QUIET 125mm Extraction Fan Kit

MANROSE

Mounting	Switching	Order Code
Through Wall	Standard	FAN7187
	Timer	FAN7188
	Humidity Control	FAN7189

For best results, Simx recommend this product for bathrooms.

Following these installation instructions, this product will comply with the G4 Building Code for bathrooms once installed.

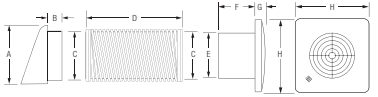
The Healthy Homes Standard requirement for bathroom installation in a rental property is also met.

SPECIFICATIONS

Duct (mm)	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Operating Temperature (max.)	IP Rating
			(l/s)	(m^3/hr)				
125	15	68	54	194	0.28	38	40°C	IPX4

E6337 Compliance: AS/NZS60335-2.80:2016

DIMENSIONS



Cut-Out Size	A	B	C	D	E	F	G	H
140	160	30	125	375	120	100	29	187

CONTENTS

Axial Fan

125mm x 375mm Aluminium Semi-Rigid Duct

Weatherproof Cowl

WHEN USING ELECTRICAL APPLIANCES, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF PROPERTY DAMAGE OR PERSONAL INJURY.

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

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/NZS3000:2018, 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.
- Precautions must be taken to avoid the back flow of combustion gases from the open flue of gas or other fuel-burning appliances in the room, or from other rooms. These gases can potentially result in carbon monoxide poisoning. Open flued gas appliances should be tested by a competent person, after fan installation, to ensure that back flow of combustion gases does not occur.

WARNING

- 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.
- 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.

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

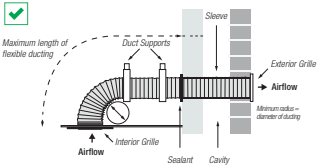
Residential Tenancy Regulations for rental properties only is changing to the Healthy Homes Standards, sub part 4 - Ventilation Standards.

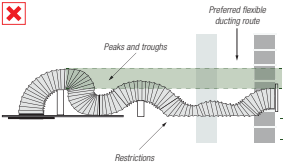
Complying with the Acceptable Solution G4/AS1

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 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 openable windows
2) Simx recommends 40 l/s for laundries with unvented non-condensing tumble dryers as covered in AS 1668: Part 2 2012

Wall Fans and Through Wall Fan Kits

The following chart provides an easy fan selection guide for the range of Manrose Quiet fans and kits, to ensure compliance with the building code. An upgrade to the next available model is always recommended should more airflow be required.

Selection Reference Guide

Application	Duct	Wall Fans	Through Wall Fan Kits
Toilet	150mm	FAN7183	FAN7190
	125mm	FAN7180	FAN7187
Bathroom	150mm	FAN7183	FAN7190
	125mm	FAN7180	FAN7187
Laundry	150mm	FAN7183	FAN7190
Kitchen	150mm	FAN7183	FAN7190

EXTRACTION FAN INSTALLATION AND ELECTRICAL CONNECTION MUST BE CARRIED OUT BY A REGISTERED ELECTRICIAN IN ACCORDANCE WITH THE LATEST WIRING RULES AS/NZS3000.

INSTALLATION

1. Cut a 140mm diameter hole through the wall and insert the semi-rigid ducting. Slope the ducting slightly downwards away from the fan. Cut to length and tape both ends into position flush with the wall faces. Push the two clips on the bottom of the fan and pull the grille away from the chassis.
2. Using the built in spirit level bubble as an aid, mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position. Fix exterior grille into position with the louvres angled downwards.

   NOTE: The grille must be fitted to comply with the standard requirements to prevent access to the fan's impeller. The wall kit used in this installation should provide a minimum ducting length of 100mm from the fans back plate to the inside of the external grille.
3. After installation, ensure impeller rotates freely and the shutters can open.
4. Replace the grille and ensure the clips are engaged.

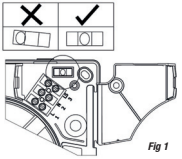


Fig 1

Open up the internal cover to access the spirit level bubble and terminals

IMPORTANT

- The fan should only be used in conjuction with fixed wiring.
- The cross-sectional area of supply cord used should be ranged from 1 -1.5mm^2 with the appropriate sized protection device.
- Cable entry can only be made from the rear of the fan.
- The fan is suitable for connection to 220-240V AC 50Hz supply.
- The fan is a Class II double insulated product and **MUST NOT** be earthed.
- Check all connections have been made correctly and securely fastened.
- Ensure the impeller rotates and is free of any obstructions.

