

extraction selection guide

MANROSE®



MANROSE BATHROOM FANS

www.simx.co.nz

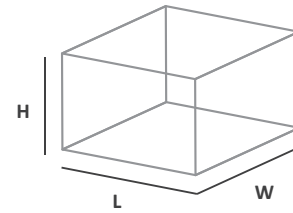
“proven reliable solutions”

Choose the right fan

Extraction fans should preferably be placed as close as possible to the steam source (e.g. over or near the shower). In-line fans are the most common solution as the grille can be placed directly above the steam source. Work through the steps below to identify the right fan for your application.

1. Calculate your room size

Calculate the volume of your room in cubic metres (m³). E.g: **2.8m x 2.6m x 2.4m = 17.47m³**.



2. Identify your extraction requirements

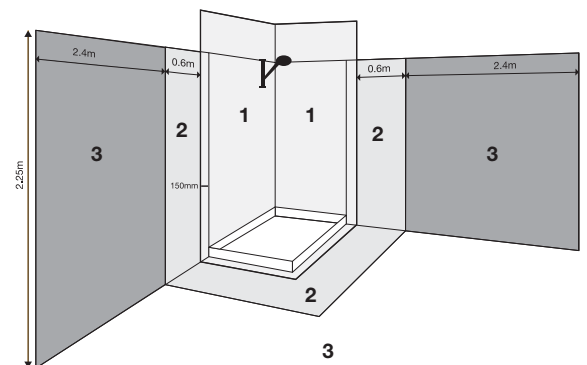
Air Changes Per Hour - ACH - is the term used to describe an airflow rate sufficient to remove/replace the total volume of air in a given room at a specified number of times each hour. Using the table below, multiply your calculated room size by the applicable ACH to identify the Performance required for your fan.

Room	Max. Room Area		ACH*	
Toilets , Laundries (no Dryer), Cellars, Offices	5 m ²	m ³ x	6 to 10	= m ³ /hr
Ensuites, Showers, Bathrooms	15 m ²		11 to 15	
Kitchens, Laundries (with Dryer)	20 m ²		15 to 20	

3. Consider your location

When considering where in the room to place an extractor fan, you must consider the wet areas. In New Zealand, the height of Zone 1 is 2.25m or, the height of the fixed plumbing connection, whichever is higher. Refer to the zones in the adjacent chart and diagram to identify if the location of your fan requires a Low Voltage or In-line Fan.

Zone 1	Requires a Low Voltage or In-line Fan
Zone 2	Any model fan can be used
Zone 3	Any model fan can be used

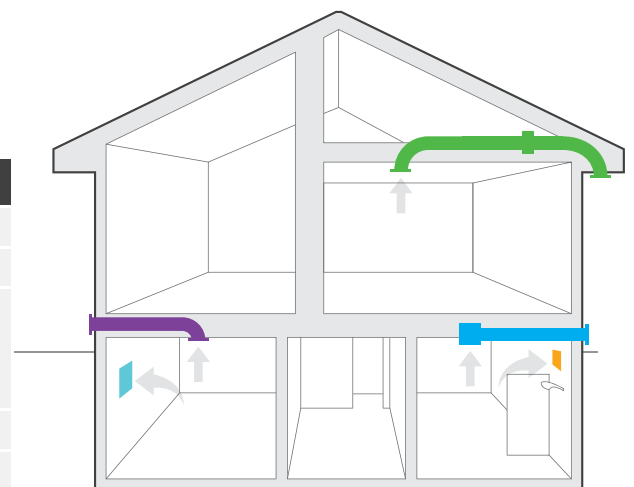


4. Select a fan type

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 (m³/h) greater than the performance calculated in Step 2.

Fan type	Application	Key
In-Line Fan Kits	Zone 1 wet areas	Green
Wall/Ceiling Fans & Kits	Wall and ceiling	Purple
Heat/Fan/Light Kits	Ceiling, multi-function	Blue
Designer Heat/Fan/LED Kits	Ceiling, multi-function, designer	
Extract-a-Lite & Extract-a-LED Kits	Zone 1 wet areas, integrated light	Light Blue
Thru Wall Kits	Wall	Teal
Safety Extra Low Voltage (SELV)	Zone 1 wet areas	Orange

Window Fans are also available



Standard models are listed here. Please visit our website for the full range of available Timer, Pull Cord, PIR and Low Voltage options.

For Specialised Fans please see Manrose Intellivent on the back page of this guide.

Wall/Ceiling Fans and Kits

These axial fans are designed for wall or ceiling mount, and to be easy to install, efficient to operate and have been upgraded with ball bearing motors to prolong the life of the motor. Pro-Series models feature a low profile design for an unobtrusive installation.

