

AirStream 125HRV

Intelligent balanced heat recovery

HOMESOL
HEALTHY HOME SOLUTIONS
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AirStream Benefits



Full house solution - fresh air ventilation supply and bathroom extraction in a single unit



Heat recovery core - reduced energy losses through up to 90% recovery of indoor heat



Intelligent controls - built-in controls for fully automatic operation and improved efficiency

Balanced Ventilation

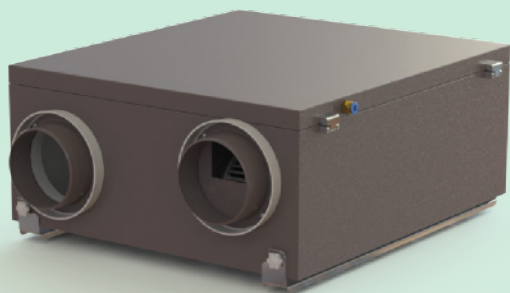
Great indoor air quality is one of the essential requirements for your home and health.

Proper ventilation requires both extraction of the polluted air from inside the house and the supply of fresh air to replace it.

AirStream Heat Recovery units provide the best of both - removing pollutants at their source, lowering indoor humidity levels to stop the growth of mould, and replacing the extracted air with fresh, filtered, and heat-recovered air - in order to achieve the best possible air quality inside your home.

Our System

Unlike common energy and heat recovery systems Airstream is the only full house system that is small enough to fit most apartment designs, managed by smart sensors and EVOAQ software to fully balance the home environment, recover heat energy, and be as simple as possible for the owner to use. No need to turn the system off because of overly complicated menus and seasonal settings.

