



Description	Order Code
EC Axial Inline Extraction Fan	FAN0085

This 150mm diameter fan is suitable for straight forward domestic bathroom ventilation applications.

The high speed brushless EC motor, fitted with integral ball bearings, mean a long service life and a quieter operation. These fans are generally mounted in the ceiling cavity to exhaust air from interior vents to the outside. The compact design, low profile, ease of mounting and IP rating to IP44 ensure a straight forward installation.

Suitable for extracting air from toilets and bathrooms. Ideal for the supply of fresh air to stale enclosed areas.

Thank you for purchasing this quality EC axial inline extraction fan.

To ensure correct function and safety, please read all instructions before using the product and keep all instructions for future reference.



When using electrical appliances, basic safety precautions should always be followed to reduce the risk of fire, electrical shock and personal injury.



SPECIFICATIONS

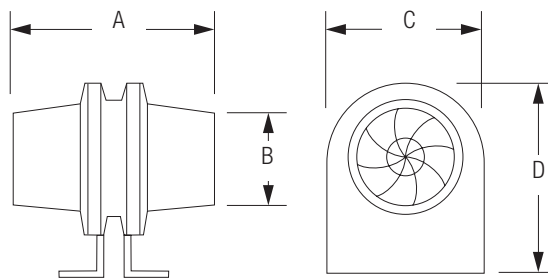
Duct (mm)	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)
			(l/s)	(m³/hr)		
150	18	91	105	380	0.17	38

 5468 Compliance: AS/NZS60335-2.80:2016

DIMENSIONS

A	B	C	D
200	143	170	185

Note: Grille cut-out size is a nominal diameter for a circular cut-out.



TECHNICAL

Supply	Max. Operating Temp	IP Rating	Motor Housing	Impeller & Outer Rotor
110-240V AC, 50Hz	45°C	IP44	Die cast aluminium	PBT plastic

FAN TIMER SELECTION

Please use the FAN2444 fan timer model shown

Do not use old model FAN2444 (with resistor) or FAN0372 fan timers



REGULATIONS AND STANDARDS

New Zealand Building Code and Healthy Homes

The following two category requirements have been established for mandatory extraction ventilation in New Zealand.

The New Zealand Building Code for New Building Consents

The building regulatory system sets out a framework to promote good quality decisions being made during the Building Consent process. The legislation and regulations work together, as the building regulatory system. The functional clauses of the NZ Building Code are grouped and described by a letter and number. Clause G of the NZ Building Code covers services, with G4 setting out the performance requirements for ventilation. The Building Code is enshrined in law. The New Zealand Building Code, G4, has been changed. This is supported by Acceptable Solution G4/AS1 Fourth Edition that specifies mechanical ventilation in accommodation units that contain cooktops, showers and baths.

Residential Tenancy Regulations to the Healthy Homes Standards

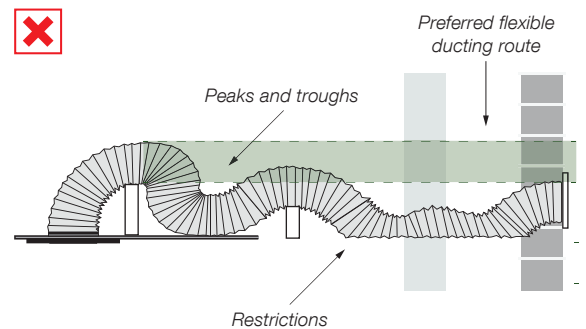
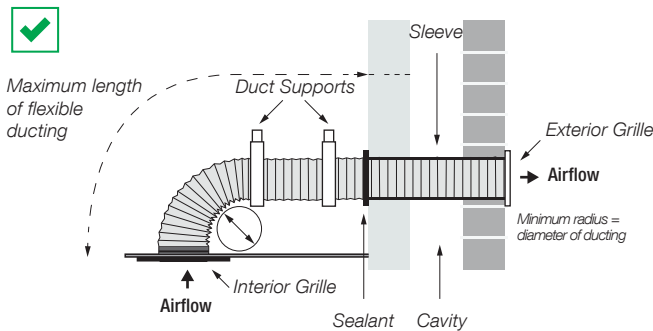
Residential Tenancy Regulations for rental properties only is changing to the Healthy Homes Standards, sub part 4 - Ventilation Standards.

Complying with the Acceptable Solution G4/AS1

To comply, the mandatory mechanical extract system must deliver minimum airflow rates for the complete installed ventilation system. This means that airflow rates must deliver the airflow after resistance of the ducting, internal and external grilles, as well as all other accessories, such as backdraught shutters, are included.

Fan selection is important as some types are far better at overcoming ducting system pressure drops.

Additionally, the quality of the ducting system installation can be all important. Rigid duct systems (see page 102) are best as they are the most efficient. Good installation practice is vital for flexible duct systems.