Pro-Series shower fan kit models are now supplied with a weatherproof cowl.



• FAN0621



• FAN0609



• FAN0589



• FAN0120



• FAN0121

Duct Size	Fan Type	Model	Performance	Fan Model (CS = Circular)	Wall/Ceiling Order Code	Application Key	Thru Wall Kit Order Code	Application Key
Pro-Series								
150mm	Axial	Standard	364m ³ /hr, 101 l/s	XFLP150SS	FAN0594	■	FAN0621	■
150mm	Axial	Standard	364m ³ /hr, 101 l/s	XFLP150CS	FAN0609		-	
125mm	Axial	Standard	130m ³ /hr, 36 l/s	XFLP125SS	FAN0589		FAN0614	
125mm	Axial	Standard	130m ³ /hr, 36 l/s	XFLP125CS	FAN0604		-	
Classic								
150mm	Axial	Standard	364m ³ /hr, 101 l/s	XF150S	FAN0120	■	FAN0135	■
150mm	Axial	Standard (Auto Shutter)	364m ³ /hr, 101 l/s	XF150A	FAN0121		FAN0136	
125mm	Axial	Standard	130m ³ /hr, 36 l/s	XF125S	FAN0072		FAN0080	
100mm	Axial	Standard	85m ³ /hr, 23 l/s	XF100S	FAN0046		FAN0053	

Safety Extra Low Voltage (SELV) Fan and Kits

These SELV axial fans are designed for wall or ceiling mounting in damp areas, zones 1, 2 and 3. The axial fans incorporate a 12 VAC motor and all fans and kits come with a SELV 12 VAC isolating transformer.

Duct Size	Fan Type	Model	Performance	Fan Model Square	Square Fan/Kit Order Code	Fan Model Circular	Circular Fan/Kit Order Code	Application Key
Pro-Series								
150mm	Axial	Standard / SELV	364m ³ /hr, 101 l/s	XFLP150SLV	FAN5892	XFLP150CLV	FAN5891	■
150mm	Axial	Standard / SELV	364m ³ /hr, 101 l/s	XPLP150SLV	FAN5894	XPLP150CLV	FAN5893	
125mm	Axial	Standard / SELV	130m ³ /hr, 36 l/s	XFLP125SLV	FAN5886	XFLP125CLV	FAN5885	
125mm	Axial	Standard / SELV	130m ³ /hr, 36 l/s	XPLP125SLV	FAN5887	XPLP125CLV	FAN5888	
Classic								
150mm	Axial	Standard / SELV	364m ³ /hr, 101 l/s	XP150LV	-	XP150LV	FAN5895	■
150mm	Axial	Standard / SELV	364m ³ /hr, 101 l/s	XF150LV	FAN5896	XF150LV	-	
150mm	Axial	Standard / Auto / SELV	364m ³ /hr, 101 l/s	WF150APLV	FAN5897	WF150APLV	-	
125mm	Axial	Standard / SELV	130m ³ /hr, 36l/s	XP125LV	-	XP125LV	FAN5889	
125mm	Axial	Standard / SELV	130m ³ /hr, 36 l/s	XF125LV	FAN5890	XF125LV	-	
100mm	Axial	Standard / SELV	85m ³ /hr, 23 l/s	XP100LV	-	XP100LV	FAN5882	
100mm	Axial	Standard / SELV	85m ³ /hr, 23 l/s	XF100LV	FAN5883	XF100LV	-	
100mm	Axial	Pull Cord / SELV	85m ³ /hr, 23 l/s	WF100PLV	FAN5884	WF100PLV	-	

Timer models are also available. Please visit our website for the full range of Manrose fans, kits and accessories.

Heat Fan Light Kits

Our multi-function Heat 'n Vent heat/fan/light units are designed to be easily installed into confined spaces. Classic models are suited to smaller bathrooms and ensuites, Pro-Series models have higher performance and feature swivel Halogen lights and a unique anti condensate feature. All systems come with duct, grille and wall switch.



• FAN0995



• FAN0940



• FAN2162



• FAN2200 (Light Only Model)

Duct Size	Fan Type	Fan Model	Performance	Fan Code	Application Key
Pro-Series					
125mm	Centrifugal	Pro-Series Heat 'n Vent 4	60 l/s, 216m ³ /hr	FAN0995	■
125mm	Centrifugal	Pro-Series Heat 'n Vent 2	50 l/s, 180m ³ /hr	FAN0940	
Classic					
100mm	Centrifugal	Heat 'n Vent 2	35 l/s, 126m ³ /hr	FAN2162	■
100mm	N/A	2 Heat 'n Light	N/A	FAN2200	

Manrose Heat Fan Light units have been tested to the Downlight standard AS/NZS60598.2.2 Amendment A and they are all classified as CA135.

