



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 (HMB and B models) or the auramode®, aurastat® or aura-t™ controllers (B models only).



Eco HMB Version



Eco B Version



aurastat®



auralite®



auramode®



aura-t™

Features & Benefits

- Extremely low Specific Fan Power; down to 0.66 W/l/s
- Constant volume fans
- Highly efficient heat exchanger; up to 90%
- Airflow up to 118 l/s (423m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0- 60 minutes; use with nonlatching (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
- Lightweight for easy handling
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard with ISO Coarse 60% (G4) as an option
- Re-usable plastic filter frames
- Quick fix mounting bracket
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing

Basic version:

- Summer Mode

Eco Versions:

- Intelligent Summer Bypass & humidity controls
- SUMMERboost® facility

Eco HMB Models:

- Compatible with auralite® (TP518) status indicator
- Quick access filter doors 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)
- Available in left and right handed configurations
- Enthaply Heat Cell option available
- BMS compatible via RS485

Product Codes

HRV3 *Q Plus* -
TP402A - Energy Rating B

HRV3 *Q Plus* HMB Eco auralite® ready -
TP402HMB - Energy Rating A

HRV3 *Q Plus* B Eco-aura controls ready -
TP412B/LH (left hand config) or
TP412B/RH (right hand config) - Energy Rating A

Filters:

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
 (<http://www.ncm-pcdb.org.uk/sap/pcdbsearch.jsp?pid=34>)

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)
 EN 60335-1:2002/A2:2006, EN 60335-2- 80:2003/A1:2004.

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.

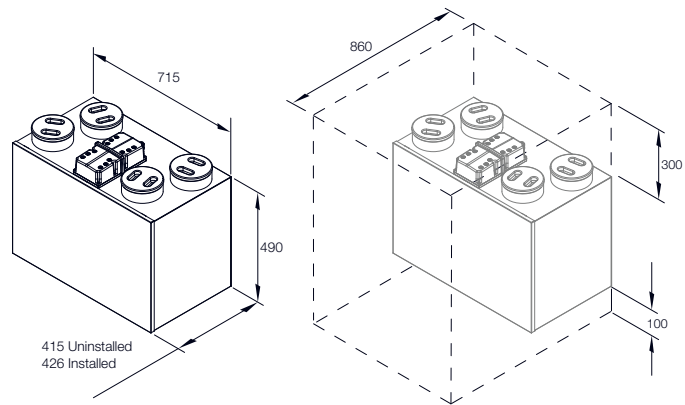
Maintenance: Service and filter clean/replacement subject to local environment - see product manual.

Acoustic Data

Product	% of Max flow	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical
			Induct Inlet	Induct Outlet	Casing Breakout	Casing Breakout
HRV3 <i>Q Plus</i> Eco	33%	36l/s @ 10Pa	25	35	21	18
	68%	73l/s @ 48Pa	36	49	29	26
	100%	108l/s @ 100Pa	45	57	37	34

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

Drawing & Dimensions



Performance

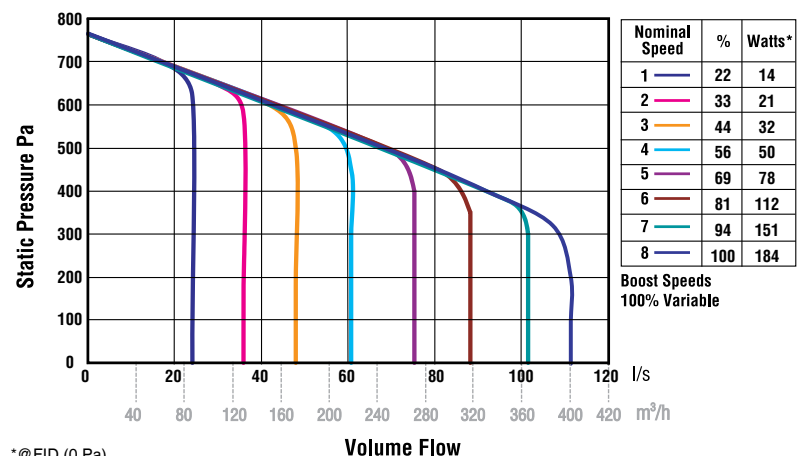
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.co.uk.

Exhaust terminal configuration*	Fan speed setting	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 3 additional wet rooms	100% variable	0.66	90
Kitchen + 4 additional wet rooms	100% variable	0.78	89
Kitchen + 5 additional wet rooms	100% variable	0.91	88
Kitchen + 6 additional wet rooms	100% variable	1.05	88
Kitchen + 7 additional wet rooms	100% variable	1.22	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



*@FID (0 Pa).
 All units offer 100% variable speed control.
 Performance curves for Eco version.