof voids and can be hidden out of sight on top of kitchen cupboards.

Titon’s plastic duct silencers provide effective attenuation as recommended by Document F of the Building Regulations 2010.

Features & Benefits
- High-flow performance and low resistance
- Reducing in-duct noise
- Reduces cross talk attenuation
- Available in 204 x 60mm and 220 x 90mm
- Lengths available 500mm, 1000mm and 1500mm
- Lightweight and easy to install
- Anti-corrosive

Specification

Available Colours: White
Free Area: up to 11,664mm²
Max/min temp: 60°C / -15°C
Material used: UPVC

<table>
<thead>
<tr>
<th>Length</th>
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Sound Attenuators - Rigid Ducting
### Product Specifications

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<th>Height</th>
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<td>Rectangular 204 x 60 Hi Flow</td>
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<td>Rectangular 204 x 60 Hi Flow</td>
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### Noise Reduction

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### Flow Rate

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<table>
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<td>99.0</td>
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</table>
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

Fire Sleeves prevent the spread of fire where plastic pipes or plastic ducts penetrate fire compartment walls.

Regulations

Building Regulations impose limitations on all pipes passing through fire compartment walls and floors. QRS Intumescent Fire Sleeves allow plastic ducts to meet the requirements of the Building Regulations. QRS Intumescent Fire Sleeves have been tested according to BSEN 1366-3: 2009 where various plastic duct sizes have met insulation and integrity criteria for this standard for up to 2 hours.

Composition

The QRS Intumescent Fire Sleeves consist of a flexible galvanised steel shell containing graphite based intumescent material.

They are manufactured to suit flat ducts of 110x54mm, 204x60mm, and 220x90mm. And round ducts with 100mm and 125mm overall diameter.

Durability

Tested to Type X durability which means the QRS Fire Sleeves can be installed in conditions exposed to weathering. QRS CE Marked Fire Sleeves are expected to last the lifetime of the building.

Performance

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Duct Size (mm)</th>
<th>Space needed around duct to fit QRS Sleeve (mm)</th>
<th>QRS length (mm)</th>
<th>Fire Rating</th>
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<tbody>
<tr>
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<td>110 x 54</td>
<td>9</td>
<td>140</td>
<td>120 minutes</td>
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<tr>
<td>QRS205/60</td>
<td>204 x 60</td>
<td>9</td>
<td>180</td>
<td>120 minutes</td>
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<tr>
<td>QRS220/90</td>
<td>220 x 90</td>
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<td>256 x 126</td>
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<tr>
<td>QRS110*</td>
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<td>QRS130*</td>
<td>125</td>
<td>20</td>
<td>180</td>
<td>90 minutes</td>
</tr>
</tbody>
</table>

* QRS130 and QRS110 are not currently CE Marked
Fire Sleeve (Slim) - Ducting

For use with Titon’s HRV Q Plus and CME Q Plus Ranges

Slim Fire Sleeves prevent the spread of fire where plastic pipes penetrate fire compartment walls.

They are specifically designed to be slim for applications where there is limited space around the duct.

Regulations

Building Regulations impose limitations on all pipes passing through fire compartment walls and floors. QRS Vent Duct Slim Sleeves allow plastic ducts to meet the requirements of the Building Regulations. QRS Vent Duct Slim Sleeves have been tested according to BSEN 1366-3: 2009 where various plastic duct sizes have met insualtion and integrity criteria for this standard for up to 2 hours.

Compositions

The QRS Vent Duct Slim Sleeves consist of a flexible galvanised steel shell containing graphite based intumescent material.

They are manufactured to suit flat ducts of 110x54mm, 204x60mm and 220x90mm.

Durability

Tested to Type X durability which means the QRS Vent Duct Slim Sleeves can be installed in conditions exposed to weathering. QRS Vent Duct Slim Sleeves are expected to last the lifetime of the building.

QRS CE Marked Fire Sleeves are expected to last the lifetime of the building.

