## 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).

aurastat®   auralite®   auramode®   aura-t™
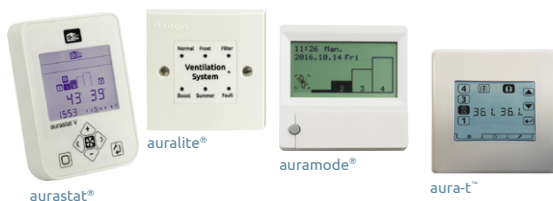
Features & Benefits

→ **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 81l/s (290m³/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 (subject to limitations, additional software requirements and specification with any order)**

Product Codes

HRV1.6 HE *Q Plus* HMB
Eco auralite® & aura-t™ ready -
TP439HMB/512 (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+
TP429BC (Cold Climate) - Energy Rating A+

Filters:
XP2010671/099 - ISO Coarse 55% (G3) filters fitted
as standard (UK only).
XP2010897/099 - 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)
EN 60335-1:2002/A2:2006, EN 60335-2- 80:2003/
A1:2004.

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
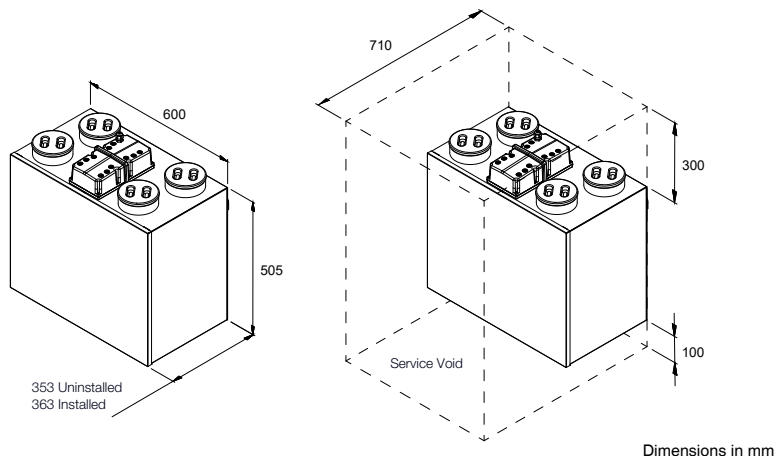subject to local environment - see product manual.

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

Drawing & Dimensions

710
600
300
505
100
353 Uninstalled
363 Installed
Service Void
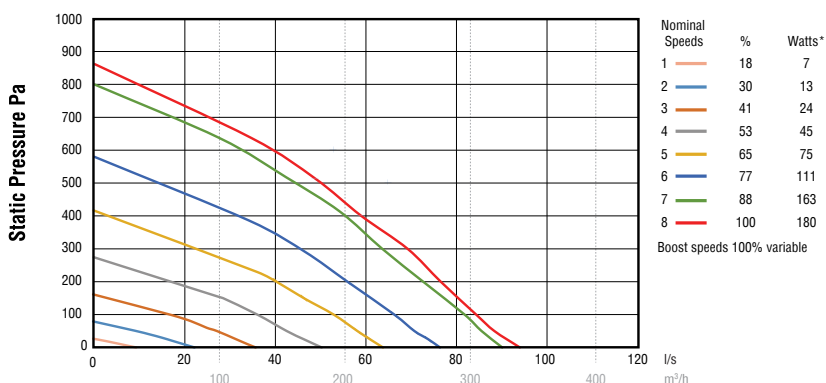
Dimensions in mm

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	0.62	90%	0.66	89%
Kitchen + 2 additional wet rooms	100% variable	0.63	89%	0.79	89%
Kitchen + 3 additional wet rooms	100% variable	0.73	89%	0.96	88%
Kitchen + 4 additional wet rooms	100% variable	0.87	89%	1.22	88%
Kitchen + 5 additional wet rooms	100% variable	1.02	88%	1.46	87%
Kitchen + 6 additional wet rooms	100% variable	1.19	88%	-	-
Kitchen + 7 additional wet rooms	100% variable	1.46	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

Nominal Speeds	%	Watts*
1	18	7
2	30	13
3	41	24
4	53	45
5	65	75
6	77	111
7	88	163
8	100	180

Boost speeds 100% variable

*@FID (0 Pa)
All units offer 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
HRV1.6 HE *Q Plus* Eco	41%	38l/s @ 17Pa	33	42	18	15
	65%	60l/s @ 54Pa	44	50	30	27
	100%	86l/s @ 100Pa	54	63	43	40

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.