

Enthalpy Exchanger

Highly efficient, humidity transferring heat exchanger

Features & Benefits

- No transfer of gases, odours or pollutants – only heat and moisture are transferred by the membrane
- Minimum leakage of airflow
- Low pressure loss
- Frost and heat resistant
- Heat: sensible and latent transmission rate
- Antimicrobial using Microban for integral hygiene protection
- Can be cleaned using water

Technical Description

The new Vent-Axia moisture heat exchanger (Enthalpy Exchanger) is the ideal alternative to the standard heat exchanger found in the Lo-Carbon Sentinel Kinetic range of MVHR systems.

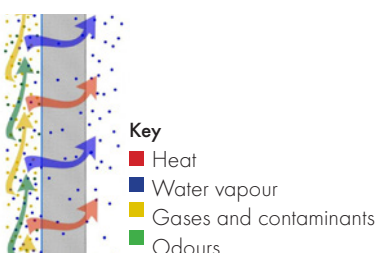
The new Enthalpy Exchanger has no impact on the sound performance of the MVHR system.

In colder climates, the Enthalpy Exchanger provides a comfortable level of humidity through the additional moisture recovery from the exhaust air. The separation of the reverse flows of exhaust air and outside air is achieved by a selective polymer membrane. Odours from kitchens and bathrooms do not pass through the membrane and are exhausted to outside.

Technical Data

- Heat supply rate: 80%
- Degree of moisture change: 70%
- Pressure loss: 30 Pa
- Leakage at 100 Pa: 0.5%
- Temperature stability: -25°C up to 65°C

Moisture/ Airflow diagram



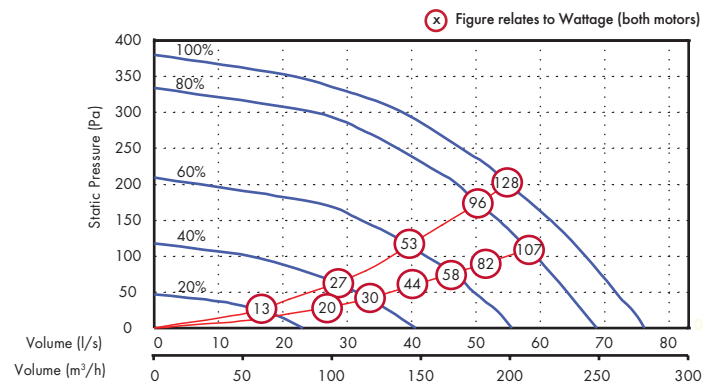
Enthalpy Exchanger Performance

Indoor / Outdoor Temperature °C	Airflow m³/h (l/s)	Temperature Efficiency %	Moisture returned to dwelling %	Indoor Relative Humidity %
21 / 4 (Winter)	89 (25)	86	77	50
21 / 4 (Winter)	143 (40)	81	66	50
21 / 4 (Winter)	233 (65)	74	58	50
25 / 35 (Summer)	89 (25)	85	74	50
25 / 35 (Summer)	143 (40)	81	66	50
25 / 35 (Summer)	233 (65)	75	55	50

Fan Performance

Fan speeds are fully adjustable within the performance range.

Lo-Carbon Sentinel Kinetic, Weight: 17.5kg



Lo-Carbon Sentinel Kinetic Plus, Weight: 28.5kg

