



Features and Benefits

- Controls condensation and odours.
- Up to 70% heat recovery.
- Balanced supply and extract air flows.
- Eliminates mould growth.
- Prevents noise ingress.
- Reduces maintenance costs.

Model	Stock Ref:
HR204	37 27 08

This unit is a residential mechanical ventilation unit with high efficiency heat recovery that provides continuous extraction of stale air from the dwelling typically from the bathroom and kitchen. As the unit is a compact design it can be easily located in a kitchen cupboard, airing cupboard etc. when space is at a premium. The HR204 prevents noise ingress and eliminates mould growth.

Performance of HR204: Up to 185m³/h FID capacity (balanced airflow). Designed for use in apartments, flats and smaller dwellings and in particular those inner-city sites where noise ingress is a problem.

Typical Specification

Supply and install a HR204 Wholehouse heat recovery unit as manufactured by Vent-Axia Clean Air Systems, Fleming Way, Crawley, West Sussex, RH10 9YX, Telephone: 01293 441520.

Performance:	m³/h	l/s
Maximum ventilation rate	185.0	51.39
N° speed settings	6	

Efficiency: The unit should retain up to 70% of the temperature differential of out going air.

Heat exchanger: should be of a multi plate cross-flow type constructed out of a polymeric plastic with ultra sonic welded joints.

Motor: should be a 240V 50Hz A/C with sleeve bearings, greased for life. It shall operate up to an ambient temperature of 40°C and be fitted with a manual reset thermal overload protective device.

Fan: The fan impeller should be of a forward curved centrifugal type, dynamically balanced.

Controls: An integral multi-step transformer should power the unit. This will provide a switch gate between a selected slow speed and boost condition. The switch can be a manual or sensor type or a combination of both.

Ducting spigots: The unit should provide 100mm Ø x 40mm long spigots for all duct connections. The inlet and outlet configuration is fixed. (Can be converted to flat ducting)

Filter: should be a mat type over wire frame to minimum of EU2.

Condensate Drain: The outlet provided should be 15mm Ø located on the bottom left hand side of the unit.

Construction: The unit outer case should be constructed of white powder coated sheet metal with ABS spigot connections. All internal sheet metal to be galvanised or stainless steel.

Mounting: Vertical only.

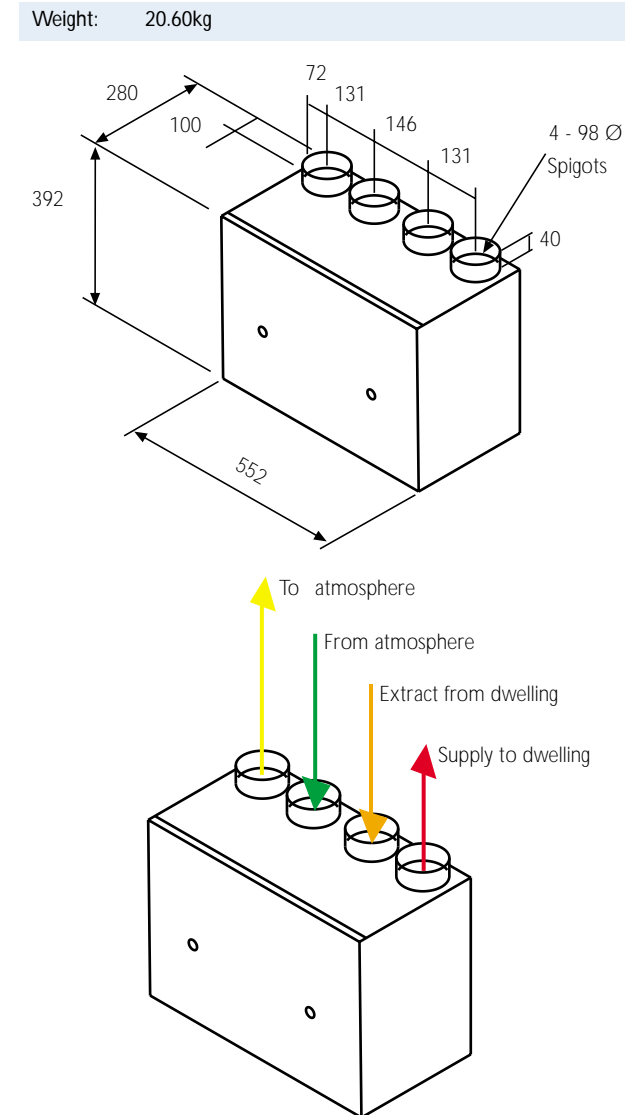
Sound Levels:	dB(A) @ 3m
Minimum:	29.0
Maximum:	55.0

Mains electrical supply: 230VAC 50Hz.

Complies to the following directive:

CE.

Dimensions (mm)



Installation

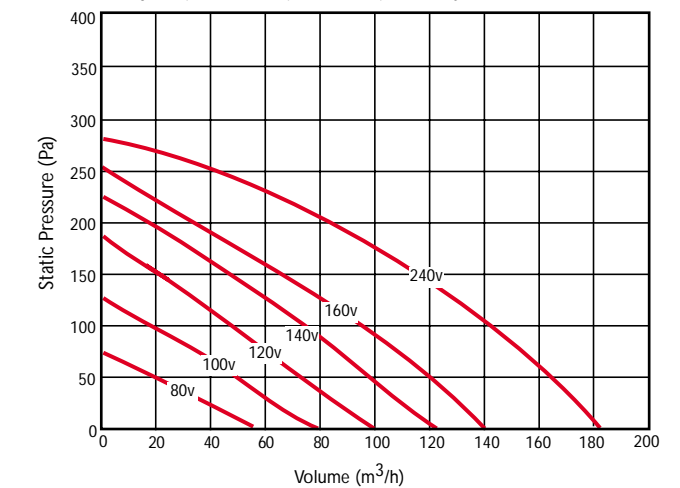
The unit is designed for fitting in confined spaces the HR204 requires a flat vertical area 1335mm high x 600mm wide for installation. The exhaust duct must pass through an outside wall or roof and discharge to atmosphere in a suitable position. The clean air inlet duct must pass through an outside wall or roof and be suitably positioned to provide an adequate fresh air supply from atmosphere.

Power Consumption

Speed 1	80V	16W
Speed 2	100V	27W
Speed 3	120V	40W
Speed 4	140V	52W
Speed 5	160V	65W
Speed 6	240V	111W

Performance

The MVHR unit has five normal fan speed settings and one boost setting. The performance curve chart gives the ventilation rates at each fan speed setting compared to the pressure drop of the system



HR204 to be used with a Integral Transformer for maximum controllability

Motor Speed	1	2	3	4	5	6
Volume m ³ /h (FID)	60	80	100	120	140	185

Controllers & Sensors

Controller Options				
Trickle Boost Switch	Ambient Response Humidistat	Visionex PIR	TIM2	7 Day Timeswitch
45 52 13	56 35 50	45 96 23	37 03 46	56 35 15

For further details on controls & sensors please refer to pages 98-102. For accessories details, please refer to pages 103-105.

For wiring diagrams details please refer to page 119.