Performance

<table>
<thead>
<tr>
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<th>Space needed around duct to fit QRS Slim Sleeve (mm)</th>
<th>Recommended aperture (mm)</th>
<th>QRS length (mm)</th>
<th>Fire Rating</th>
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<tbody>
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<tr>
<td>QRS204/60SS</td>
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<td>90 minutes</td>
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<td>QRS220/90SS</td>
<td>220 x 90</td>
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<td>241 x 112</td>
<td>140</td>
<td>60 minutes</td>
</tr>
</tbody>
</table>

Features & Benefits

- CE Marked
- Tested to BSEN 1366-3: 2009
- Tested with Uncapped/Uncapped (U/U) duct configurations as required for ventilation ducts
- Up to 2 hour fire rating
- Very slim-line (saves ceiling space)
- Suitable for masonry walls or plasterboard partitions
- Suitable for insulated and non-insulated partitions
- Can be retrofitted
- No mechanical fixings required
- Robust galvanised steel shell
- Performance unaffected by weathering (Type X Durability)

Applications/Installation

The QRS Vent Duct Slim Sleeves should be placed around the ventilation duct, positioned centrally within the partition and should be flush or protrude from each face of the wall. The plasterboard should be cut to a tight fit around the QRS Vent Duct Slim Sleeves, and any gaps should be sealed with the GM Intumescent Acoustic Sealant.
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

The Q Plus High Flow Brick is a unique design, as the exceptional airflow performance of a single unit makes it ideal for use in ducted domestic ventilation systems, replacing conventional and unsightly airbricks at least twice the size.

A cost effective alternative recommended for use with Titon Q Plus Best Practice MVHR and CME products, the Q Plus High Flow Air Brick is designed to be built into the brickwork during construction. It can be supplied with the appropriate ducting components to bridge the cavity, making it easy to connect to the ventilation system once installed.

**Features & Benefits**

- Unique high flow design equivalent to many brick sized grilles
- Cost effective; lower cost than double brick grille and adaptor
- Recommended for use with EST Best Practice systems (Titon Q Plus)
- Saves time and complication of creating double brick size aperture
- Designed to be an integral part of external walls
- Q Plus High Flow Brick AAO = 8670mm²
- Q Plus High Flow Brick EA = 10602mm²
- Can be supplied with short duct length for build in during construction, creating an unobstructed air path

**RAL Colors**

- RAL 8004 - Terracotta
- RAL 1001 - Sand
- RAL 9010 - White
- RAL 7012 - Grey
- RAL 8017 - Brown
**Description**

Q Plus High Flow Air Brick

**Product Codes**

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
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<td>Grey Air Brick</td>
</tr>
<tr>
<td>TA350/093</td>
<td>Beige Air Brick</td>
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<td>TA350/094</td>
<td>Terracotta Air Brick</td>
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<tr>
<td>TA350/315</td>
<td>Brown Air Brick</td>
</tr>
<tr>
<td>TA350/932</td>
<td>White Air Brick</td>
</tr>
<tr>
<td>TA351/xxx*</td>
<td>Air Brick + 500mm 204 x 60 duct</td>
</tr>
<tr>
<td>TA352/xxx*</td>
<td>Air Brick + 500mm ducting + 204 to 125mm adapter</td>
</tr>
<tr>
<td>TA356/xxx*</td>
<td>Bezel for TA350 Q Plus High Flow Brick Plastic</td>
</tr>
</tbody>
</table>

*xxx confirm colour from codes given in TA350

**Specification**

- **Dimensions:** 64.5mm height x 213.5mm width x 58mm depth
- **Weight:** Approx 100g
- **Finishes:** Terracotta, Sand, Brown, White or Grey
- **Bezel:** TA356, White, Grey or Brown
- **Materials:** 20% talc filled polypropylene (UV Stabilised)
- **Installation:** Install in accordance with Residential Ventilation Association Good Practice recommendations - details on request.
- **Maintenance:** Wipe with a damp cloth and remove any blockages on a regular basis.

**High Flow Terminal Resistance (supply or extract)**

![Graph showing airflow and static pressure](image)
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

The new Titon FireSafe® Air Brick Range is a unique high flow terminal designed for powered ventilation systems offering low resistance to airflow, but high resistance to fire as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition. Constructed from sheet steel (A1) and polyester powder coated to classification A2-s1, d0.

The Titon FireSafe® Air Brick is designed to be built into external wall types during construction. The range consists of short and long versions and can easily be connected to both 204x60 and 220x90 rectangular ducting.

