

# MANROSE®



**E4**  
BUILDING CODE



**HEALTHY  
HOMES**  
STANDARD

## Guidelines for Extraction Fan Selection

[www.manrose.co.nz](http://www.manrose.co.nz)

# RECOMMENDED MANROSE® EXTRACTION PRODUCTS FOR POTENTIAL APPLICATIONS

There are four different levels of regulations and/ or acceptable solutions for residential Bathrooms and Kitchens in New Zealand. These cascade down, in the table below, from the highest performance standard at the top, to the lowest at the bottom. These standards are explained on the following pages. It is important to note that the Manrose product recommendations are guidelines, and responsibility for compliance remains with the installer, as the performance of the complete system is dependent on the quality of the installation practice used and is specific to each site. Manrose product packaging for these applications carries one of the four blue stamps shown below.

SEE PAGE <b>9-17</b>		<b>DESIGNED FOR G4 BUILDING CODE &amp; HEALTHY HOMES – BATHROOMS &amp; KITCHENS</b>
SEE PAGE <b>18-22</b>		<b>DESIGNED FOR G4 BUILDING CODE &amp; HEALTHY HOMES – BATHROOMS</b>
SEE PAGE <b>23</b>		<b>DESIGNED FOR HEALTHY HOMES STANDARD - BATHROOMS &amp; KITCHENS</b>
SEE PAGE <b>24-26</b>		<b>DESIGNED FOR HEALTHY HOMES STANDARD - BATHROOMS</b>

## Regulations and Standards

### New Zealand Building Code and Healthy Homes

The following two category requirements have been established for mandatory mechanical 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

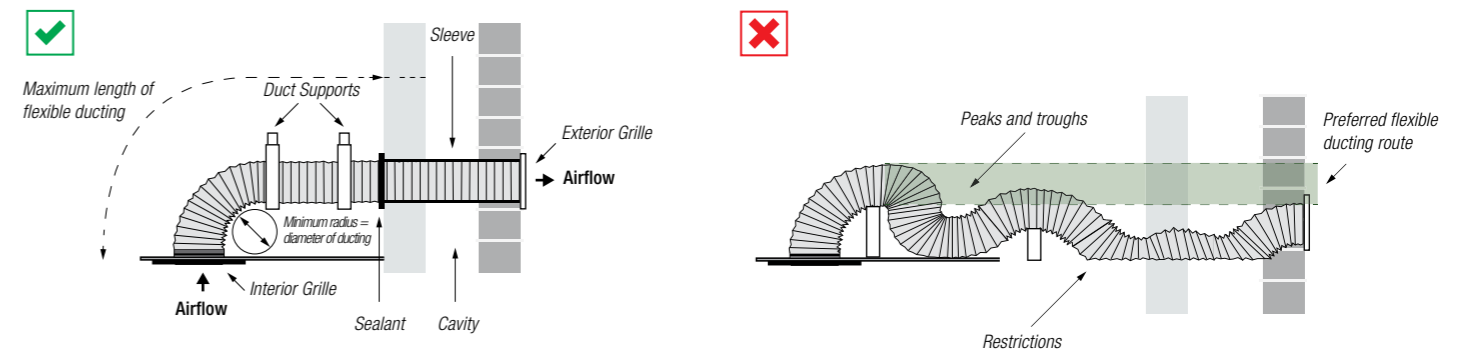
Residential Tenancy Regulations for rental properties only has changed to the Healthy Homes Standards, sub part 4 - Ventilation Standards.

#### 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 <sup>1)</sup>	25 l/s	10 l/s
Bathroom/shower	25 l/s	10 l/s
Laundry <sup>2)</sup>	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

With earlier unregulated extract fan practices in New Zealand, the market trended to basic, low pressure axial fan products, as installed system performance was not defined for independent inspection testing and compliance signed off by local authorities. This approach has changed under the latest mandatory regulations.

### Fan Type Considerations

Determining the best fan requires consideration of location, sound levels and aesthetic appeal. Different fans suit different applications. The longer the duct run, the greater the pressure that is required to overcome the resistance created by the duct.

Low pressure is required for short run systems, such as through wall or window mounted fans, but far greater pressure is required for longer ducted systems and where the fan and ducting, with more bends, is installed in the roof cavity.

#### Short Run Systems

As through wall and window mounted axial fans only have to extract air over a short distance, the installed system performance rates are only slightly lower than that of fan's free-air performance rate. Fan selection to ensure compliance for any room requirement is, therefore, a straightforward procedure. See page 6 for further information.

#### Ducted Systems

The best solutions for ducted systems are centrifugal and mixed flow fans. These types of extraction fans are designed to develop the necessary pressure and resilience to overcome duct and grille system pressure-drop resistance. Axial inline fans are suitable for shorter duct runs, but will not be very forgiving when it comes to installation so care must be taken to ensure the best practice guidelines are followed.

Installed performance of a fan can, however, vary greatly dependent on the location, length of duct, number of bends and fittings such as backdraught shutters, cowls and grilles. For complete installed system performances to meet the standards, the following guidelines may be used as application limits dependent on best practice duct installation being employed along with the use of airflow efficient accessories such as grilles and backdraught shutters.

## Fan Selection Guidelines

### Ceiling Extraction Fans - Manrose Contour Centrifugal Range

The new Manrose CONTOUR range of centrifugal fans offers model options that easily exceed the **New Zealand Building Code G4/AS1** requirements for that specific room installation. To make it even easier for correct product selection, Manrose Contour fans are identified by their intended application purpose.

