HRV10 Q Plus

Ultra energy efficient Heat Recovery Ventilation unit

For use in large sized 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).

aurastat®	auralite®	auramode®	aura-t™
			

Features & Benefits

- **Extremely low Specific Fan Power; down to 0.52 W/l/s**
- **Highly efficient heat exchanger; up to 91%**
- **Airflow up to 111l/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**

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

Product Codes

HRV10 Q Plus -
TP440A - Energy Rating A

HRV10 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+

HRV10M Q Plus -
TP441A - Energy Rating A

HRV10M Q Plus HMB Eco auralite® & aura-t™ ready -
TP441HMB - Energy Rating A

HRV10M Q Plus B Eco-aura controls ready -
TP481B - 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.

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: HRV10 Q Plus - 790mm wide x 663mm high (excluding ports) x 484mm deep (495mm with mounting bracket). HRV10M Q Plus 800mm wide x 675mm high (excluding ports) x 470mm deep (481mm with mounting bracket).

Weight: HRV10 Q Plus – 17.5kg,
HRV10M Q Plus – 37kg.

Finish: HRV10 Q Plus – Black EPP,
HRV10M Q Plus – White Paint.

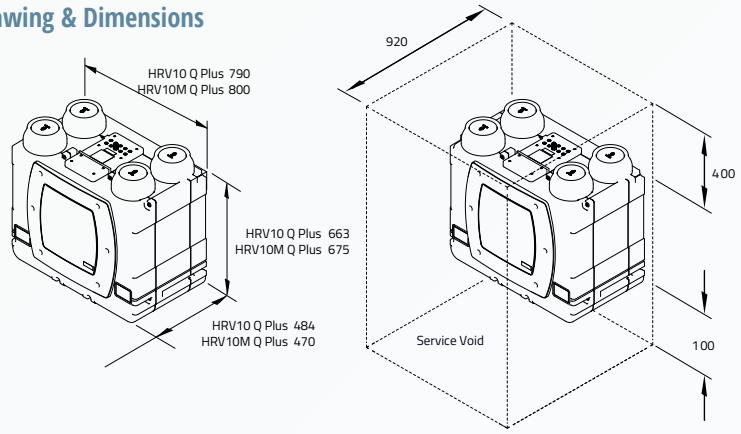
Materials: Expanded polypropylene (EPP), Heat Exchanger – Polystyrene, Internal Insulation – Closed cell foamed, Nitrile rubber, class 'O' fire rating, Standard filters: Grade ISO Coarse 60% (G4) pleated panel filters. NB: Except HRV10.25M Q Plus Housing – Zintec sheet steel, powder coated.

Guarantee period: 3 years (UK only).

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

Installation: Install in accordance with regulatory requirements, such as the Ventilation: Approved Document F and the Residential Ventilation Association recommendations.

Drawing & Dimensions



Dimensions in mm

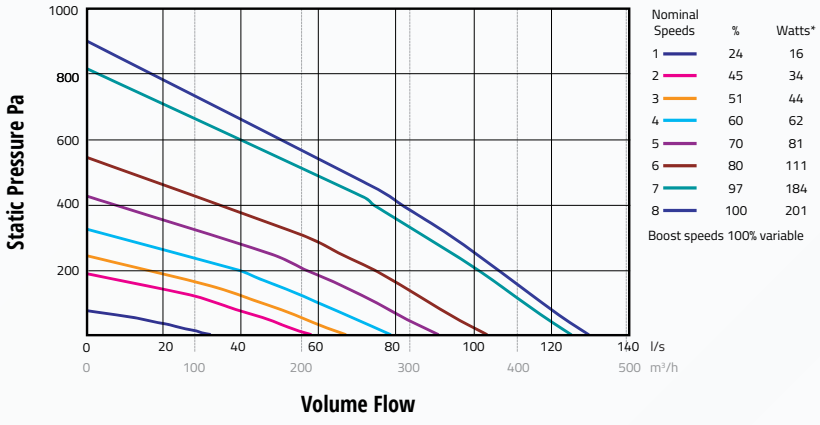
Performance

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 + 1 additional wet room	100% variable	0.57	91%	0.55	90%
Kitchen + 2 additional wet rooms	100% variable	0.52	90%	0.57	90%
Kitchen + 3 additional wet rooms	100% variable	0.53	90%	0.65	89%
Kitchen + 4 additional wet rooms	100% variable	0.59	89%	0.76	88%
Kitchen + 5 additional wet rooms	100% variable	0.65	89%	0.9	87%
Kitchen + 6 additional wet rooms	100% variable	0.74	88%	1.09	86%
Kitchen + 7 additional wet rooms	100% variable	0.88	87%	1.27	85%

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
HRV10 Q Plus	41%	44l/s @ 22Pa	27	38	27	24
	69%	75l/s @ 51Pa	36	48	37	34
	100%	108l/s @ 100Pa	43	57	51	48
HRV10M Q Plus	41%	44l/s @ 22Pa	27	38	23	20
	69%	75l/s @ 51Pa	36	48	33	30
	100%	108l/s @ 100Pa	43	57	46	43

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.