Description
Titon FireSafe® Single Air Brick

Product Codes
TA360 - Titon FireSafe® Air Brick 204x60x100
TA361 - Titon FireSafe® Air Brick 204x60x100 Bezelled
TA370 - Titon FireSafe® Air Brick 204x60x400
TA371 - Titon FireSafe® Air Brick 204x60x400 Bezelled
TA380 - Titon FireSafe® Air Brick 330x60x100
TA381 - Titon FireSafe® Air Brick 330x60x100 Bezelled
TA390 - Titon FireSafe® Air Brick 330x60x400
TA391 - Titon FireSafe® Air Brick 330x60x400 Bezelled
TA392 - Titon FireSafe® Air Brick 330x60x500
TA393 - Titon FireSafe® Air Brick 330x60x500 Bezelled

Accessories
TA362 - Metal 45° Bend 204x60
TA382 - Metal 45° Bend 330x60
TA383 - Metal Transition 330x60 to 220x90
TA363 - Metal Sleeve 204x60x200
TA384 - Metal Sleeve 220x90x400
8960287 – Intumescent Fire Stop Mastic (Sealant)

Features & Benefits
- Polyester Powder Coating meeting EN13501-1 classification A2-s1,d0
- Material 1.2mm Electrogalvanized Sheet Steel, fire class A1 ‘no contribution to fire’
- Equivalent to many brick sized grilles and additional brick and half size option
- Designed for both 204x60 & 220x90 ducting
- Bezelled version for use with exterior cladding instead of brickwork
- Non-combustible as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition
- High flow terminal designed for powered ventilation systems offering low resistance to airflow and high resistance to fire
- Extensive versatile range for different installation options
- Registered Design
- Also available in Double brick (204x128) option
- Special paint finishes available depending on quantity
- Performance tested to BS EN13141-2:2010
- Corrosion resistance - salt spray tested to BS EN ISO 9227:2012
- Optional lengths available at request
- Compatible with thermal and rigid ducting

Specification
Materials:
- Steel Electrolytically Zinc Coated (BS EN 10152 DC01 ZE25/25)
- Paint: Powder Coated (A2-s1, d0 classification to EN 13501-1)

Registered Design
- TA360 - Registered Design No 6067647
- TA370 - Registered Design No 6067645
- TA380 - Registered Design No 6067648
- TA390 - Registered Design No 6067646
- TA392 - Registered Design No 6067646

Finishes: Terracotta, Sand, Grey, White or Brown

Installation:
Install in accordance with Residential Ventilation Association Good Practice recommendations – details on request.

Maintenance: Wipe with a damp cloth and remove any blockages on a regular basis.

Free Area:
- Small Air Bricks
  TA360, TA361, TA370 & TA371
  Titon FireSafe® Air Brick AAO = 10089 mm²

- Large Air Bricks
  TA380, TA381, TA390, TA391, TA392 & TA393
  Titon FireSafe® Air Brick AAO = 16060 mm²

Sales and Technical Support +44 (0) 1206 713801 www.titon.com
High Flow Terminal Resistance - 204x60x100/400

TA360 - Titon FireSafe® Air Brick 204x60x100/
TA361 - Titon FireSafe® Air Brick 204x60x100 Bezelled

TA360 - Titon FireSafe® Air Brick 204x60x100/
TA361 - Titon FireSafe® Air Brick 204x60x100 Bezelled
with
TA362 - Titon FireSafe® Air Brick 45° Bend 204x60

TA370 - Titon FireSafe® Air Brick 204x60x400/
TA371 - Titon FireSafe® Air Brick 204x60x400 Bezelled

TA370 - Titon FireSafe® Air Brick 204x60x400/
TA371 - Titon FireSafe® Air Brick 204x60x400 Bezelled
with
TA362 - Titon FireSafe® Air Brick 45° Bend 204x60
High Flow Terminal Resistance - 330x60x100/400/500

TA380 - Titon FireSafe® Air Brick 330x60x100
TA381 - Titon FireSafe® Air Brick 330x60x100 Bezelled with
TA382 - 45° Bend 330x60 and
TA383 - Transition 330x60 to 220x90

TA390 - Titon FireSafe® Air Brick 330x60x400
TA391 - Titon FireSafe® Air Brick 330x60x400 Bezelled
TA392 - Titon FireSafe® Air Brick 330x60x500
TA393 - Titon FireSafe® Air Brick 330x60x500 Bezelled with
TA382 - 45° Bend 330x60 and
TA383 - Transition 330x60 to 220x90
Drawings & Dimensions

