

HRV10.25 Q Plus - Enthalpy

Ultra energy efficient Heat Recovery Ventilation unit

For use in large dwellings

The HRV10.25 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 it can be incorporated into larger apartments or dwellings.

The counter flow enthalpy heat exchanger has a selective polymer membrane film to achieve low air leakage levels while providing moisture recovery from the exhaust air. These models are ideal for living areas with low humidity, avoiding frost build up at low temperatures, they also have an antimicrobial membrane and long life cycle.

The Eco versions offer a 100% airflow diverting Summer Bypass. It also includes intelligent humidity options and can be fitted with auralite® status indicator, aura-t™, auramode® and aurastat® controllers.

MVHR

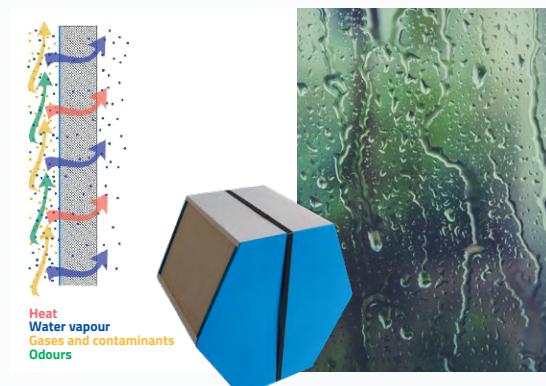


Features & Benefits

- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 161l/s (581 m³/h) at 100 Pa
- Lightweight EPP construction giving high levels of thermal insulation
- Accepts 150mm or 125mm diameter ducting
- Independent fan adjustment
- Intelligent automated control of summer bypass, frost protection and humidity functions
- 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 150-125mm low resistance insulated port adaptors included as standard
- EPP Lightweight for easy handling
- Volt free switching control
- Pleated ISO Coarse 65% (G4) filters as standard
- Quick fix mounting bracket
- IP32 rating
- Patented features
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing the risk of Toxic Home Syndrome

Eco BE 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

HRV10.25 Q Plus B Eco Enthalpy

Eco-aura controls ready -

TP482BE - Energy Rating A

Filters:

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

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: HRV10.25 Q Plus - 790mm wide x 663mm high (excluding ports) x 470mm deep (481mm with mounting bracket).

Weight: HRV10.25 Q Plus - 21.5kg.

Finish: HRV10.25 Q Plus – Black EPP.

Materials:

Expanded polypropylene (EPP), Heat Exchanger – Selective polymer membrane film. Internal Insulation – Closed cell foamed, Nitrile rubber, class 'O' fire rating, Standard filters: Grade ISO Coarse 60% (G4) pleated panel filters. NB:

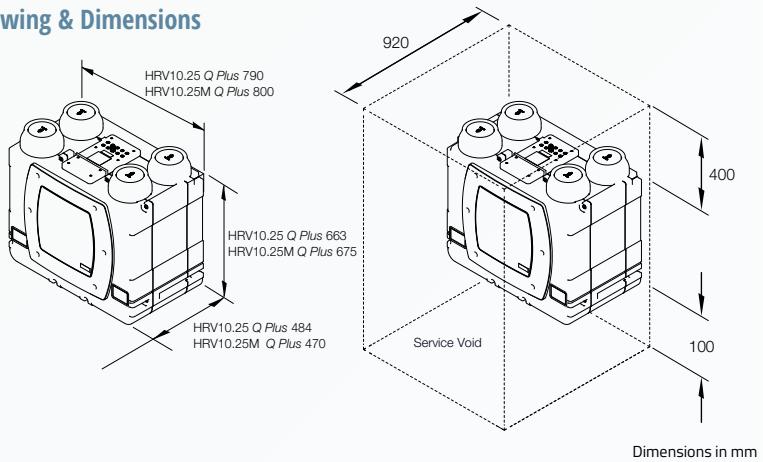
Guarantee period: 3 years (UK only)

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.

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

Drawing & Dimensions



Dimensions in mm

Heat Cell

Technical Data

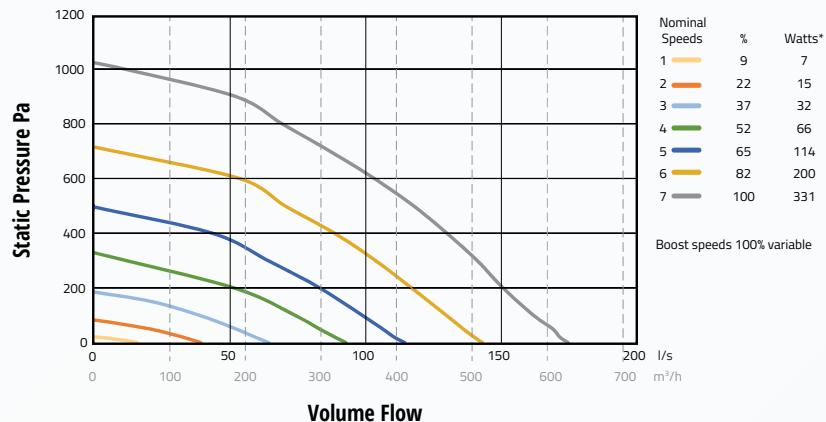
(Typical conditions at 140 m³/h)

- Heat change rate 80%
- Degree of moisture change 70%
- Leakage at 100 Pa < 1%
- Temperature stability - 25°C up to 65°C

Features & Benefits

- No transfer of gases or pollutants - only heat and water vapour transferred by the membrane
- Long life cycle - permanent transmission parameters
- Minimum leakage
- Optimum flow behaviour, low pressure loss
- Frost- and heat-proof
- High, sensitive and latent transmission rate
- Antimicrobial (Microban® - integrated hygiene protection)
- Can be cleaned using water
- European manufactured heat cell

Nominal Fan Performance



*@FID (0 Pa)
100% variable speed control. Performance curves for Eco version.

Acoustic Data

Product	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical
		Induct Inlet	Induct Outlet	Casing Breakout	
HRV10.25 Q Plus Enthalpy	56l/s @ 12Pa	32	47	35	32
	95l/s @ 44Pa	43	62	45	42
	144l/s @ 100Pa	48	70	54	51

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.