#### Selection Reference Guide

Toilet Manrose Contour Toilet fan - FAN7030  
 Bathroom Manrose Contour Bathroom fan - FAN7031  
 Laundry Manrose Contour Kitchen and Laundry fan - FAN7032  
 Kitchen Manrose Contour Kitchen and Laundry fan - FAN7032

Further, the Manrose CONTOUR fan range also includes the CONTOUR High Steam Area Fans (FAN7033 & FAN7034) for the more demanding applications and/or complete performance peace-of-mind. See page 9 for details.

**Toilet**  
25 l/s

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

*Toilets only require ventilation if they have no openable windows*



**Bathroom**  
25 l/s

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

**Fan Selection**  
 Orange Contour Toilet - FAN7030  
 Blue Contour Bathroom - FAN7031  
 Green Contour Kitchen & Laundry - FAN7032

**Laundry**  
40 l/s

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

*Simx recommends 40 l/s for laundries with unvented non-condensing tumble dryers*

**Kitchen**  
50 l/s

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

## Fan Selection Guidelines

### Inline Extraction Fans

The following chart provides easy fan selection guidelines, if good ducting system selection and installation best practices have been employed. This is to ensure compliance with the building code. An upgrade to the next available model is always recommended for higher airflow rates and more complex installations. These are guideline recommendations to assist with fan selection for NZBC G4/AS1 compliance.

#### Selection Reference Guide

Toilet Manrose Hyper150 EC axial fan for simple runs  
 Manrose Mixflo 150 mixed flow fan for longer runs  
 Bathroom Manrose Hyper150 EC axial fan for simple runs  
 Manrose Mixflo 150 mixed flow fan for longer runs  
 Laundry Manrose Mixflo 150 axial fan  
 Kitchen Manrose Mixflo 150 or Manrose Blue Jet mixed flow fans for best efficiency/airflow or on long ducts

**Toilet**  
25 l/s

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

*Toilets only require ventilation if they have no openable windows*

**Bathroom**  
25 l/s

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

**Fan Selection**  
 Orange Hyper150 EC  
 Green Mixflo 150  
 Blue Blue Jet

**Laundry**  
40 l/s

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

*Simx recommends 40 l/s for laundries with unvented non-condensing tumble dryers*

**Kitchen**  
50 l/s

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

## Fan Selection Guidelines

### Through Wall and Window Fans

The through wall and window fans listed in the following sections provide an easy fan selection guideline for Manrose through wall or window fans designed for the **New Zealand Building Code G4 Acceptable Solution** when best practice duct system selection and installation is used. An upgrade higher pressure and free-air performance is always recommended for better results.

**Fan Models with Simple Selection Reference Guidelines** - to be used in conjunction with the following pages

Toilet	125mm fan
	150mm fan
Bathroom	125mm fan
	150mm fan
Laundry	150mm fan
Kitchen	150mm fan

### Healthy Home Compliance - for Residential Tenancies rental properties only

Application	Designer	Wall / Ceiling Fans			Through Wall / Ceiling Fan Kits			Window Fans
		Pro-Series	Classic	Designer	Pro-Series	Classic	Classic	
Toilet	150mm	FAN7183	FAN0594	FAN0120	FAN7190	FAN0621	FAN0135	FAN0107
	125mm	FAN7180	FAN0589	FAN0072	FAN7187	FAN0614	FAN0080	-
Bathroom	150mm	FAN7183	FAN0594	FAN0120	FAN7190	FAN0621	FAN0135	FAN0107
	125mm	FAN7180	FAN0589	FAN0072	FAN7187	FAN0614	FAN0080	-
Laundry	150mm	FAN7183	FAN0594	FAN0120	FAN7190	FAN0621	FAN0135	FAN0107
Kitchen	150mm	FAN7183	FAN0594	FAN0120	FAN7190	FAN0621	FAN0135	FAN0107

### Continuous Ventilation

As an alternative to the traditional intermittent fans, the products shown below can be set as continuous running fans which provide a low level of trickle ventilation which runs constantly. These fans then have a boost facility via manual or automatic operation. These fans provide the most energy efficient and comfortable form of ventilation with low noise and excellent indoor air quality.



### Filtered Passive Ventilation

The Puro Filtered Passive Vent Kit DCT4565 is recommended for use in conjunction with Manrose and Vent-Axia extract fans to deliver improved indoor air quality. This is especially recommended with the continuously operating fans above.



## Choose the Right Fan

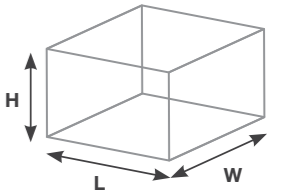
Extraction fans should be placed as close as possible to the steam source (e.g. over or near the shower). Inline fans are the most appropriate solution as the extraction grille can be placed directly above the steam source. Use following steps 1-6 as your guide to selecting the right fan for your application.

### 1. Calculate the Room Size

- Calculate the room volume in cubic metres (L x W x H) e.g. 2.8m x 2.6m x 2.4m = 17.47m<sup>3</sup>.
- Multiply the room volume by the following guidelines for air changes per hour (ACH) for that room. Always use the higher limit.

