

# HRV1.25 Q Plus

## Ultra energy efficient Heat Recovery Ventilation unit

### 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.

Recognised and listed in the UK Product Characteristics Database and includes intelligent humidity options through controller options.

MVHR



### Features & Benefits

- Extremely compact
- Extremely low Specific Fan Power; down to 0.59 W/l/s
- Highly efficient heat exchanger; up to 88%
- Airflow up to 158l/s (568 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® HRV (TP518) status indicator and aura-t™ controller
- Fitted with removable filter covers on the front panel
- Standard - Volt free switching control
- Optional - Switch live control available with via Relay (TP505)

#### Eco B Models:

- Compatible with Eco-aura range; aurastat®, auramode® and aura-t™ controllers and auralite® HRV (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)
- Standard - Volt Free switching and switch live control

## Product Codes

HRV1.25 Q Plus -

**TP406A** - Energy Rating A

HRV1.25 Q Plus HMB Eco auralite® & aura-t™ ready -

**TP406HMB/544** (left hand config) or

**TP406HMB/RH** (right hand config) - Energy Rating A

HRV1.25 Q Plus B Eco-aura controls ready -

**TP416B/LH** (left hand config) or

**TP416B/RH** (right hand config) - Energy Rating A

Filters (Basic and Eco Versions):

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

CE and UKCA 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)

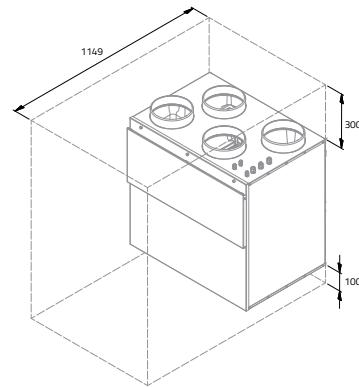
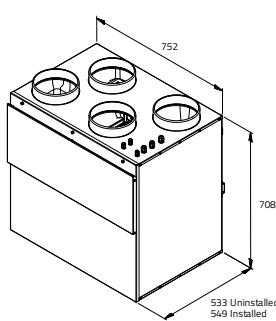
**Electrical:** 230V ~ 50/60Hz, 3A fuse

**Installation:** To be installed accordance with the relevant and applicable building regulations.

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

**Acoustics:** Full acoustic data available online [www.titon.com/acoustics](http://www.titon.com/acoustics).

## Drawing & Dimensions



Dimensions in mm

## Performance

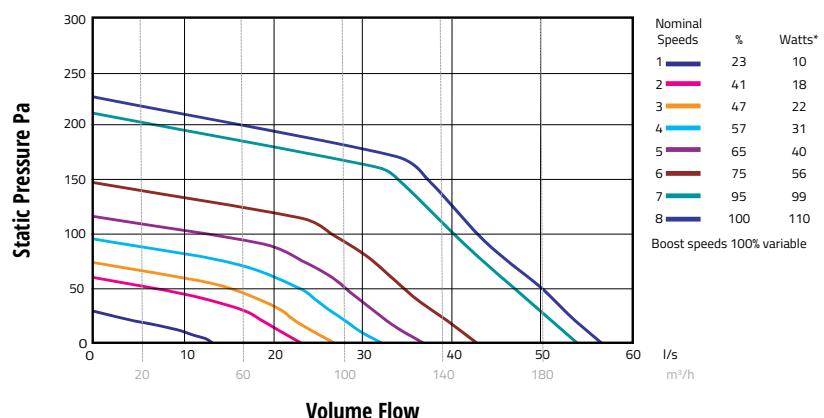
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at [www.titon.com](http://www.titon.com).

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	0.59	88%	0.68	87%	
Kitchen + 2 additional wet rooms	100% variable	0.67	87%	0.9	85%	
Kitchen + 3 additional wet rooms	100% variable	0.82	85%	1.21	84%	
Kitchen + 4 additional wet rooms	100% variable	1.04	84%	-	-	

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	
HRV1.25 Q Plus	40%	22l/s @ 10Pa	28	41	20	17	
	61%	34l/s @ 23Pa	36	49	28	25	
	100%	56l/s @ 50Pa	43	57	36	33	

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