

HRV3 Q Plus - Enthalpy

Ultra energy efficient Heat Recovery Ventilation unit

For use in large dwellings

Suitable for larger dwellings, the HRV3 Q Plus continuously running whole-house ventilation unit with heat recovery gives cutting edge performance usually only associated with much larger and more costly products.

Combining extremely low power consumption and a highly efficient heat exchanger it can be incorporated into larger apartments as it is in medium to large 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® HRV status indicator, aura-t™, auramode® and aurastat® controllers.

MVHR

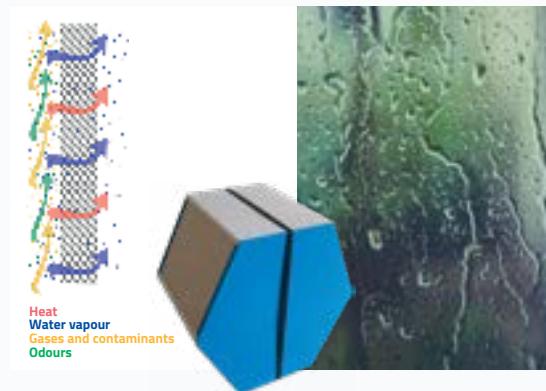


Features & Benefits

- Constant volume fans
- Highly efficient enthalpy counter flow heat exchanger
- Airflow up to 118l/s (423 m³/h) at 100 Pa
- Intelligent controller, quick and easy to commission
- Fully adjustable boost overrun timer 0- 60 minutes; use with non-latching (momentary) switches to prevent unit from being accidentally left in boost mode
- Accepts 125mm or 150mm diameter ducting, no adaptors required
- Intelligent automated control of summer bypass, frost protection and humidity functions
- Setback facility to reduce ventilation where local regulations allow
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option
- 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
- Available in left and right handed configurations

Eco BE 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)
- Available in left and right handed configurations
- BMS compatible via RS485 (subject to limitations, additional software requirements and specification with any order)



Product Codes

HRV3 Q Plus B Eco Enthalpy
 Eco-aura controls ready -
TP412BE/LH (left hand config) or
TP412BE/RH (right hand config) - Energy Rating A

Filters:
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 and UKCA marked.

Specification

Dimensions: 715mm wide x 490mm high (excluding ports) x 415mm deep (426mm with mounting bracket)

Weight: 28kg

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)

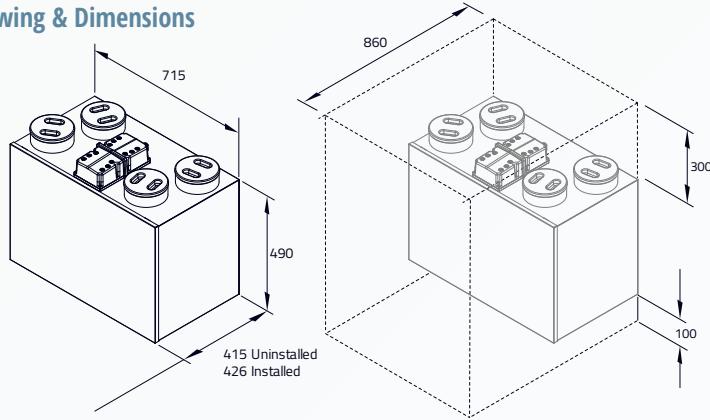
Electrical: 230V ~ 50/60Hz, 5A fuse

Installation: Install in accordance with regulatory requirements, such as the Ventilation: Approved Document F 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

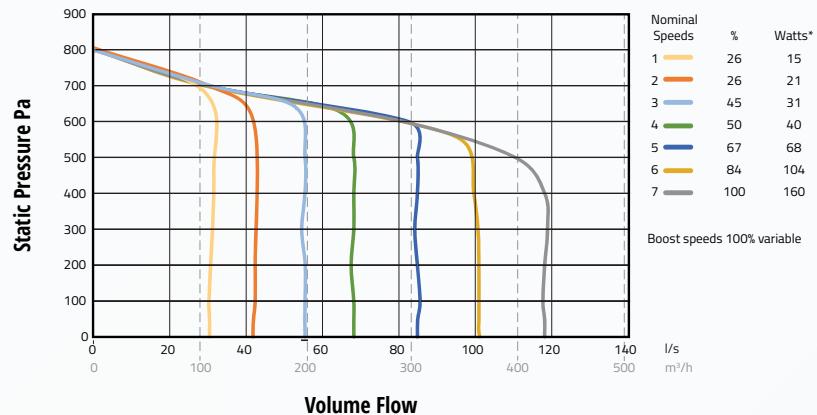
(Typical conditions at 140 m³/h)

- 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)
 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	Casing Breakout	
HRV3 Q Plus Enthalpy	36l/s @ 10Pa	25	35	21	18	
	73l/s @ 48Pa	36	49	29	26	
	108l/s @ 100Pa	45	57	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.