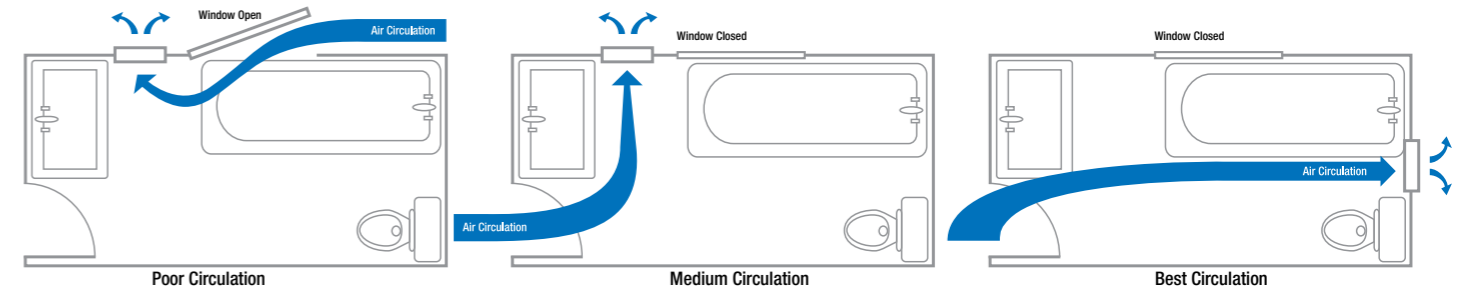
Toilets	6-10 ACH
Bathrooms, showers, ensuites	11-15 ACH
Kitchens, laundries	15-20 ACH

- The result is the minimum airflow performance required in cubic metres per hour that can be assessed against the fans Free Air Fan Performance, listed on the following pages, after a large downgrading allowance is made for the considerable slowing effect of a complete installed system. See page 3 for a description of duct system losses that will also occur from fascias, grilles, cowls and backdraft shutters. Manrose technical support can be consulted for their recommendations.



### 2. Consider the Location in the Room

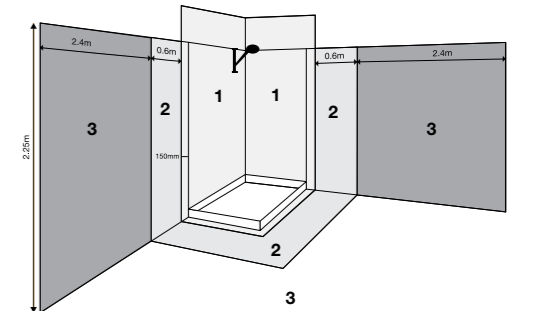
The right placement of an extraction fan will ensure optimum airflow through the bathroom. To ensure the fan works to its maximum efficiency, the extracted air needs to be replenished, or "made up", with an equal amount of dry air drawn in from an adjacent room or hallway. This make-up air replenishment may be assisted with the installation of a door grille (FAN0159).



### 3. Wet Area Zones & Recommended Fan Types

Wet area zones are determined by their proximity to the bath or shower. Use the wet area zone plan and table to identify what type of fan is required.

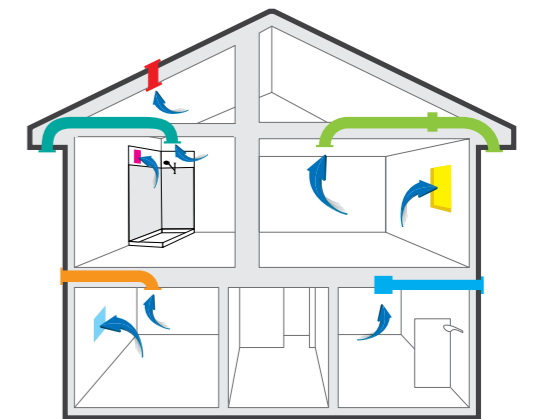
Zone	Description	Recommended Fan Type
1	Area immediately above the bath or shower tray up to the higher of either 2.25m or the height of the fixed plumbing connection	Safety extra low voltage, inline fans only, or contour without light
2	Area within 0.6m around the edge of the bath or shower tray	Any fan
3	Any area outside Wet Area Zones 1 & 2	Any fan



### 4. Select a Fan Type

From the list below select a fan type, then see the following sections to identify the model you require. Ensure the model you select has a performance (m<sup>3</sup>/h) greater than the performance calculated in step 1.

Fan Type	Application	Key
Inline Extraction Fans	Wet area zone 1	Green
Wall/Ceiling Fans	Wall and ceiling	Orange
Heat-Fan-Light Systems	Ceiling, multi-function	Blue
Inline Extraction Fan Kits	Wet area zone 1, integrated light	Teal
Through Wall Fan Kits	Wall	Light Blue
Through Roof Fan Kits	Roof	Red
Safety Extra Low Voltage (SELV)	Wet area zone 1	Pink
Window Fans	Window	Yellow



### 5. Saving Energy

The best way of calculating the most efficient fan for your needs, is to compare the specific fan powers of each one selected. The fan with the lower watts per l/s, will use less energy. If a fan has similar specific fan power to another, but much higher pressure for ducted installations, it will still be the more efficient option.

Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance (l/s)	Free Air Fan Performance (m <sup>3</sup> /hr)	Specific Fan Power (W/l/s)	Sound (dB(A))
25	60	101	364	0.25	40
20	35	36	130	0.56	41

### 6. Fan Switching Options

Option	Description	Option	Description
<b>Standard</b>	Remote wall switch	<b>Auto Sense</b>	Condition sensor incorporated in fan
<b>Timer</b>	Remote switch with delayed OFF adjustable from 1-20 minutes	<b>Variable Speed Controller</b>	Incorporated speed drive in fan
<b>Pull Cord</b>	Integral pull cord switch on fan	<b>Humidity Automation</b>	Humidity sensing and control incorporated in fan
<b>PIR Control</b>	Motion sensor incorporated in fan		

Setting the **Standards**  
in **Ventilation Solutions**



## Manrose Contour Fan Systems




the new standard in powerful, stylish, easy to install, configurable extract systems

DESIGNED FOR G4 BUILDING CODE & HEALTHY HOMES  
– BATHROOMS & KITCHENS



### Extraction Fans - Centrifugal

CONTOUR fans deliver simple compliance with current New Zealand Building Code G4/AS1 mandatory mechanical extract ventilation system requirements. As well as providing application room specific performance, Contour **Kitchen** and **Laundry** fans have a comprehensive range of stylish, interchangeable fascia to choose from.