### TA360, TA370, TA380, TA390 & TA392 - Titon FireSafe® Air Brick

<table>
<thead>
<tr>
<th>Product Size</th>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>Weight (Kg)</th>
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</thead>
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<td>TA360</td>
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<td>TA370</td>
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<tr>
<td>330x60x100</td>
<td>TA380</td>
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<tr>
<td>330x60x400</td>
<td>TA390</td>
<td>400</td>
<td>330</td>
<td>4.3</td>
</tr>
<tr>
<td>330x60x500</td>
<td>TA392</td>
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<td>5.2</td>
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### TA361, TA371, TA381, TA391 & TA393 - Titon FireSafe® Air Brick Bezel

<table>
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<th>A</th>
<th>B</th>
<th>Weight (Kg)</th>
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</thead>
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<td>TA361</td>
<td>100</td>
<td>208.8</td>
<td>1.3</td>
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<tr>
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<td>TA371</td>
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<td>208.8</td>
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</table>

Bezel

204x60

330x60 Version
Drawings & Dimensions

TA383 - Transition 330x60 to 220x90
Weight - 1.5kg

TA362 - 45° Bend 204x60
Weight - 2.7kg

TA382 - 45° Bend 330x60
Weight - 3.7kg

TA363 - Metal Sleeve 204x60x200
Weight - 1kg

TA384 - Metal Sleeve 220x90x400
Weight - 2.5kg
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

The new Titon FireSafe® Air Brick Range is a unique high flow terminal designed for powered ventilation systems offering low resistance to airflow, but high resistance to fire as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition. Constructed from sheet steel (A1) and polyester powder coated to classification A2-s1, d0.

The Titon FireSafe® Air Brick is designed to be built into external wall types during construction. The range consists of short and long versions and can easily be connected to 220x90 rectangular ducting.

Description
Titon FireSafe® Double Air Brick

Product Codes
TA364 - Titon FireSafe® Air Brick 204x128x100
TA365 - Titon FireSafe® Air Brick 204x128x100 Bezelled
TA372 - Titon FireSafe® Air Brick 204x128x400
TA373 - Titon FireSafe® Air Brick 204x128x400 Bezelled
TA374 - Titon FireSafe® Air Brick 204x128x500
TA375 - Titon FireSafe® Air Brick 204x128x500 Bezelled

Accessories
TA366 - Transition 204x128 to 220x90
TA384 - Metal Sleeve 220x90x400
8960287 – Intumescent Fire Stop Mastic (Sealant)

Features & Benefits

- Polyester Powder Coating meeting EN13501-1 classification A2-s1,d0
- Material 1.2mm Electrogalvanised Sheet Steel, fire class A1 ‘no contribution to fire’
- Designed for 220x90 ducting
- Bezelled version for use with exterior cladding instead of brickwork
- Non-combustible as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition
- High flow terminal designed for powered ventilation systems offering low resistance to airflow and high resistance to fire
- Extensive versatile range for different installation options
- Registered Design
- Also available in Single brick (204x60 and 330x60) options
- Special paint finishes available depending on quantity
- Performance tested to BS EN13141-1:2:2010
- Corrosion resistance - salt spray tested to BS EN ISO 9227:2012
- Optional lengths available at request
- Compatible with thermal and rigid ducting

Specification

Materials:
Steel Electrolytically Zinc Coated (BS EN 10152 DC01 ZE25/25)

Paint:
Powder Coated (A2-s1, d0 classification to EN 13501-1)

Registered Design
TA364 - Registered Design No 6080907
TA372 - Registered Design No 6080908
TA374 - Registered Design No 6080908

Finishes:
RAL 8004 (/086) Matt Copper Brown
RAL 1001(626) Matt Pale Beige
RAL 7012 (397) Matt Basalt Grey
RAL 9010 (/151) Matt White
RAL 8017 (/023) Semigloss Brown

Installation:
Install in accordance with Residential Ventilation Association Good Practice recommendations – details on request.

Maintenance: Wipe with a damp cloth and remove any blockages on a regular basis.

