HRV3 Q Plus

Ultra energy efficient Heat Recovery Ventilation unit

For use in medium to large sized 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).

MVHR

aurastat®	auralite®	auramode®	aura-t™
			

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 105l/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 (subject to limitations, additional software requirements and specification with any order)**

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-aura controls 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 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)

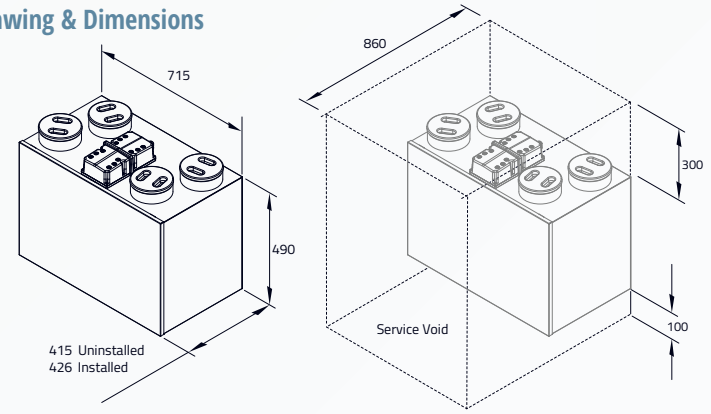
Electrical: 230V ~ 50/60Hz, 5A fuse

Installation: Install in accordance with regulatory requirements, such as the Ventilation: Approved Document F 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



Dimensions in mm

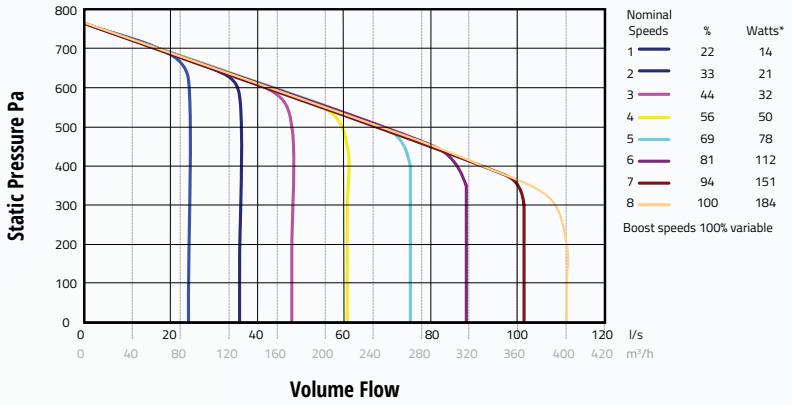
Performance

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 (%)
		2009		2012	
Kitchen + 2 additional wet rooms	100% variable	-	-	0.71	90%
Kitchen + 3 additional wet rooms	100% variable	0.67	90%	0.85	88%
Kitchen + 4 additional wet rooms	100% variable	0.77	89%	1.04	87%
Kitchen + 5 additional wet rooms	100% variable	0.87	88%	1.28	87%
Kitchen + 6 additional wet rooms	100% variable	1.02	87%	1.58	87%
Kitchen + 7 additional wet rooms	100% variable	1.20	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)
100% variable speed control. Performance curves for Eco version.

Acoustic Data

Product	% of Max flow	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical
			Induct Inlet	Induct Outlet	Casing Breakout	Casing Breakout
HRV3 Q Plus	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.com. All acoustic data is third party tested at Sound Research Laboratories (SRL) Ltd.