CONTOUR Kitchen and Laundry Fan	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m <sup>3</sup> /hr)					
	150	Centrifugal	50	210	105	378	0.48	42	Range Selection (see below)	Standard	FAN7032
CONTOUR High Steam Area Fan	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m <sup>3</sup> /hr)					
	150	Centrifugal	106	220	153	550	0.69	42	Round White	Standard	FAN7033
									Square White	Standard	FAN7034


### Fascia Selections

Fan	Round				Square			
	White	Black	LED White	LED Black	White	Black	LED White	LED Black
 +								
<b>Kitchen and Laundry</b>	DCT4710	DCT4511	DCT4714	DCT4515	DCT4712	DCT4513	DCT4516	DCT4517

### Inline Fans - Centrifugal 3 Speed

Centrifugal fans create high pressure airflows and are best suited for high pressure applications such as drying and air conditioning systems.

Suitable for a variety of domestic applications, these inline centrifugal 3 speed fans provide high performance at your pre-set choice of speed and can also be used for supply. 2 year warranty.

WhisperVent 3 Speed	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m <sup>3</sup> /hr)				
	150	Speed 1 Speed 2 Speed 3	41 46 57	225 296 356	86 122 149	310 440 535	0.48 0.38 0.34	30 36 43	Standard	FAN0830



### Inline Fans - Mixed Flow



The Blue Jet fan incorporates powerful jet streaming technology and is driven by the energy efficient, brushless EC motor to deliver best-in-class airflow performance. A surface mounted variable speed control, and 10m control cable, is supplied along with a plug and lead for the fan. The Blue Jet fan is suitable for all residential applications. 5 year warranty.

The powerful MixFlo fans have been designed to produce higher working pressures for applications that require higher airflows with low relative noise levels. These large bore fans are designed for use with both rigid and flexible ducting. They offer two and half times the pressure of conventional axial fans and are dimensionally more compact making them ideal for many ducted applications. The impeller blade design with guide vanes provides optimum pressure characteristics. The fan can operate in both horizontal and vertical positions. Supported by a 4 year warranty or 30,000 continuous hours.

Designer BLUE JET	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	EC Mixed Flow	40	490	165	594	0.24	60	Variable Speed Controller	FAN6960
Pro-Series MIXFLO 2 Speed	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Mixed Flow	70 60	300 240	166 92	597 330	0.42 0.65	47 40	Standard	FAN1006
									Plug & Lead	FAN1048

### Inline Fans - Axial


Axial fans create low pressure high volume airflows and are best suited for general purpose applications. The Hyper150 EC axial fan is the trusted leader in bathroom extraction. Now with an EC motor, other ongoing improvements and variable speed control with 10m control cable, Hyper150 continues to lead the field. 7 year warranty.

Classic HYPER150 EC	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	EC Axial	18	91	105	380	0.17	38	Standard	FAN0085
	150	EC Axial	18	91	105	380	0.17	38	Variable Speed Controller**	FAN7000*

\*All data for FAN7000 at full speed  
\*\* Euro flush-box for variable speed control switch – included


### Inline Extraction Fan Kits - Hyper150 EC Contour Fascia-ready Kit

Kits are designed so the fascia-fitted adapter plate can be mounted directly above the steam source (eg: shower or bath). The adapter plate can be finished in style with a choice of separately ordered fascia from a comprehensive range of interchangeable round and square fascia options in either black or white (with or without 10W LED). 7 year warranty.

Designer Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	150	EC Axial	18	91	105	380	0.17	Range Selection (see below)	White Fixed Louvre	Standard	FAN7044

### Inline Extraction Fans Kits - MixFlo Contour Fascia-ready Kit

Kits are designed so the fascia-fitted adapter plate can be mounted directly above the steam source (eg: shower or bath). The adapter plate can be finished in style with a choice of separately ordered fascia from a comprehensive range of interchangeable round and square fascia options in either black or white (with or without 10W LED). 5 year warranty.

Designer Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Mixed Flow	70 60	300 240	166 92	597 330	0.42 0.65	Range Selection (see below)	White Fixed Louvre	Standard	FAN7366

#### Fascia Selections (order separately)

Round				Square			
White	Black	LED White	LED Black	White	Black	LED White	LED Black
							
DCT4502	DCT4503	DCT4506	DCT4507	DCT4504	DCT4505	DCT4508	DCT4509



### Inline Extraction Fan Kits without Lights

These kits are designed so that the interior grille can be mounted directly above your steam source (eg: shower or bath). Kits with the low profile fascia are supplied with a choice of stylish grilles. Mixed flow fans provide users with a two fan speed option. 5 year warranty.

Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Mixed Flow	70 60	300 240	166 92	597 330	0.42 0.65	Round White	Weatherproof Cowl White and Fixed Louvre White	Standard	FAN2051
											FAN0618
	150	EC Axial	18	91	105	380	0.17	Round White and Square White	Weatherproof Cowl White and Fixed Louvre White	Standard	FAN0618
										Timer	FAN0619
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
	150	EC Axial	18	91	105	380	0.17	Round White	Fixed Louvre White	Standard	FAN0101
										Timer	FAN0102

### Inline Extraction Fan Kits with LED Lights

These high efficiency inline fans are designed to provide higher levels of extraction for larger bathrooms and the LED light adds light directly above your steam source (eg: shower or bath). 5 year warranty.

