

HRV2 Q Plus - Enthalpy

Ultra energy efficient Heat Recovery Ventilation unit



For use in medium to large sized dwellings

The HRV2 Q Plus MVHR unit gives cutting edge performance usually only associated with much larger and more costly products.

The combination of very low power consumption and a highly efficient heat exchanger is small enough to be easily incorporated into medium sized 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. They also include intelligent humidity options and can be fitted with the auralite® status indicator, aura-t™ (HMBE and BE models), auramode® and aurastat® controllers (BE models only).



Features & Benefits

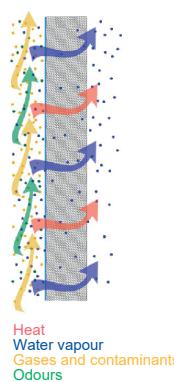
- Constant volume fans
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 89 l/s (318 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Accepts 125mm or 150mm diameter ducting, no adaptors required
- Independent fan adjustment
- Intelligent automated control 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
- Volt free switching control
- Quick fix mounting bracket
- IP32 rating
- On board aura-t™ option
- Patented
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option.
- 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 HMBE Models:

- Compatible with auralite® status indicator

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



Product Codes

HRV2 Q Plus HMB Eco Enthalpy auralite® & aura-t™ ready -

TP401HMBE - Energy Rating A

HRV2 Q Plus B Eco Enthalpy

Eco-aura controls ready -

TP411BE/LH (left hand config) or

TP411BE/RH (right hand config) - Energy Rating A+

Filters:

Filters (Eco Versions):

XP40133/099 - ISO Coarse 55% (G3) filters fitted as standard (UK only).

XP46133/099 - ISO Coarse 60% (G4) filters fitted on request (Europe fitted as standard).

XP46222/099 - ISO Coarse 55% (G3)/ISO ePM1 55% (F7) filters available on request.

XP46232/099 - ISO Coarse 60% (G4) filters/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: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)

Weight: 27.5kg

Finish: White Paint

Materials:

Housing: Zintec sheet steel housing, powder coated white

Internals: 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 55% (G3) synthetic filters.

Guarantee period: 3 years (UK only)

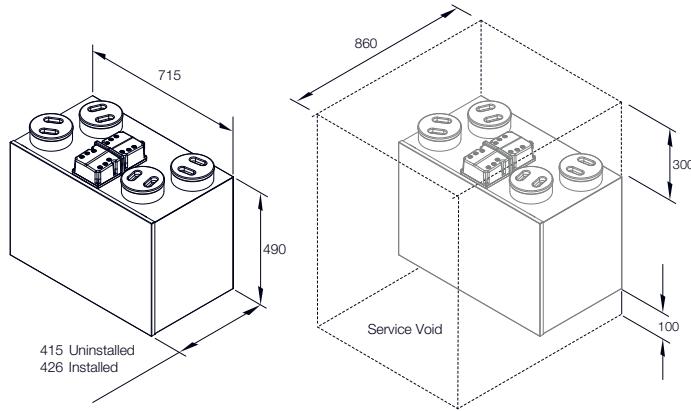
Electrical: 230V ~ 50/60Hz, 3A fuse

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



Dimensions in mm

Heat Cell

Technical Data

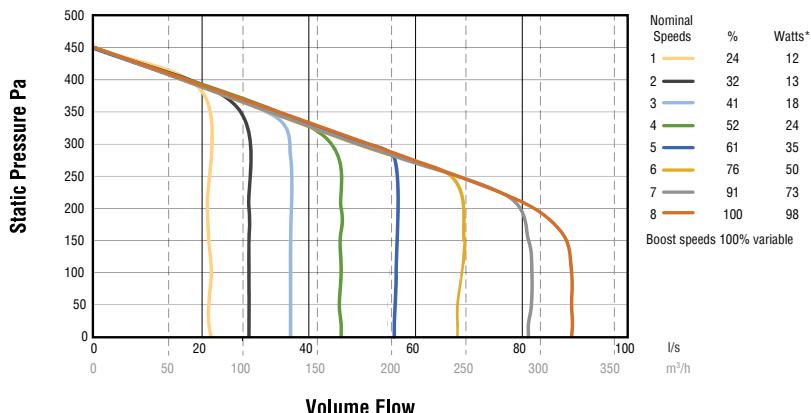
(Typical conditions at 140 m³/h)

- 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)

All units offer 100% variable speed control.

Acoustic Data

Product	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical	
		Induct Inlet	Induct Outlet	Casing Breakout	Casing Breakout	
HRV2 Q Plus Eco Enthalpy	27l/s @ 8Pa	20	33	16	13	
	57l/s @ 56Pa	35	51	32	29	
	81l/s @ 100Pa	41	56	37	34	

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.