Free Area:
TA364, TA365, TA372, TA373, TA374 & TA375
Titon FireSafe® Air Brick AAO = 20,111 mm²
High Flow Terminal Resistance - 204x128x100/400/500

TA364 – Titon FireSafe®Air Brick 204x128x100
TA365 – Titon FireSafe®Air Brick 204x128x100 Bezelled
With
TA366 – Transition 204x128 to 220x90

TA372 – Titon FireSafe®Air Brick 204x128x400
TA373 – Titon FireSafe®Air Brick 204x128x400 Bezelled
TA374 – Titon FireSafe®Air Brick 204x128x500
TA375 – Titon FireSafe®Air Brick 204x128x500 Bezelled
With
TA366 – Transition 204x128 to 220x90

Drawings & Dimensions

TA366 - Transition 204x128 to 220x90
Weight - 1.4kg

TA384 - Metal Sleeve 220x90x400
Weight - 2.5kg
Drawings & Dimensions

TA364, TA372, TA374 - Titon FireSafe® Double Air Brick

<table>
<thead>
<tr>
<th>Product Size</th>
<th>Part Number</th>
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<th>B</th>
<th>C</th>
<th>Weight (Kg)</th>
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<td>TA374</td>
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<td>209</td>
<td>129</td>
<td>5.7</td>
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TA365, TA373, TA375 - Titon FireSafe® Double Air Brick Bezel

<table>
<thead>
<tr>
<th>Product Size</th>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight (Kg)</th>
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<tbody>
<tr>
<td>204x128x100</td>
<td>TA365</td>
<td>100</td>
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<td>2.4</td>
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<td>TA375</td>
<td>500</td>
<td>209</td>
<td>129</td>
<td>5.8</td>
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</table>

Bezel - 204x128
For use with Titon’s HRV Q Plus and CME Q Plus Ranges

Titon’s self-seal connectors offer a simple, mess free, solution to reduce air leakage when it comes to ducting a ventilation system.

All new installations have to be performance tested on completion and achieve predetermined airflows at extract and supply points to meet the required standards. This means that air leakage at the joints in ventilation ducting systems has become a major concern, because leakage will adversely affect the airflow performance and balance of the system. Plus, if the installed performance does not achieve the minimum design performance, then expensive remedial work will be required.

The traditional method of reducing air leakage at the joints is to apply silicon sealant and duct tape in and around the joints, which is labour intensive, messy to apply, not always effective and difficult to dismantle. Self-seal ducting solves these problems by providing tape free, sealant free, very airtight connections. This cuts down on installation time, mess and waste.

Features & Benefits

→ Fast fit, reduced labour demand
→ Uniquely shaped gasket, no air leakage
→ BRE tested, test report No. 285430
→ Simple push-fit couplings
→ Silicon and duct tape free installation
→ Withstands both negative and positive pressure

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8960250</td>
<td>125Ø Duct to Fitting Self-Seal Connector</td>
</tr>
<tr>
<td>8960251</td>
<td>125Ø Duct to Duct Self-Seal Connector</td>
</tr>
<tr>
<td>8960252</td>
<td>204 x 60mm Ducting to Duct Self-Seal Connector</td>
</tr>
<tr>
<td>8960253</td>
<td>204 x 60mm Ducting to Fitting Self-Seal Connector</td>
</tr>
<tr>
<td>8960270</td>
<td>220 x 90mm Ducting to Duct Self-Seal Connector</td>
</tr>
<tr>
<td>8960271</td>
<td>220 x 90mm Ducting to Fitting Self-Seal Connector</td>
</tr>
</tbody>
</table>

For use with Titon’s standard PVC ducting range.
A range of high performance roof terminals to suit the majority of popular roofing materials, specifically designed for mechanical ventilation applications. The inappropriate use of roof terminals not designed for mechanical ventilation systems can severely compromise performance.

