HRV20 HE Q *Plus*

Ultra energy efficient Heat Recovery Ventilation unit

For use in large dwellings

The new HRV20 HE *Q Plus* continuously running whole-house ventilation unit with heat recovery has been specifically designed to expand Titon's current HRV range by offering airflows of up to 178 l/s (640 m³/h).

Combining extremely low power consumption and a highly efficient heat exchanger (up to 92%) specifically designed to enhance SAP performance via Appendix Q and can be incorporated into larger apartments or dwellings.

Offering 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 aura-t™ (HMB) fitted integral (as standard on HMB models only), aura-t™ (B) fitted integral or standalone, auramode®, aurastat® controllers and auralite® status indicator (B models only).


aurastat®

auralite®


auramode®


aura-t™

Features & Benefits

- **Highly versatile compact unit**
- **Extremely low Specific Fan Power of 0.48 W/l/s**
- **Highly efficient heat exchanger; up to 92%**
- **Airflow up to 178 l/s (640 m³/h) at 100 Pa**
- **Accepts 200mm diameter ducting**
- **Intelligent frost protection, stepped reduction of supply air rates prevents HRV unit from freezing**
- **ISO Coarse 65% (G4) bypass filter set fitted as standard. ISO Coarse 65% (G4)/ISO ePM1 75% (F7) available on request.**
- **Fully adjustable boost overrun timer 0-60 minutes; can be used with non-latching (momentary) switch to prevent unit from being accidentally left in boost mode**
- **Volt free switching control**
- **Intelligent controller, quick and easy to commission**
- **aura-t™ fitted on board as standard for HMB models and optional for B models**
- **Quick fix mounting bracket**
- **IP33 rating**
- **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**
- **Available in left and right handed configurations**

Eco Versions:

- **Intelligent Summer Bypass & humidity controls**
- **SUMMERboost® facility**

Eco HMB Models:

- **Fitted with aura-t™ controller on board 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)**
- **BMS compatible via RS485**

Product Codes

HRV20 HE *Q Plus* HMB Eco aura-t™ ready - (Filter Door)
TP652HMB/544 - (left hand config) or
TP652HMB/RH - (right hand config) - Energy Rating A

HRV20 HE *Q Plus* B Eco-aura controls ready - (Filter Door)
TP653B/LH (left hand config) or
TP653B/RH (right hand config) - Energy Rating A+
TP653BC (Cold Climate) - Energy Rating A+

Filters:
XP2010561 - ISO Coarse 65% (G4) bypass filter set fitted as standard.
XP2010929 - ISO Coarse 65% (G4)/ISO ePM1 75% (F7) 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: HRV20 HE *Q Plus* - 752mm wide x 708mm high (excluding ports) x 533mm deep (549mm with mounting bracket).

Weight: 46kg.

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: ISO Coarse 65% (G4).

Guarantee period: 3 years (UK only).

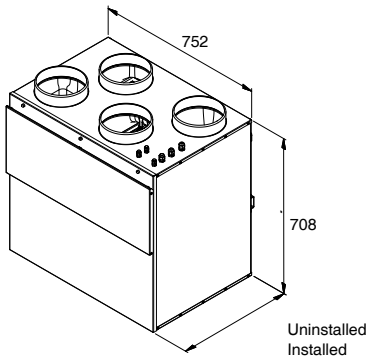
Electrical: 230V ~ 50/60Hz, 5A fuse.

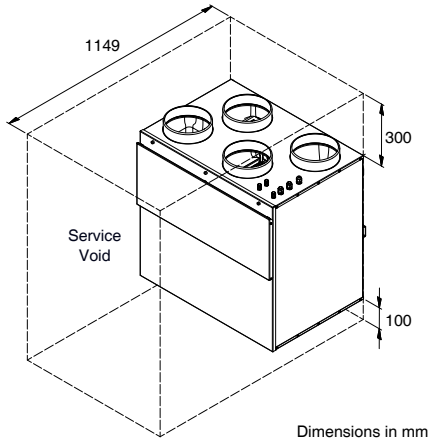
Installation: Install in accordance with regulatory requirements, such as the Domestic Ventilation Compliance Guide (England & Wales) and the Residential Ventilation Association recommendations.

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

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

Drawing & Dimensions





Dimensions in mm

Performance

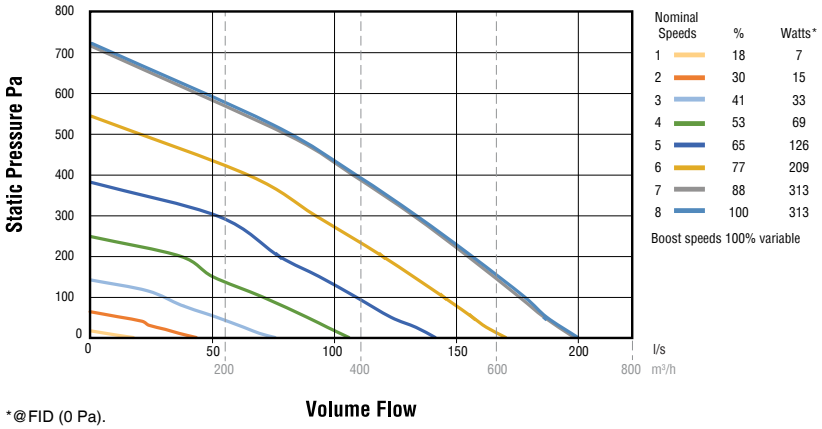
The figures and compliance levels below relate to current SAP requirements. Revised SAP guidance will have an effect on performance and up-to-date figures can be found on the relevant product page at www.titon.com.

Exhaust terminal configuration*	Fan speed setting	SFP (W/l/s)	Heat exchange efficiency (%)	SFP (W/l/s)	Heat exchange efficiency (%)
		2009		2012	
Kitchen + 1 additional wet room	100% variable	0.52	92%	0.52	91%
Kitchen + 2 additional wet rooms	100% variable	0.48	91%	0.53	91%
Kitchen + 3 additional wet rooms	100% variable	0.48	91%	0.58	90%
Kitchen + 4 additional wet rooms	100% variable	0.53	90%	0.68	90%
Kitchen + 5 additional wet rooms	100% variable	0.58	90%	0.79	89%
Kitchen + 6 additional wet rooms	100% variable	0.66	90%	0.95	89%
Kitchen + 7 additional wet rooms	100% variable	0.76	89%	1.15	88%

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.

Acoustic Data

Product	% of Max flow	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical
			Induct Inlet	Induct Outlet	Casing Breakout	Casing Breakout
HRV20 HE *Q Plus* Eco	41%	65l/s @ 18Pa	33	43	27	24
	65%	116l/s @ 51Pa	46	58	42	39
	100%	170l/s @ 100Pa	57	70	49	46

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.