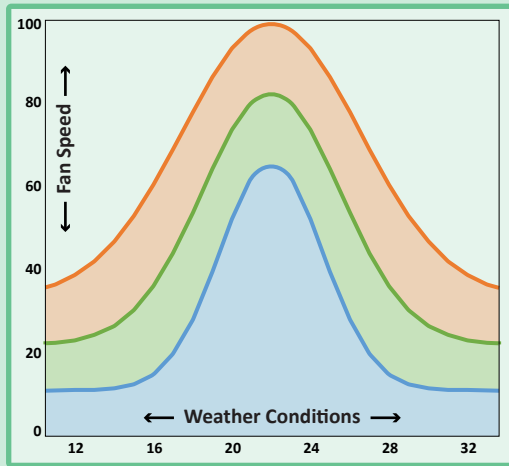


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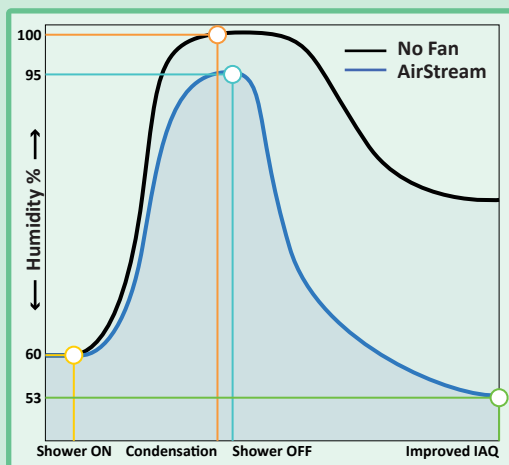
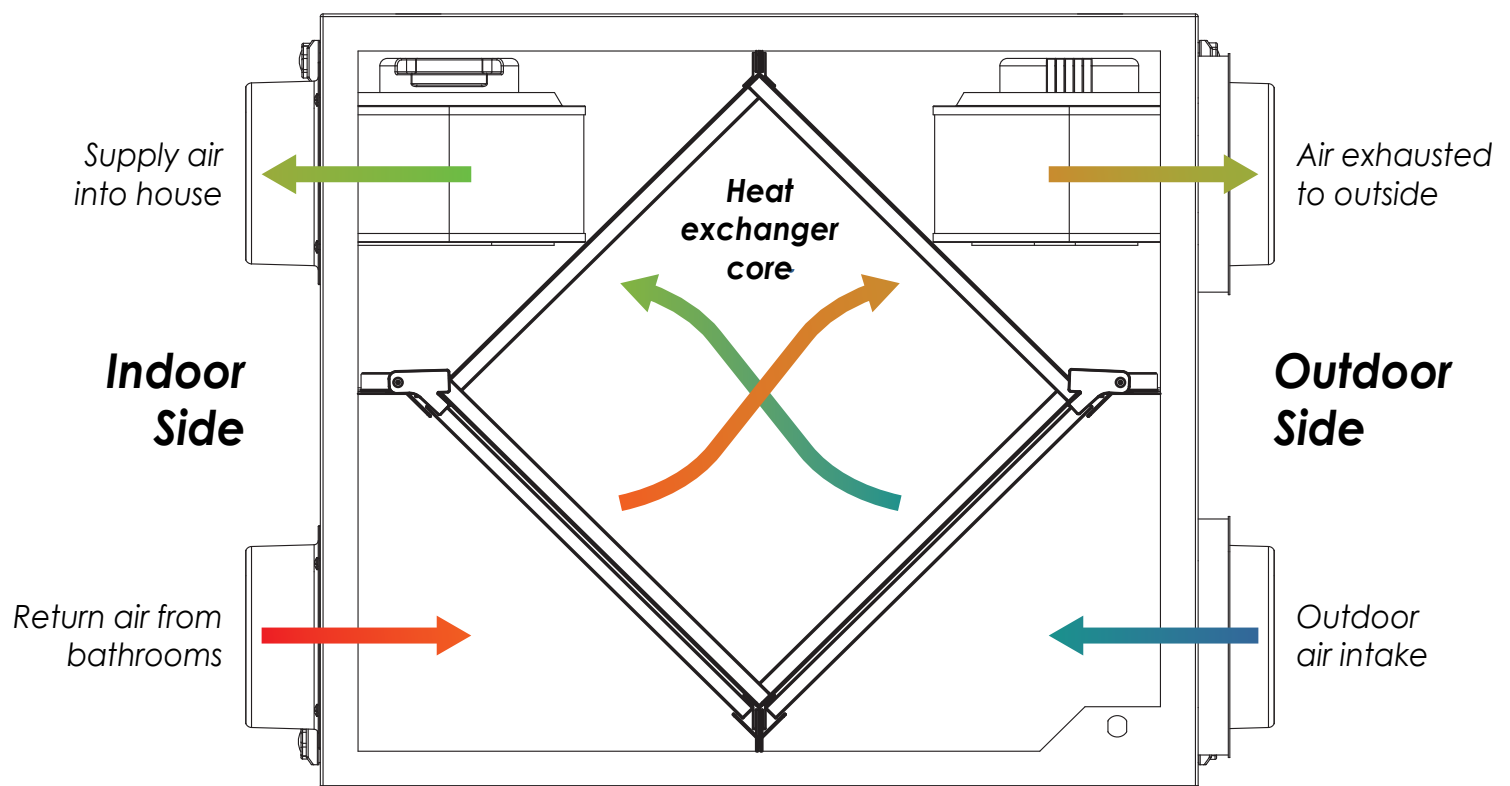


The ventilation side of things

AirStream is designed to provide fresh air ventilation in a balanced mode with respect to the extraction side. Fresh air is taken from outside and passed through the heat exchanger core; inside the core heat energy from the extracted air is transferred to the fresh air, tempering this air on its way into the house.

Integrated EVOAQ sensors and software monitor the incoming air and determine the optimal airflows to achieve optimal indoor air quality and thermal comfort; as the temperature and humidity levels of the fresh air improve, the unit speeds up to bring in more of this air.

Communication with the extraction side also ensures the airflows are adjusted in tandem, to keep the system balanced as a whole.



The extraction side of things

The AirStream system uses intelligent EVOAQ control software to continuously extract polluted air from the bathrooms and service areas of the house at low levels.

Built-in sensors constantly monitor the humidity levels of the return air; when a sudden increase in humidity is detected, the unit speeds as needed in order to remove the unwanted moisture from the house. Optional boost switches also make the unit extract at elevated levels for things such as odour control.

Extraction rates are communicated to the ventilation side of the unit, which responds accordingly to keep the system balanced as a whole.