**Description:**
Pitch roof (slate and tile) supply or exhaust terminal with flashing and integral condensate drain.

**Product code:** UB34

**Specification:**
- Diameter connection: 125mm
- Type of tile: Universal
- Ventilation capacity: 12,250mm²
- Resistance @ 28 l/s: 0.2 Pa
- Hooded: Black
- Material: PP
- Finish: Black
- Roof Pitch - 25-35°

**Description:**
Pitch roof (slate and tile) supply or exhaust vent with flashing included reducer.

**Product code:** UB41

**Specification:**
- Diameter connection: Stepped adaptor 100/110/125/150/160mm
- Type of tile: Universal
- Hooded: Hooded
- Material: PVC/Ubiflex
- Finish: Black or Terracotta
- Roof Pitch - Minimum 22.5°

**Description:**
Flat roof (felt or asphalt) supply or exhaust terminal with flashing and integral condensate drain.

**Product code:** OFT4/131

**Specification:**
- Diameter: 125mm
- Height over roof: 400mm
- Height under roof: 350mm
- Diameter of flange: 450mm
- Ventilation capacity: 12,500mm²
- Resistance @ 28 l/s: 0.2 Pa
- Material: PP/ALU
- Finish: Black

**Diameter Free vent Area Pressure/Airflow Resistance (Pascals)**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Free vent Area (mm²)</th>
<th>Pressure/Airflow (l/s)</th>
<th>Resistance (Pascals)</th>
</tr>
</thead>
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<tr>
<td>100</td>
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<td>110</td>
<td>8850</td>
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<td>125</td>
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<td>150</td>
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<tr>
<td>160</td>
<td>18750</td>
<td>6.5</td>
<td>31</td>
</tr>
</tbody>
</table>

**Description:**
Ridgeline Vent designed to replace a normal ridge tile and are available to match all popular ridge tiles and can also be made to match obsolete tiles. (For extract only)

**Product code:** 9020001

**Specification:**
- Diameter: 125mm
- Type of tile: Concrete and clay ridge tiles
- Ventilation capacity: 12,500mm²
- Resistance: 125mm @ 30 l/s: 4.0 Pa
- Colour: BN28 – Sandtoft Dark Heather, GY11 – Marley Blue/Black, RD43CW – Rustic Red
To ensure Titon products continue to work effectively, it is important to ensure they are installed correctly and are well maintained throughout their lifecycle. Failure to do so can invalidate your product warranty.

Powered ventilation products require regular servicing by a qualified engineer.

For specific details of how to care for your Titon product, visit the Titon website using the link on each product page within this catalogue, under the ‘more information’ section. The link takes you to a dedicated page for the product.

The downloads section on that page contains instructions for installing, operating or maintaining each product.

Each product must be installed, used and maintained according to our written instructions (or those of our suppliers) or, if we have not produced such instructions, according to normal good working practices.

It is the customers' responsibility to ensure product suitability in any application.

Instruction Sheets

Product Manuals

Test Reports

Guarantees
Further information

If you require more details on Titon’s products and services please go to www.titon.com. The Titon website is full of comprehensive information on the complete Titon range. Any recent product specification changes will appear on the site and a subscription service is available to automatically inform you of any updates.

- For details on Titon Part F Ventilation CPD Seminars go to www.titon.com/cpd
- To subscribe to email updates got to www.titon.com/subscribe
- For further information on SAP Appendix Q, how buildings are assessed for energy performance and a list of applicable products, go to www.ncm-pcdb.org.uk
- For Government information on Building Regulations in England & Wales go to www.gov.uk and search for ‘Building Regulations’.
- For more information on new home building and NHBC Guides visit the NHBC foundation website www.nhbcsfoundation.co.uk
- To download Approved Document F go to www.planningportal.gov.uk/buildingregulations/approveddocuments/partf/approved
- To download the Domestic Ventilation Compliance Guide go to www.planningportal.gov.uk/buildingregulations/approveddocuments/partf/associated
- To download other relevant Approved Documents for the Building Regulations (England & Wales) go to www.planningportal.gov.uk/buildingregulations/approveddocuments
- The trade association for ventilation in housing is the Residential Ventilation Association (RVA), part of the Heating Ventilating & Air Conditioning Manufacturers Association, go to www.feta.co.uk/rva
- For information on BEAMA, the trade associations representing the energy and power industry (Titon is a member of the mechanical ventilation association, TEHVA) go to www.beama.org.uk
- For details on energy efficiency go to the Energy Savings Trust (EST) www.energysavingtrust.org.uk
- For information on the delivery of low and zero carbon homes in England go to the Zero Carbon Hub www.zerocarbonhub.org
- To purchase online, please go to www.titondirect.com for a range of products and accessories.