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	150	EC Axial	18	91	105	380	0.17	Round White	Eggcrate White	Standard	FAN5369
										Timer	FAN5370

### Inline Extraction Fan Kits with Halogen Lights

These high efficiency inline fans are designed to provide higher levels of extraction for larger bathrooms and the halogen light adds light directly above your steam source (eg: shower or bath). 5 year warranty.

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	150	EC Axial	18	91	105	380	0.17	Round White	Eggcrate White	Standard	FAN0803
										Timer	FAN0804

### Extraction Fans - THROUGH WALL MOUNTED ONLY

These axial fans are designed for easy installation, low running noise and efficient operation. SELV (safety extra low voltage) fans are for use in wet area zones 1, 2 and 3 and incorporate a 12V AC motor and a 12V AC isolating transformer. Auto shutter models have automated backflow prevention vanes. 5 year warranty.

The new high-pressure and energy-efficient QUIET fans have ultra-high airflow without nuisance noise and are designed to be ducted straight through a bathroom or kitchen exterior wall. 5 year warranty.

Safety Extra Low Voltage (SELV)											
Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN5892
									Round	Standard	FAN5891
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN5896

Auto Shutter											
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Axial	25	60	87	313	0.29	40	Square	Standard	FAN0121
										Pull Cord	FAN0122
										Timer	FAN0123

Standard											
Designer QUIET	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Axial	22	138	114	410	0.19	41	Square	Standard	FAN7183
										Timer	FAN7184
										Humidity Control	FAN7185

Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code										
					(l/s)	(m³/hr)															
	150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN0594										
										Timer	FAN0595										
										Round	Standard	FAN0609									
											Timer	FAN0610									
										Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
											150	Axial	25	60	101	364	0.25	40	Square	Standard	FAN0120
Pull Cord	FAN0126																				
Timer	FAN0127																				
PIR Control	FAN0124																				



### Through Wall Fan Kits

These axial fan kits are easy to install and are designed to be ducted straight through an exterior wall. SELV (safety extra low voltage) fans are for use in wet area zones 1, 2 and 3 and incorporate a 12V AC motor and a 12V AC isolating transformer. Auto shutter models have automated backflow prevention vanes. All kits include a weatherproof cowl. 5 year warranty.

The new high-pressure and energy-efficient QUIET fan kits have ultra-high airflow without nuisance noise and are designed to be ducted straight through a bathroom or kitchen exterior wall. All kits include a weatherproof cowl. 5 year warranty.

#### Safety Extra Low Voltage (SELV)

Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN5894
								Round	Standard	FAN5893

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN5895
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#### Auto Shutter

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	25	60	87	313	0.29	40	Square	Standard	FAN0136
									Pull Cord	FAN0137
									Timer	FAN0138

#### Standard

Designer QUIET	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	22	138	114	410	0.19	41	Square	Standard	FAN7190
									Timer	FAN7191
									Humidity Control	FAN7192

Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	20	60	101	364	0.20	40	Square	Standard	FAN0621
									Timer	FAN0623

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	25	60	101	364	0.25	40	Square	Standard	FAN0135
									Pull Cord	FAN0140
									Timer	FAN0141



### Window Fans

These axial fans are designed for installation situations where an existing window fan is being replaced or where there is no available external wall, or ceiling, space access. SELV fans are designed for use in wet area zones 1, 2 and 3 and incorporate a 12V AC motor and a 12V AC isolating transformer. Auto shutter models have automated backflow prevention vanes. 5 year warranty.

#### Safety Extra Low Voltage (SELV) & Auto Shutter

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	25	60	87	313	0.29	40	Square	Pull Cord	FAN5897
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#### Auto Shutter

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					



150	Axial	25	60	87	313	0.29	40	Square	Pull Cord	FAN0107
									Pull Cord Timer	FAN0109

### Kitchen Fans

CUCINA is a powerful 2 boost speed centrifugal extraction fan with a washable metal grease filter. The installation selectable speeds are suitable for kitchens (high speed) or laundries (medium). The fan is G4 and Healthy Homes compliant for kitchen extract ventilation levels (when installed in through wall applications at kitchen boost level) and also has a low speed for long term trickle ventilation. A plate fascia and fine filter kit is also available as a front grille alternative for laundry installations.

Designer CUCINA	Duct (mm)	Fan Type	Fan Speed and Application		Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
			High	Medium			(l/s)	(m³/hr)				



100	Centrifugal	High	Medium	Kitchen	Laundry	60	236	73	263	0.82	52	38	Pull Cord	FAN7201



Plate Fascia and Fine Filter Kit (order separately)												DCT4529
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Replacement Washable Metal Grease Filter (order separately)												DCT4562
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### Through Roof Fan Cowl and Through Roof Fan Kits

High quality aluminium cowl construction with fan incorporated. 2 year warranty.


#### Through Roof Fan Cowls - Air Extraction

Classic	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Centrifugal	70	320	153	550	0.46	62	Standard	FAN0529
		Centrifugal 3-Speed	70	320	153	550	0.46	62	Standard	FAN1002
		EC Axial	18	91	105	380	0.17	38	Standard	FAN0531


#### Through Roof Fan Kits with Flashing & HDPE Tube - Air Extraction

Classic	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Centrifugal	70	320	153	550	0.46	62	Standard	FAN0530
		Centrifugal 3-Speed	70	320	153	550	0.46	62	Standard	FAN0967
		EC Axial	18	91	105	380	0.17	38	Standard	FAN0532

#### Through Roof Fan Heavy Duty Kits with Flashing & HDPE Tube - Air Extraction

Classic	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Centrifugal	70	320	153	550	0.46	62	Standard	FAN0740
	150	EC Axial	18	91	105	380	0.17	38	Standard	FAN0739

#### Through Roof Fan Kits with Flashing for Metal Based Roof - Air Extraction


Classic	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Centrifugal	70	320	153	550	0.46	62	Standard	FAN0535
		EC Axial	18	91	105	380	0.17	38	Standard	DCT0189




### External Wall Fans

External wall fans are designed for use in residential and light commercial applications where a high performance, low noise solution is required. Three speed models enable further flexibility in a variety of applications. Specific applications include apartments where space is limited.