Choosing the Right Fan to Comply

Fans cannot be selected on the basis of free-air performance only. Fans must now be selected on the basis of the complete installed system performance for a designated room as per the table below.

Room	Airflow Rate (min.)	
	Intermittent	Continuous
Toilet ¹⁾	25 l/s	10 l/s
Bathroom/shower	25 l/s	10 l/s
Laundry ²⁾	40 l/s	-
Kitchen	50 l/s	12 l/s

1) Toilets only require ventilation if they have no windows that can be opened

2) Ventair recommends 40 l/s for laundries with un-vented non-condensing tumble dryers as covered in AS 1668: Part 2 2012

Recent unregulated extract fan practices in New Zealand has trended to basic, low pressure axial fan products, as installed system performance has not been defined for independent inspection testing and compliance signed off by local authorities.

Bathroom

25 l/s

		Metres of Ducting									
		1	2	3	4	5	6	7	8	9	10
No. of Bends	1	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC
	2	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC
	3	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC
	4	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC	Hyper150 EC
	5	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150	Mixflo 150

Fan Selection

Hyper150 EC

Mixflo 150

Kitchen

50 l/s

		Metres of Ducting									
		1	2	3	4	5	6	7	8	9	10
No. of Bends	1	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet
	2	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet
	3	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet
	4	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet
	5	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet	Blue Jet

Blue Jet



EC AXIAL INLINE EXTRACTION FAN INSTALLATION AND ELECTRICAL CONNECTION MUST BE CARRIED OUT BY A REGISTERED ELECTRICIAN



CAUTION

- Before use, please check that the supply voltage and that of the appliance are the same (see product rating label).
- All wiring and wiring connections must comply with all current national wiring rules and regulations including AS/NZS3000:2017, or latest edition thereof.
- Any changes or modifications made or attempted to this product, without the prior written approval of the manufacturer, will void any and all stated warranties.
- This fan is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are capable of, and have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the fan.
- In case of damage to the supply cord, switch off the device and do not tamper with it. Damaged supply cords must only be repaired or replaced exclusively by the manufacturer or by an appointed representative. Failure to comply with the above may endanger the safety of people and cause possible damage to the whole system.
- Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.



BEFORE INSTALLING THE EC AXIAL INLINE EXTRACTION FAN, MAKE SURE YOU HAVE TURNED OFF THE MAIN ELECTRICITY SUPPLY. DO NOT TURN IT BACK ON UNTIL THE EC AXIAL INLINE EXTRACTION FAN IS FULLY INSTALLED AND READY TO USE.

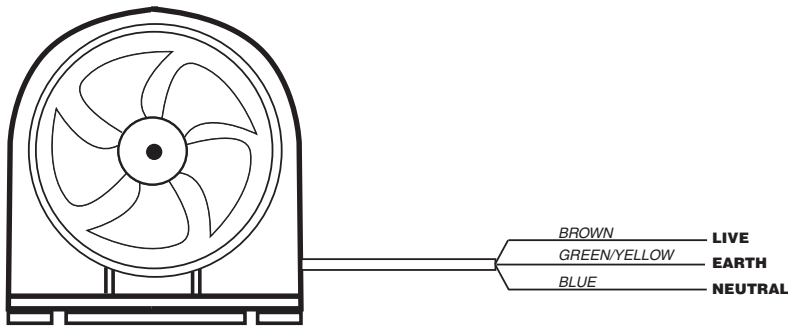


ALL ELECTRICAL WORK MUST BE CARRIED OUT BY A REGISTERED ELECTRICIAN IN ACCORDANCE WITH THE LATEST WIRING RULES AS/NZS3000.

WARNING

- This EC axial inline extraction fan is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials away from the fan and keep them away from the sides and rear.
- Do not use near or in the immediate vicinity of a bath or swimming pool or any wet areas.
- To protect against electric shock, do not immerse cord or plug in water or any other liquids.
- Do not insert or allow foreign objects to enter any ventilation openings, as this may cause an electric shock, fire or damage to the fan.
- Do not put fingers or foreign objects into the grille while in operation.
- Any changes or modifications made or attempted to this product, without the prior written approval of the manufacturer, will void any and all stated warranties.
- To prevent overheating of this fan, keep the air inlets and outlets clean and free of anything that may cause blockage. Check all inlets and outlets from time to time to ensure it is clear of any dirt or dust accumulation. **DO NOT COVER.**
- Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
- This product contains recyclable materials. Do not dispose of this product as unsorted council waste. Please contact your local council for the nearest collection point.