In-Line Fan Kits

These systems are designed so the interior grille can be mounted directly above your steam source, i.e shower or bath. Upgraded shower fan kits are now supplied with a choice of grilles in the Pro-Series models, and with a stylish circular interior grille in the Classic models.



• FAN2051



• FAN0618



• FAN0101



• FAN0064

Duct Size	Fan Type	Fan Model	Performance	Fan Code	Application Key
Pro-Series					
150mm	Mixflow	MFLP150S	560m ³ /hr, 156 l/s	FAN2051	■
150mm	Axial Hyper	SFLP150S	394m ³ /hr, 109 l/s	FAN0618	
125mm	Mixflow	MFLP125S	320m ³ /hr, 89 l/s	FAN2050	
125mm	Centrifugal	SFLP125S	140m ³ /hr, 39 l/s	FAN0616	
100mm	Mixflow	MFLP100S	250m ³ /hr, 69 l/s	FAN2049	
Classic					
150mm	Axial Hyper	SF150	394m ³ /hr, 109 l/s	FAN0101	■
125mm	Axial	SF125S	130m ³ /hr, 36 l/s	FAN0064	
100mm	Centrifugal	SF200S	110m ³ /hr, 31 l/s	FAN0328	
100mm	Axial	SF100S	85m ³ /hr, 23 l/s	FAN0017	



Includes 2 options of exterior grille



Includes 2 options of low profile interior grilles



Includes a circular interior grille

Designer Heat Fan Light

These Designer series units are designed to add functionality with flair to your bathroom. Systems feature low profile designs and supplementary LED lighting. All systems come with duct, grille and wall switch.

Heat Fan Light



• FAN4463 LED HFL2

• FAN4465 LED HFL4

Designer Heater Fan Light

Heater Fan Light



• FAN6577 PANEL

• FAN5876 HALO

• FAN5875 PTC*

* PTC is perfect for light/warmth over basin/dry off area. We recommend using a dedicated extraction fan above the shower for a complete steam extraction solution.

Duct Size	Fan Type	Fan Model	Performance	Wattage	Heat	Fan Code	Application Key
Designer							
150mm	Centrifugal	LED HFL 2 - White	310m ³ /hr, 86 l/s	550 - 610W	2 x 275W Lamp	FAN4463	■
150mm	Centrifugal	LED HFL 2 - Silver	310m ³ /hr, 86 l/s	550 - 610W	2 x 275W Lamp	FAN4464	
150mm	Centrifugal	LED HFL 4 - White	310m ³ /hr, 86 l/s	1080 - 1180W	4 x 275W Lamp	FAN4465	
150mm	Centrifugal	LED HFL 4 - Silver	310m ³ /hr, 86 l/s	1080 - 1180W	4 x 275W Lamp	FAN4466	
150mm	Centrifugal	Heater FL - PANEL	248m ³ /hr, 69 l/s	1100W	1 x 1000W Halogen	FAN6577	
150mm	Centrifugal	Heater FL - HALO	248m ³ /hr, 69 l/s	1100W	1 x 1000W Halogen	FAN5876	
100mm	Centrifugal	Heater FL - PTC	79m ³ /hr, 22 l/s*	2250W	PTC (Positive Temperature Coefficient)	FAN5875	

Extract-a-Lite Kits - Halogen and LED

These kits are designed to add light directly above your steam source, i.e shower or bath. Available in halogen or LED, the ProSeries range also offers greater performance and enhanced style.



• FAN2033



• FAN5899



• FAN0803



• FAN5369

Duct Size	Fan Type	Model	Performance	Fan Model Halogen	Order Code Halogen	Fan Model LED	Order Code LED	Application Key
Pro-Series								
150mm	Axial Hyper	Standard	394m ³ /hr, 109 l/s	ELLP150WS - White	FAN2033	LED-ELLP150WS - White	FAN5375	■
150mm	Axial Hyper	Standard	394m ³ /hr, 109 l/s	ELLP150SS - Silver	FAN2034	LED-ELLP150SS - Silver	FAN5376	
150mm	Axial Hyper	Standard	394m ³ /hr, 109 l/s	-	-	LED-ELLPS150WS - White SQ	FAN5899	
125mm	Centrifugal	Standard	140m ³ /hr, 39 l/s	ELLP125WS - White	FAN2029	LED-ELLP125WS - White	FAN5379	
125mm	Centrifugal	Standard	140m ³ /hr, 39 l/s	ELLP125SS - Silver	FAN2030	LED-ELLP125SS - Silver	FAN5380	
Classic								
150mm	Axial Hyper	Standard	394m ³ /hr, 109 l/s	EL150S - White	FAN0803	LED-EL150S - White	FAN5369	■
125mm	Axial	Standard	130m ³ /hr, 36 l/s	EL125S - White	FAN2037	LED-EL125S - White	FAN5371	
100mm	Centrifugal	Standard	110m ³ /hr, 31 l/s	EL100S - White	FAN0420	LEDEL100S - White	FAN5373	