#### Standard

Classic	Duct (mm)	Fan Type	Scroll Dia. (mm)	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
						(l/s)	(m³/hr)				
	150	Axial	-	48	80	73	263	0.66	48	Standard	FAN2303
		Centrifugal	190	65	280	109	392	0.60	60	Standard	FAN2301
		Centrifugal	220	96	380	118	423	0.81	61	Standard	FAN2302



#### 3 Speed

Classic Standard Profile	Duct (mm)	Fan Type	Scroll Dia. (mm)	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code	
						(l/s)	(m³/hr)					
	150	Centrifugal	190	High	65	280	113	408	0.58	60	Standard	FAN2316
				Medium	57	250	94	340	0.61	56		
				Slow	55	200	77	277	0.71	46		
		Centrifugal	220	High	96	380	136	493	0.71	61	Standard	FAN2317
				Medium	69	340	113	408	0.61	56		
				Slow	60	280	94	340	0.64	50		



### Extraction Fans - Centrifugal

CONTOUR fans deliver simple compliance with current New Zealand Building Code G4/AS1 mandatory mechanical extract ventilation system requirements. As well as providing application room specific performance, Contour **Toilet** and **Bathroom** fans have a comprehensive range of stylish, interchangeable fascia to choose from.


CONTOUR Bathroom Fan	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	150	Centrifugal	45	147	77	276	0.58	40	Range Selection (see below)	Standard	FAN7031
CONTOUR Toilet Fan	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	100	Centrifugal	30	93	49	175	0.61	38	Range Selection (see below)	Standard	FAN7030

### Fascia Selections

Fan	Round				Square			
	White	Black	LED White	LED Black	White	Black	LED White	LED Black
 + 								
<b>Toilet</b>	DCT4502	DCT4503	DCT4506	DCT4507	DCT4504	DCT4505	DCT4508	DCT4509
<b>Bathroom</b>	DCT4710	DCT4511	DCT4714	DCT4515	DCT4712	DCT4513	DCT4516	DCT4517


### Inline Fans - Mixed Flow

The powerful MixFlo fans have been designed to produce higher working pressures for applications that require higher airflows with low relative noise levels. These large bore fans are designed for use with both rigid and flexible ducting. They offer two and half times the pressure of conventional axial fans and are dimensionally more compact making them ideal for many ducted applications. The impeller blade design with guide vanes provides optimum pressure characteristics. The fan can operate in both horizontal and vertical positions. Supported by a 4 year warranty or 30,000 continuous hours.

Pro-Series MIXFLO 2 Speed	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	125	Mixed Flow	40	220	89	320	0.45	43	Standard	FAN1005
			26	160	72	260	0.36	36	Plug & Lead	FAN1051

### Inline Extraction Fan Kits without Lights

This kit is designed so that the interior grille can be mounted directly above your steam source (eg: shower or bath). A low profile fascia is supplied with a choice of stylish grilles. Mixed flow fans provide users with a two fan speed option. 5 year warranty.


Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Mixed Flow	40	220	89	320	0.45	Round White	Weatherproof Cowl White and Fixed Louvre White	Standard	FAN2050
			26	160	72	260	0.36				






**Extraction Fans - THROUGH WALL MOUNTED ONLY**

These axial fans are designed for easy installation and efficient operation. SELV (safety extra low voltage) fans are for use in wet area zones 1, 2 and 3 and incorporate a 12V AC motor and a 12V AC isolating transformer. Auto shutter models have automated backflow prevention vanes. 5 year warranty.

The new high-pressure and energy-efficient QUIET fans have ultra-high airflow without nuisance noise and are designed to be ducted straight through a bathroom or kitchen exterior wall. 5 year warranty.



Safety Extra Low Voltage (SELV)											
Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN5886
									Round	Standard	FAN5885
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN5890




Standard												
Designer QUIET	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code	
					(l/s)	(m³/hr)						
	125	Axial	15	68	54	194	0.28	38	Square	Standard	FAN7180	
										Timer	FAN7181	
										Humidity Control	FAN7182	
Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code	
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN0589	
										Timer	FAN0590	
										Round	Standard	FAN0604
											Timer	FAN0605
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code	
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN0072	
										Pull Cord	FAN0074	
										Timer	FAN0075	

**Through Wall Fan Kits**

These axial fan kits are easy to install and are designed to be ducted straight through an exterior wall. SELV (safety extra low voltage) fans are for use in wet area zones 1, 2 and 3 and incorporate a 12V AC motor and a 12V AC isolating transformer. Auto shutter models have automated backflow prevention vanes. 5 year warranty.

The new high-pressure and energy-efficient QUIET fan kits have ultra-high airflow without nuisance noise and are designed to be ducted straight through a bathroom or kitchen exterior wall. All kits include a weatherproof cowl. 5 year warranty.

Safety Extra Low Voltage (SELV)											
Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN5887
									Round	Standard	FAN5888
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN5889

Standard											
Designer QUIET	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	15	68	54	194	0.28	38	Square	Standard	FAN7187
										Timer	FAN7188
										Humidity Control	FAN7189
Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN0614
										Timer	FAN0615
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
	125	Axial	20	35	36	130	0.56	41	Square	Standard	FAN0080
										Pull Cord	FAN0082
										Timer	FAN0083





### Through Wall Fan Kits - Intelligent Sensing Automation

#### FOR CONTINUOUS OPERATION COMPLIANCE ONLY

IntelliVent fans are sensor operated complete with adjustable speed control and LED function indication. Easy access to the control panel provides for simple and exact adjustment of settings. Includes energy efficient DC motor. 5 year warranty.



