



HEAT RECOVERY VENTILATION

RECOVERING THE ENERGY FROM STALE AIR TO REDUCE HEATING

AIR MINDER - Whole house Heat Recovery Ventilation



Features and Benefits

- Air Minder meets future European directives for efficiency and air leakage.
- Up to 90% heat recovery whilst controlling condensation.
- Meets new Building Regulations.
- LoWatt Energy Saving, constant volume, DC fans.
- Automatic summer bypass and defrost functions.
- Washable EU3 Filters.

Air Minder is the next generation of wholehouse heat recovery ventilation systems. It will effortlessly remove your home's polluted air and provide a constant supply of clean filtered air, allowing you and your family to live in an ideal indoor environment. They are installer friendly and fit into many different orientations with their unique ducting turrets rotating to any required angle.

Air Minder is available in two unit sizes, 290 or 400 versions. Air Minder can be installed in lofts, either on the rafters or suspended, or in ceiling voids, large cupboards or basements. Air Minder combines continuous ventilation with the most advanced heat recovery system available. Sized correctly it will gently ventilate the property at a rate of about half an air change per hour, removing moist air and unpleasant smells from the kitchen, bathrooms and toilets and extracting it to the outside. Fresh filtered air is drawn into living spaces such as bedrooms and living rooms, providing continuous ventilation even when the house is sealed up for the day.

By keeping humidity levels low and introducing warmed fresh filtered air to replace contaminated air, the quality of the internal environment is significantly improved. Continuous wholehouse ventilation can help reduce relative humidity to below 70% RH, which inhibits the ideal living and breeding conditions of the house dust mite. For hotter climates, FB models are fitted with a summer by-pass feature which automatically opens to maintain comfort conditions.

Built-in EU3 filters are easily removed from the unit. For less accessible applications or for higher levels of filtration, a separate ceiling mounted EU7 bag filter cassette is available.



HEAT RECOVERY VENTILATION

RECOVERING THE ENERGY FROM STALE AIR TO REDUCE HEATING

Performance

Constant velocity DC motors in the unit ensure that balancing the input and output air volumes is done automatically. Air Minder has a choice of performance settings based on volume of the home and can be boosted to a higher ventilation rate either manually or using remote sensors such as the an indoor air quality sensor, humidity sensors etc.

Performance:		m ³ /h	l/s
Max ventilation rate	AM290	290.0	81
	AM400	400.0	111
N° speed settings		12	

Efficiency: The unit should retain up to 90% of the temperature differential of out going air.

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

Motor: should be a Lowatt Energy Saving DC with ball bearings, greased for life. It shall operate up to an ambient temperature of 40°C and be fitted with an electronic thermal overload protective device.

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

Controls: The unit should be powered via an internal switched mode power supply remotely controlled by a programmable 3-speed night, day and boost switch.

Ducting spigots: The unit should provide 150/200mm Ø (AM290/AM400) spigots for all duct connections.

Filter: Should be a synthetic material tested to minimum of EU3, housed in a plastic bayonet fitted frame.

Condensation: 12.5 mm Ø outlets are provided to suit the orientation of the unit.

Construction: The unit outer case and fan volutes should be moulded from ABS injection moulded plastic.

Mounting:	Ceiling:	Horizontal.
	Floor:	Horizontal only.
	Wall:	Vertical only.

Power Consumption: Maximum Amps	AM290	163W
	AM400	286W
Power Consumption: Minimum Amps	AM290	14W
	AM400	20W

Mains electrical supply: 230VAC 50Hz.



HEAT RECOVERY VENTILATION

RECOVERING THE ENERGY FROM STALE AIR TO REDUCE HEATING

Controller

DC Control Programmer - surface controller with LCD status screen. Automatically switches between 3 speeds, slow (night), medium (day) and manual boost. Supplied with each Air Minder unit.

- User programmable or default program
- On/Off/Boost and Sensor mode operation
- Time elapse meter (hours unit has run)
- Auto Summer by-pass (when fitted)
- Auto defrost
- Filter cleaning indicator
- Heating failure cut-out
- Service indicator

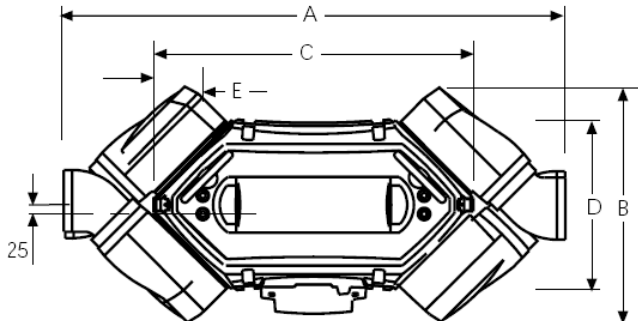


Dimensions (mm)

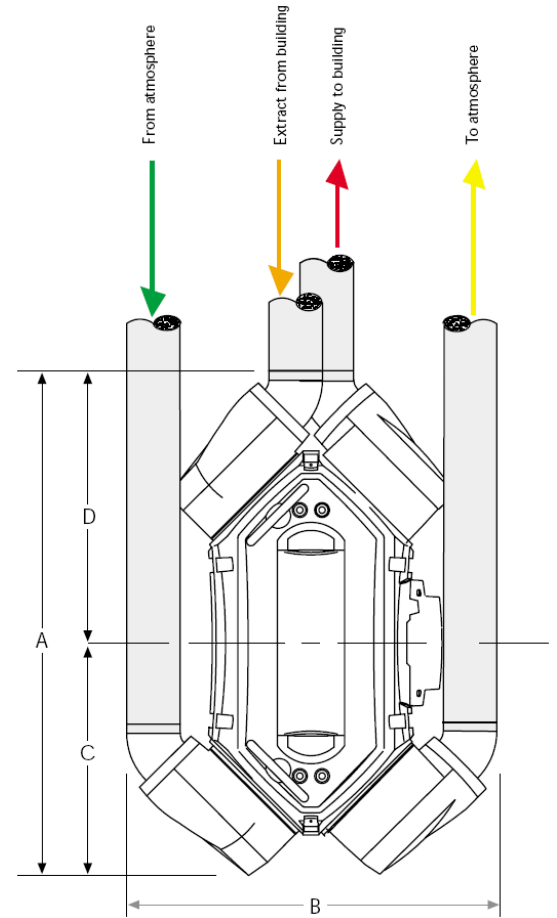
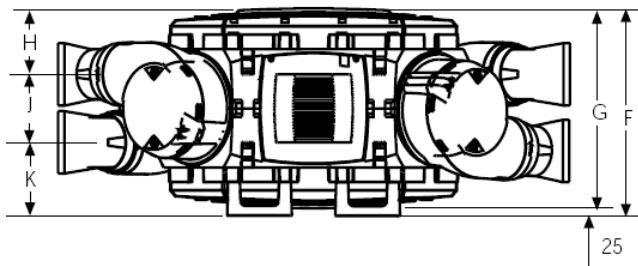
Vertical Installation

Model	A	B	C	D	Assembled Weight Kg
Air Minder 290	1290	1050	570	720	28
Air Minder 400	1320	1050	570	750	29

Plan Elevation



Side Elevation



In-line Installation

Model	A	B	C	D	E	F	G	H	J	K	Assembled Weight Kg
Air Minder 290	1440	700	945	507	150	525	500	150	200	175	28
Air Minder 400	1500	700	945	507	150	605	580	215	150	230	29