

ECOVOLT ZERO1

DE-CENTRALISED MVHR

The **Zero 1** is a de – centralised ductless mechanical ventilation system with heat recovery. With a heat recovery efficiency of up to 90% and extremely low running costs of only 6 watts on high speed, the Zero1 is very energy efficient for new and retro-fit air tight buildings. . Excellent indoor air quality is achieved as each Zero1 unit can deliver a maximum ventilation rate of 60m³/h. The Zero1 uses a brushless bi – directional motor and has 3 modes of operation, fresh air mode, exhaust air mode and cycle mode. In the cycle mode, the motor switches its cycle every 60 seconds and as the stale air is being exhausted out it passes several filters and a ceramic heating core. The ceramic heating core is heated up waiting for the motor to switch to fresh air mode. The fresh air passes through the heated ceramic core and recovers up to 90% of the heat and sends it back into the room.

KEY BENEFITS OF THE ZERO1

- Simple installation. No ducts required.
- Ideal for new builds and energy retro-fits of buildings
- Designed to work in airtight buildings
- Extremely low running costs
- Can be maintained without the requirement of a specialist
- Low noise operation
- Remote control included

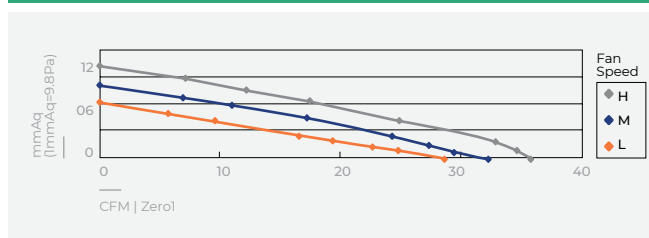
PERFORMANCE

Color	White
Material	ABS
Voltage / Frequency	230VAC / 50 Hz
Airflow [Max]	60m ³ /h
Heat Exchange Rate	90%
Max Power	6W
Applicable Areas	5-30m ³ /h
Operation Mode	Air supply mode Exhaust mode / Dual mode
Speed Mode	High / Middle / Low speed

ZERO1

Speed	I	II	III
Supply Voltage 50-60Hz	1~100~230		
Air Capacity <m ³ /h>(CFM)	48(28)	54(32)	60(35)
Power	1,8	3,9	6,0
Current<A>	0.019	0.034	0.053
RPM<min-1>	2200	2400	2800
Noise Level 1m <dB>	31	35	43
Noise Level 3m <dB>	22	25	33

PERFORMANCE CURVE



ACCESSORIES

1 x User's manual,
Fixing screws

SAFETY & CERTIFICATES

CE (EMC, R&TTE, LVD,
HEALTH, ROHS)



De-centralised MVHR

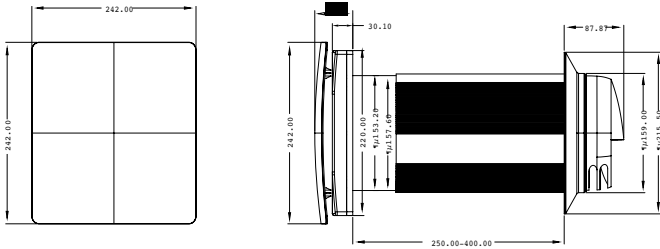


Zero1

ZERO1



ZERO1 OVERALL DIMENSIONS (MM)



DESCRIPTION

1. Low energy demand
2. Supply clean fresh air to the house
3. Remove stale extract air from the house
4. Cleans the air of dust and insects
5. Prevent excessive humidity and appearance of mold
6. Protects against outdoor noise
7. Recovers heat and provides humidity balance inside
8. Reduces the heating costs in winter and air conditioning costs in summer

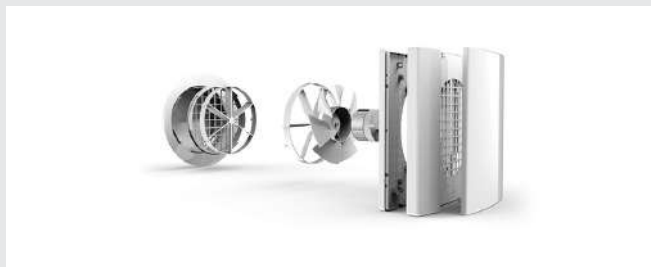
Quick & Easy Installation

When it comes to building an air-tight building, mechanical ventilation is one of the most important pieces of kit required to allow the structure to breathe. It is essentially the lungs of the building. Detailed planning is required to plan duct routes through web joists and attic voids back to the central fan. This is all very achievable on a completely new build dwelling when there is a blank canvas to work with. When working on an energy retro-fits or extension to the property, the luxury of having exposed ceilings and routes for the ducting is not always there. This is where the ZERO 1 will have a greater advantage over the centralized system. The installation is very straight forward. A core hole in the location where the unit is going and a small power cable is all that is required. Installation can be less than 30 minutes for each unit and it does not require a professional to fit.



Balance in harmony

Using the smart wireless touchscreen control panel, several Zero1 units can be grouped together. Some units can be programmed to exhaust air while others can be programmed to supply air into the building. The silent motors in the Zero1 can change cycle and switch from exhaust to supply therefore recovering up to 90% of the heated air during the exhaust cycle.



Ceramic heat exchange core

At the heart of the Zero1 is the ceramic core heat exchange unit. This core is protected either side by special filters that trap VOC's on exhaust and supply mode and only allow air to flow through. Every element inside the Zero1 is removable for cleaning ensuring quality fresh heated air is supplied into the building. This feature also eliminates the requirement for expensive service professionals to carry out maintenance works as it can be easily done by the homeowner. It would be like cleaning out a domestic vacuum cleaner.



Design with ease

Designing a ventilation system for a new home or renovation could not be easier and be in full compliance with the new building regulations and nZEB. One Zero1 unit is capable of extracting 60m³/h (16.6l/s) at high speed. According to the TDG Part F 2019 regulations the minimum extract rate for a kitchen is 13l/s.