The GENIUS is the new generation of unitary fans. Following installation home owners automatically have a ventilation system offering a wide range of standard default operating settings which can be easily customised via an intuitive App. Includes energy efficient DC motor.


Designer INTELLIVENT	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	125	DC Axial	8	21	37	134	0.22	21	Rectangle	Auto Sense Humidity	FAN5901

Designer GENIUS	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Fascia	Switching	Product Code
					(l/s)	(m³/hr)					
	100	DC Axial	4	30	30	108	0.13	17-20	Round	App Control	FAN6844

### Heat-Fan-Light Systems


These multi-function systems are designed to meet the higher operational demands of both small and large bathrooms. Fans incorporate a unique anti-condensate design and efficient heating system. All systems are supplied with duct, grille and wall switch.

Designer Low Profile	Duct (mm)	Fan Type	Total Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Heating	Fascia	Order Code
					(l/s)	(m³/hr)			
	150	2 x Centrifugal	2115	145	106	380	2 Level PTC 1100W/2000W	White	FAN7020
								Black	FAN7021
	150	Centrifugal	1080	146	99	356	1 x 1000W Halogen	White	FAN5876

Pro-Series Vivo	Duct (mm)	Fan Type	Total Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Heating	Fascia	Order Code
					(l/s)	(m³/hr)			
	125	Centrifugal	2100	115	92	330	2 Level PTC 1400W/2000W	White	FAN7291

### Inline Fans - Centrifugal


Centrifugal fans create high pressure airflows and are best suited for high pressure applications such as drying and air conditioning systems. 2 year warranty.

Classic High Performance	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	150	Centrifugal	57	320	124	445	0.46	50	Standard	FAN0330




### Inline Fans - Mixed Flow

The powerful MixFlo fans have been designed to produce higher working pressures for applications that require higher airflows with low relative noise levels. These large bore fans are designed for use with both rigid and flexible ducting. They offer two and half times the pressure of conventional axial fans and are dimensionally more compact making them ideal for many ducted applications. The impeller blade design with guide vanes provides optimum pressure characteristics. The fan can operate in both horizontal and vertical positions. Supported by a 4 year warranty or 30,000 continuous hours.

Pro-Series MIXFLO 2 Speed	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	100	Mixed Flow	40	180	69	250	0.58	40	Standard	FAN1004
			26	120	53	190	0.49	33	Plug & Lead	FAN1050




### Inline Fans - Centrifugal

Centrifugal fans create high pressure airflows and are best suited for high pressure applications such as drying and air conditioning systems. Suitable for a variety of domestic applications, these inline centrifugal 3 speed fans provide high performance at your pre-set choice of speed and can also be used for supply. 2 year warranty.

Classic High Performance	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching	Product Code
					(l/s)	(m³/hr)				
	100	Centrifugal	32	153	49	176	0.65	38	Standard	FAN0361


### Inline Extraction Fan Kits without Lights

These kits are designed so that the interior grille can be mounted directly above your steam source (eg: shower or bath). Kits with the low profile fascia are supplied with a choice of stylish grilles. Mixed flow fans provide users with a two fan speed option. 5 year warranty.

Pro-Series Low Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	100	Mixed Flow	40	180	69	250	0.58	Round White	Weatherproof Cowl White and Fixed Louvre White	Standard	FAN2049
			26	120	53	190	0.49				
Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	20	35	36	130	0.56	Round White	Fixed Louvre White	Standard	FAN0064
										Timer	FAN0065
	100	Centrifugal	20	120	31	110	0.65	Round White	Fixed Louvre White	Standard	FAN0328


### Inline Extraction Fan Kits with LED Lights

These high efficiency inline fans are designed to provide higher levels of extraction for larger bathrooms and the LED light adds light directly above your steam source (eg: shower or bath). 5 year warranty.

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	20	35	36	130	0.56	Round White	Eggcrate White	Standard	FAN5371
										Timer	FAN5372

### Inline Extraction Fan Kits with Halogen Lights

These high efficiency inline fans are designed to provide higher levels of extraction for larger bathrooms and the halogen light adds light directly above your steam source (eg: shower or bath). 5 year warranty.

Classic Standard Profile	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Fascia	Exterior Grille	Switching	Product Code
					(l/s)	(m³/hr)					
	125	Axial	20	35	36	130	0.56	Round White	Eggcrate White	Standard	FAN2037
										Timer	FAN2038

## DESIGNED FOR HEALTHY HOMES STANDARD - BATHROOMS



### Heater-Fan-Light Systems

This multi-function system is designed to meet the higher operational demands of both small and large bathrooms. Fans incorporate a unique anti-condensate design and efficient heating system. System is supplied with duct, grille and wall switch.

Designer Low Profile	Duct (mm)	Fan Type	Total Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Heating	Fascia	Order Code
					(l/s)	(m³/hr)			
	150	Centrifugal	1100	146	69	248	1 x 1000W Halogen	White	FAN6577

### Heat-Fan-Light Systems

These multi-function systems are designed to meet the higher operational demands of both small and large bathrooms. Fans incorporate a unique anti-condensate design and efficient heating system. All systems are supplied with duct, grille and wall switch.