MODEL	EVOAS-125EC
Fan Construction	Metal PC
Core Type	HRV (Aluminium)
Voltage/Frequency	230VAC 50Hz
Peak Current (A)	0.018 ~ 1.17
Fan Speed (RPM)	600 ~ 2000
Air Flow (m ³ /hr)	63 ~ 393
Air Flow (L/s)	17 ~ 109
Pressure (Pa)	379
Max Power (W)	125
Sound (dB(A) Av)	29
Max Operating Temp (°C)	60
IP Rating	IP44
Climate Class	T
Compliance	AS/NZS 60355.2.80 T

ENERGY EFFICIENCY


AirStream EVOAS-125HRV

A+ A B C D E F G **A**

29 dB



393 m³/hr



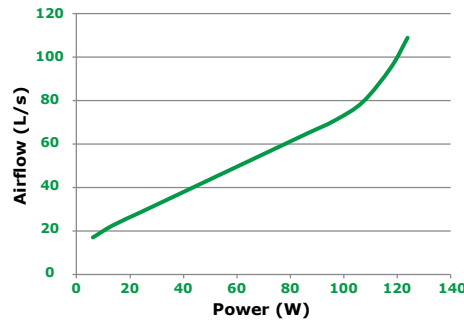
Model	Voltage (V/Hz)	Power (W)	Speed (RPM)	Airflow (m ³ /hr)
EVOAS-125HRV	230/50	3 ~ 125	600 2000	63 393

Specific Fan Power (SFP)
0.487 Watts per L/s

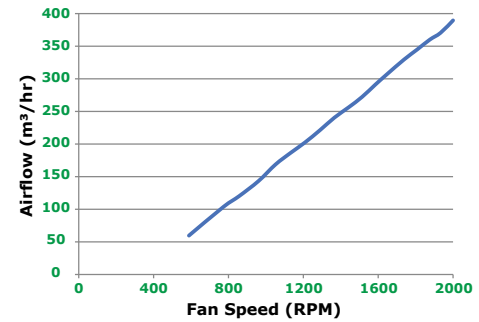
Performance Curve



Energy Curve



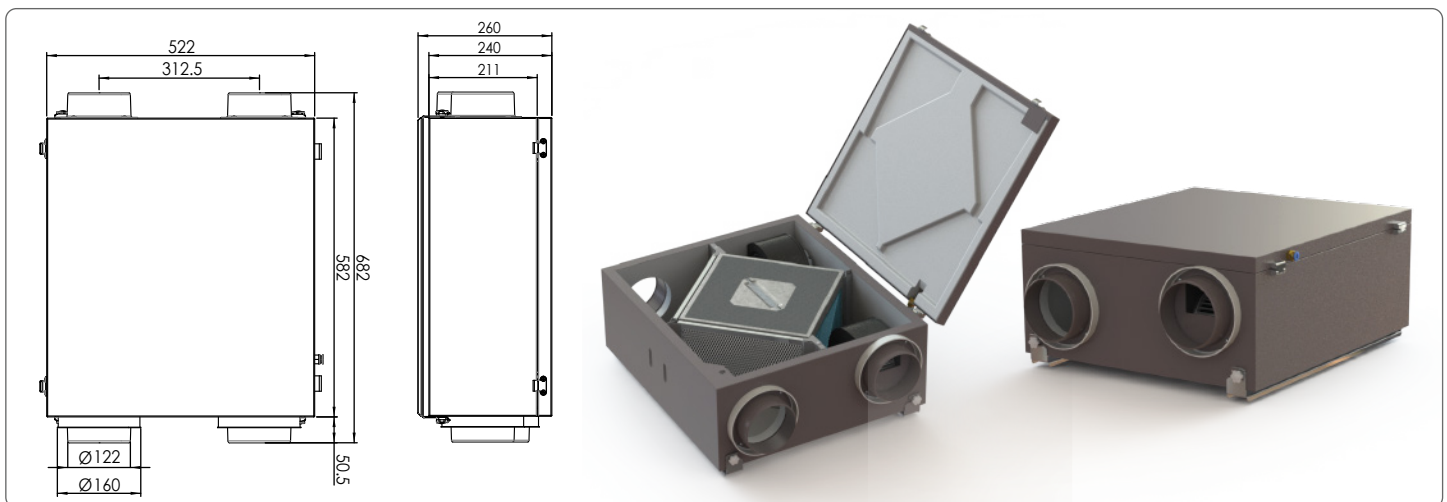
Flow rates RPM



Sound Performance Parameters

	dBa @ 3m	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Total SPL
600 RPM	24.9	18	17	19	17	18	15	20	21	28.4
1200 RPM	27.9	19	21	23	24	22	24	21	23	31.4
2000 RPM	32	21	22	27	29	27	29	27	22	35.5