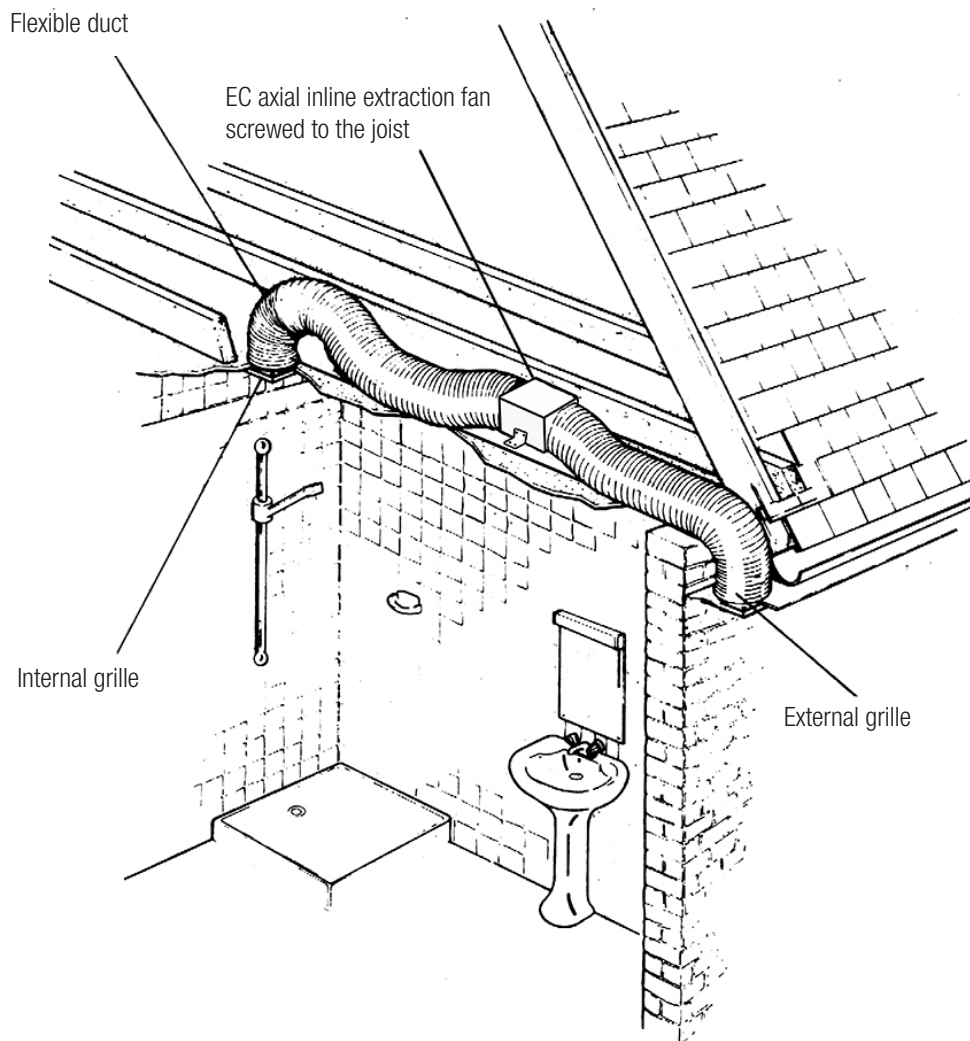
ELECTRICAL CONNECTIONS



INSTALLATION

The plastic spigots have been designed for easy mounting onto a flat solid surface such as the top plate of a wall partition, or ceiling joist, as found in a roof cavity or, alternatively, to avoid possible resonance effects the motor can be suspended from the rafters.

TYPICAL INSTALLATION



Ventair Warranty Information

In this warranty:

We means Ventair;

You means the consumer of the Goods

Supplier means the authorised distributor or retailer that sold you the Goods in Australia; and

Goods means the Ventair product accompanied by this warranty and purchased in Australia.

The benefits provided to you under the following warranty are in addition to any other rights and remedies available to you under the law:

1. If, during the time from the date of purchase (Warranty Period), there is a defect in the Goods due to improper workmanship or material, we will replace or repair the Goods without charge. Any replacement product is warranted only for the time remaining on the original Warranty Period.
2. We are not obliged to replace or repair the Goods under clause 1 if the Goods have been improperly stored, installed, connected, used, operated, repaired, damaged, abused, tampered with, altered (without our written approval), or not maintained in accordance with our recommended installation, connection and operating instructions.
3. We exclude liability for:
 - a) consequential loss or any other loss or damage caused to property or persons arising from any cause whatsoever;
 - b) damage to consumable items such as lamps and starters; and
 - c) damage arising from normal wear and tear.
4. In order to claim under this warranty you must, within the Warranty Period, return the Goods to the Supplier, together with the original proof of purchase including the details below:

Supplier Name _____

Date of Purchase _____

Model Number _____

Invoice/Receipt No. _____

5. This warranty does not cover the cost of claiming under the warranty or transporting the Goods to and from the Supplier.

Our Goods come with guarantees that cannot be excluded under Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.

To speak to someone about your Manrose product or claiming under this warranty, please contact:

Ventair Pty Ltd

p: +61 3 9775 0556 f: +61 3 9775 0775

www.ventair.com.au or www.manrose.com.au