Designer Low Profile	Duct	Fan Type	Total Watts (W)	Free Air Fan Performance		Heat Lamps	Fascia	Product Code
				(l/s)	(m³/hr)			
	125	Centrifugal	1138	84	303	4 x 275W	White	FAN6882
	125	Centrifugal	588	75	270	2 x 275W	Silver	FAN6883
	125	Centrifugal	588	75	270	2 x 275W	White	FAN6880
	125	Centrifugal	588	75	270	2 x 275W	Silver	FAN6881
Pro-Series Low Profile	Duct	Fan Type	Total Watts (W)	Free Air Fan Performance		Heat Lamps	Fascia	Product Code
	125	Centrifugal	1180	60	216			
	125	Centrifugal	635	50	180	2 x 275W	White	FAN0940

### Duct, Grilles and Accessories

#### Filtered Fresh Air Supply

Puro Filtered Passive Vent Kit	DCT4565
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#### Ducting

Aluminium Flexible Duct x 3m	
150mm	DCT0330
125mm	DCT0329
100mm	DCT0328

Acoustic Duct x 3m	
150mm	DCT0633

PVC Flexible Duct	
150mm x 3m	DCT0338
125mm x 4m	DCT0337
100mm x 5m	DCT0336

Semi-Rigid Duct x 3m	
150mm	DCT0116
125mm	DCT0115
100mm	DCT0114

#### Duct Accessories

Inline Backdraught Shutters	
150mm PVC	DCT0511
125mm PVC	DCT0036
100mm PVC	FAN0213

Duct Joiners	
150mm Metal	DCT0059
125mm Metal	DCT0037
100mm PVC	DCT0159

Door Grille	
Door Grille	FAN0159

Duct Connectors	
Cable Ties - 150mm	FAN0282
Cable Ties - 125mm	FAN0281
Cable Ties - 100mm	FAN0274
Duct Tape - 48mm x 5m	DCT0173
Duct Tape - 48mm x 30m	DCT0807

#### Interior Grilles/Soffit Grilles

Low Profile Grilles - Round Plastic	
150mm - Matte Black	DCT4401
150mm - Gloss White	DCT1067
125mm - Gloss White	DCT1090
100mm - Gloss White	DCT1089

Low Profile Grilles - Square Plastic	
150mm - Matte Black	DCT4259
150mm - Gloss Black	DCT4314
150mm - Gloss White	DCT2225
125mm - Gloss White	DCT2224
100mm - Gloss White	DCT2223

Standard Profile Grilles - Round Plastic	
150mm - Matte Black	DCT4257
150mm - Gloss Black	DCT4315

Flat Face Grilles - Square Plastic	
150mm - Matte Black	DCT4371

Eggcrate Grilles - White Plastic	
150mm	DCT0473
125mm	DCT0472
100mm	DCT0375



#### Exterior Grilles

Weatherproof Cowls (includes flap and bird mesh)	
150mm - Matte Black Plastic	DCT4261
125mm - Matte Black Plastic	DCT4399
100mm - Matte Black Plastic	DCT4400
150mm - Gloss Black Plastic	DCT4316
150mm - Gloss White Plastic	DCT1031
125mm - Gloss White Plastic	DCT1030
100mm - Gloss White Plastic	DCT0018
150mm - Stainless Steel	DCT3616
125mm - Stainless Steel	DCT3615
100mm - Stainless Steel	DCT3614

Gravity Shutter Grilles	
150mm - Black Plastic	DCT4320
150mm - White Plastic	DCT0066
125mm - White Plastic	DCT0044
100mm - White Plastic	DCT0029
150mm - Stainless Steel	DCT2147
125mm - Stainless Steel	DCT2146
100mm - Stainless Steel	DCT2145

Fixed Louvre Grilles - Square Plastic	
150mm - Matte Black	DCT4373
125mm - Matte Black	DCT4429
100mm - Matte Black	DCT4428
150mm - Gloss Black	DCT4319
150mm - Gloss White	DCT0063
125mm - Gloss White	DCT0041
100mm - Gloss White	DCT0025

#### Extraction Grilles

Extraction Grilles - Round Plastic	
150mm - Gloss White	DCT2187
125mm - Gloss White	DCT2186
100mm - Gloss White	DCT2185

#### Roof Cowl Kits

General Purpose with Flashing & HDPE Tube	
150mm	DCT0172
General Purpose with Lead Flashing & HDPE Tube	
150mm	DCT1095
Heavy Duty with Flashing & HDPE Tube	
150mm	DCT0710

#### Fan Timers

Timer - Fixed Run On Time (approx)		
Fan On Time	Run On Time	Code
up to 5 mins	7 mins	FAN0372
over 5 mins	12 mins	
Timer - Adjustable Run On Time & Start Delay		
Fan On Time	Run On Time	Code
up to 5 mins	up to 20 mins	FAN2444

#### Transformer

SELV Isolating Transformer 12V AC	
SELV Transformer	FAN0436

#### Replacement Lamps

LED MR16	
230V AC Silver GU10 4.5W	LHT0211
12V DC Silver GX5.3 3W	LHT0221
R80 Frosted 8W	LHT0979
Integrated 10W Silver Rim	LHT1085
Integrated 10W No Rim	LHT1107

Infrared Heat Lamps	
R125 ES 275W	LHT0081
214mm Linear R7S 1000W	LHT0326



# MANROSE®

Manrose leads the market in air movement and air extraction. Developed and designed to meet the specific application needs of the New Zealand market, Manrose fans perform to those exacting standards for the life of the product.

Manrose ducting, fans, fan kits and air movement accessories deliver elegance and innovation in reliable and durable solutions everytime.

For the full range of **MANROSE** fans, ducting, grilles, diffusers, hand dryers and accessories visit our website.

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Specifications are subject to change without notice.

Dealers Details