Unit Dimensions





Made for all buildings

The AirStream is designed to suit all types of buildings; from its small size which allows it to be installed in apartments and houses with limited roof spaces, to its modular design to make installation of both the unit and external controls simple, to the built-in controls that allow for easy calibration.

The specially treated thermal exchange core of the system controls the amount of moisture being introduced into the house; unwanted moisture is expelled, resulting in better indoor air quality and a healthier home. Moisture from bathrooms is quickly and constantly extracted to ensure dry bathrooms and the heat energy recirculated efficiently.

Airflow calibration - Example

Minimum airflows depend on 2 things: minimum ventilation rates, and minimum extraction rates. The higher of the two determines the minimum airflows for the house.

Example House

Minimum ventilation rate

G4 and Home Star require 0.35 Air Changes per Hour
Area of habitable spaces is 116m² with 2.4m high ceilings
→ 116m² * 2.4m * 0.35 = 97.4m³/hr = **27 L/s**

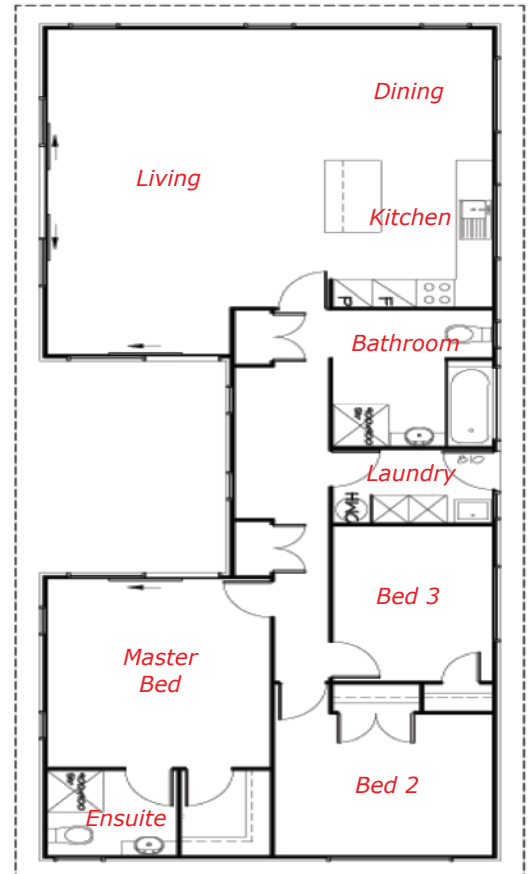
Minimum extraction rate

G4 requires 15L/s per service area (bathrooms/ensuites, toilets and laundries)
This house has 2 bathrooms and 1 laundry
→ 3 * 15 = **45 L/s**

Minimum system airflow

As the extraction rate is higher (45 > 27), upon installation in this house, the system would need to be set to 45 L/s minimum rate.

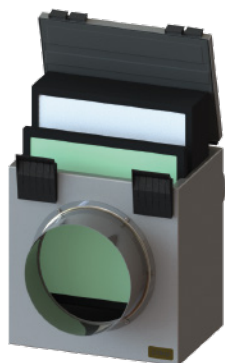
This means that both fans will need to run at 45 L/s or higher at all times.



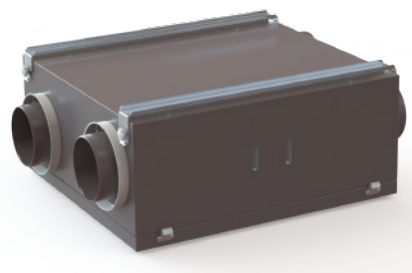
Optional extras available for the AirStream



ERV Core



Filter Box



Low-flow Unit



VOC Control

Contact Homesol for more details on these products and more

For more information, visit www.homesol.co.nz