EXTRACTION FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION OR MAINTENANCE

MAINTENANCE

1. At regular intervals following installation, the fan should be inspected and cleaned to ensure there is no build up of dirt or other deposits.
2. The fascia can be cleaned without removal by wiping the inlets and front face with a damp cloth.
3. The fan has sealed for life bearings, which do not require lubrication.

DISPOSAL

This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

WIRING CONNECTIONS

Standard Switching

The single speed fan is switched via an existing or a new light, or auto sensor, switch (switch not supplied) (Fig 2).

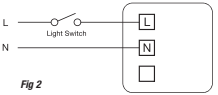


Fig 2

Timer Switching

The single speed fan is switched via an existing lighting circuit switch (Fig 2) or a new ON/OFF switch (Fig 3) (switch not supplied), however, on the timer model, a built-in timer allows the fan to run on after being switched off.

Before adjusting the timer, the mains supply must be switched OFF. When switched ON, the fan will operate at full speed and will continue to run at that speed, for a pre-set time, after the fan is switched OFF.

1. Remove the fan grille. The controller is factory set at 15 minutes approx. The overrun time period can be adjusted from 1-30 minutes by altering the adjuster on the control PCB. Note the exact min/max time may vary between products.
2. To REDUCE the operating time, use a small screwdriver to turn the adjuster (Fig 4) ANTI-CLOCKWISE.
3. To INCREASE the operating time, use a small screwdriver to turn the adjuster (Fig 4) CLOCKWISE.
4. Replace the fan grille.

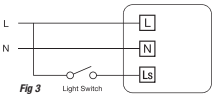


Fig 3

Fig 4

Humidity Control Switching

The single speed fan is switched via an existing lighting circuit switch (Fig 2) or a new ON/OFF switch (Fig 5) (switch not supplied), however, on the humidity model, an integral humidity controller, when in automatic mode, will switch the fan ON at full speed when the room relative humidity (RH) increases. The fan will continue to run until the room's relative humidity falls.

A built-in timer allows the fan to run on for a fixed time of 15 minutes after being switched off. The timer can be disabled by removing jumper, JP1 (Fig 6). The integral pullcord activates the internal 15 minute timer. The timer can be cancelled by pulling the pullcord again. The pullcord can be removed by cutting the cord.

The fan is factory set to operate at low speed with jumper JP2 fitted. The high speed setting is activated when jumper JP2 is removed.

1. Remove the fan grille. The humidity set point of can be adjusted from 60-90% humidity by altering the adjuster on the control PCB. Note the exact min/max set points may vary between products.
2. To REDUCE the set point, use a small screwdriver to turn the adjuster (Fig 6) ANTI-CLOCKWISE making the controller LESS sensitive to humidity up to 90% before switching on.
3. To INCREASE the set point, use a small screwdriver to turn the adjuster (Fig 6) CLOCKWISE making the controller MORE sensitive to humidity as low as 60% before switching on.
4. Replace the fan grille.

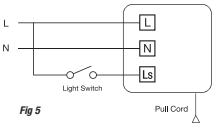


Fig 5

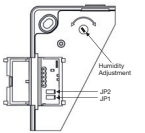


Fig 6

Comfort Mode

- *To activate the comfort mode, pull and hold the pull cord for 5 seconds.*
- *The LED will flash (Fig 7) to indicate that comfort mode has been set.*
- *This feature delays the LS input boost operation for a maximum of 20 minutes to reduce noise and cold draughts while bathing.*
- *The fan's internal relative humidity sensor is disabled during comfort mode. This feature resets if there is a power cut.*

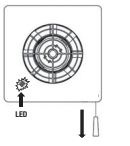


Fig 7

Simx Warranty Information

In this warranty:

We means Simx;

You means the consumer of the Goods

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

Goods means the Simx product accompanied by this warranty and purchased in New Zealand or 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 the New Zealand and 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 Simx product or claiming under this warranty, please contact:

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