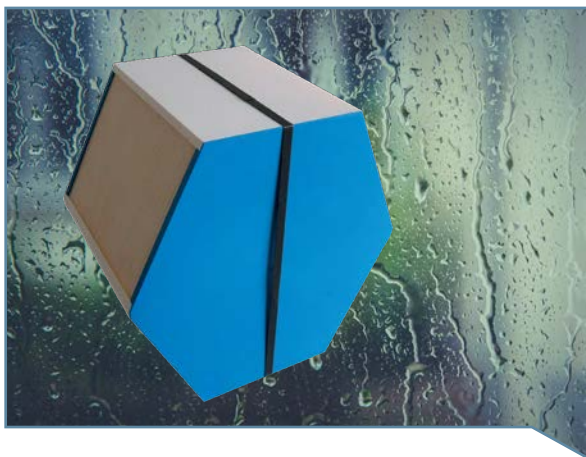


HRV3 Q Plus - Enthalpy

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.

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 auralite® status indicator or the auramode® and aurastat® controllers.



Eco HMBE Version



Eco BE Version



aurastat®



auralite®



auramode®



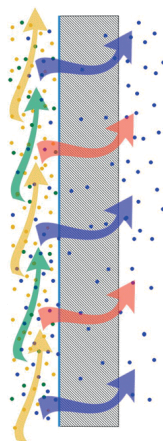
aura-t™

Features & Benefits

- Constant volume fans
- Highly efficient enthalpy counter flow heat exchanger
- 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
- Lightweight for easy handling
- Volt free switching control
- ISO Coarse 55% (G3) filters as standard, ISO Coarse 60% (G4) as an option
- Re-usable plastic filter frames
- Quick fix mounting bracket
- Patented
- Independent fan adjustment
- Effective in reducing pollutants in the home and improving Indoor Air Quality (IAQ), therefore reducing

Eco BE Models:

- Compatible with Eco-aura range; aurastat® auramode® and aura-t™ controllers and auralite® (TP519) status indicator.
- Duct heater control (requires independent power supply)
- Available in left and right handed configurations
- BMS compatible via RS485



Heat
Water vapour
Gases and contaminants
Odours

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:

XP40133/99 - 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: 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.

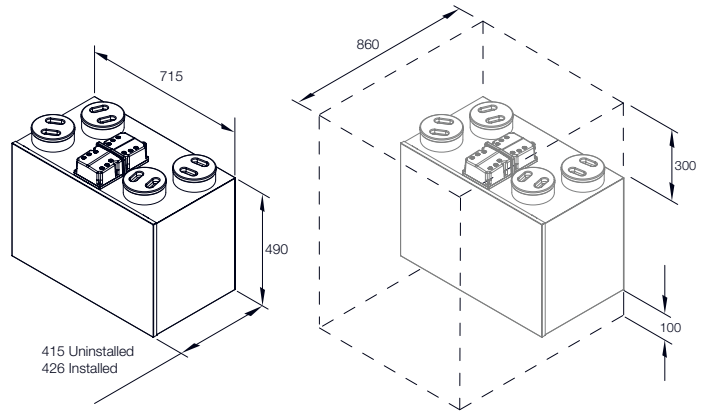
Guarantee period: 3 years (UK only)

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

Installation: Install in accordance with regulatory requirements, such as the 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.

Drawing & Dimensions



Heat Cell

Technical Data

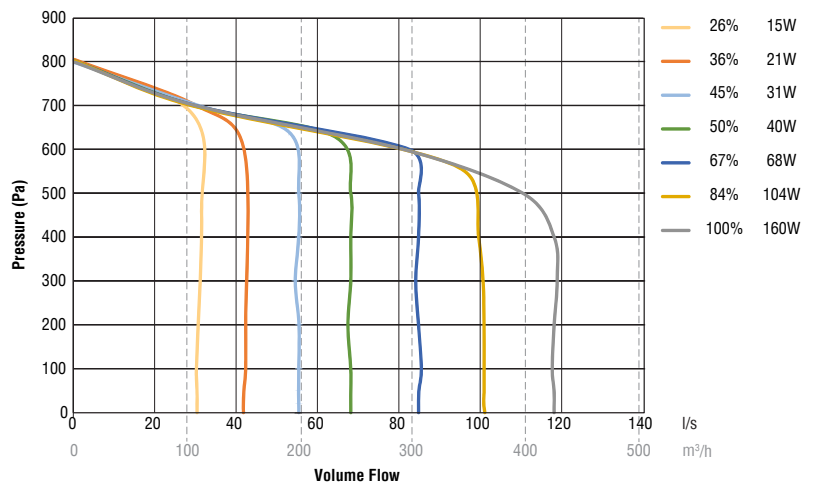
(Typical conditions at 140m³/h)

- 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 steam are 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



Acoustic Data

Product	Airflow	dB(A) @ 3m Hemispherical			dB(A) @ 3m Spherical
		Induct Inlet	Induct Outlet	Casing Breakout	Casing Breakout
HRV3 Q Plus Eco	36l/s @ 10Pa	25	35	21	18
	73l/s @ 48Pa	36	49	29	26
	108l/s @ 100Pa	45	57	37	34