All kits include ducting, grille, tape and accessories for installation. Switches are not included unless stated.

Intellivent

Intellivent® 2.0 - Intelligent humidity management.

Intellivent® Celsius - Intelligent thru-wall heat transfer.

Super quiet (21 dB), super efficient (5W).

Low pressure continuous background ventilation.

Performance: 134m³/hr, 37 l/s.



Designer			
Duct Size	Fan Model	Switching Method	Fan Code
100/125mm	Intellivent 2.0	Auto Humidity	FAN5901
100/125mm	Intellivent Celsius	Auto Temperature	FAN6051

Ducting

ALUDUCT - Aluminium Flexible Duct x 3m

100mm	125mm	150mm
DCT0328	DCT0329	DCT0330

Aluminium foil laminated onto polyester film.

Temperature range: -10°C to 80°C.

UNILOK - FR1 Ducting

200mm	250mm	300mm
DCT1276	DCT1277	DCT1278

A UV resilient fire retardant 100µm black low density polyethylene material mechanically locked into an outer metal helix with a copper coated spring steel wire. Temperature range: -10°C to 80°C.

PVC Flexible Duct x 1m

100mm	125mm	150mm
DCT0936	DCT0937	DCT0938

Spiral wire reinforced PVC film construction. Properties include: fire retardant, non collapsing, non rotting, vapour-proof. Temperature range: 6°C to 50°C.

SEMIDUCT - Semi-Rigid Duct x 3m

100mm	125mm	150mm
DCT0114	DCT0115	DCT0116

Flexible but strong, spiral wound with continuous seam. Light yet self-supporting over long lengths. Temperature range: -30°C to 250°C.

Wall/Ceiling grilles

Eggcrate Grilles White

100mm	125mm	150mm
DCT0375	DCT0472	DCT0473

Low Profile Grilles White

100mm	125mm	150mm
DCT1089	DCT1090	DCT1067

Also available in satin silver & chrome.

Fixed Louvre Grilles White

100mm	125mm	150mm
DCT0025	DCT0041	DCT0063

Also available in grey & terracotta.

Wall/Ceiling grilles cont.

Gravity Shutter Grilles White

100mm	125mm	150mm
DCT0029	DCT0044	DCT0066

Also available in grey & terracotta.

Weatherproof Cowls (Includes Flap And Bird Mesh)

100mm	125mm	150mm
DCT0018	DCT1030	DCT1031

Circular Extraction Grilles

100mm	125mm	150mm
DCT2185	DCT2186	DCT2187

Accessory components

Back Draught Shutters

100mm	125mm	150mm
FAN0213	DCT0036	DCT0511

Duct Connectors

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

Fan Timer

Time Air	FAN0372
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Fixed fan timer that will automatically switch the appliance off after approximately 7 minutes.

Fully Adjustable Run-On Timer

Run-On Timer	FAN2444
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An easy to install Run-on Timer which can be fitted to most 'STANDARD' fans. Adjustable from 1 second to 90 minutes. Also includes a delay switch from 1 second to 5 minutes.

SELV Isolating Transformer 12VAC

SELV Transformer	FAN0436
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240VAC to 12VAC Safe Extra Low Voltage (SELV) transformer designed exclusively for low voltage fan applications.

Door Grille

Door Vent	FAN0159
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Fit to internal doors to allow make-up or replacement air into the room. 455mm x 90mm x 33mm (min) door thickness.

Duct Fasteners

Duct Strap 100mm diameter	FAN0274
Duct Strap 125mm diameter	FAN0281
Duct Strap 150mm diameter	FAN0282
Duct Tape 48mm x 5m	DCT0173
Duct Tape 48mm x 30m	DCT0807
Duct Tape AS4254 48mm x 60m	DCT1132



For the full range of Manrose Fans, Hand Dryers, Ducting, Grilles and Accessories visit our website: www.simx.co.nz | www.manrose.co.nz
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Dealers Details