

ventilation 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 (eg. over or near the shower). Inline fans are the most common solution as the grille can be placed directly above the steam source.

Which application you choose will be determined by the physical constraints of the room, then work through the steps below and ultimately personal preference and aesthetics will determine your fan selection.

Select your required application:

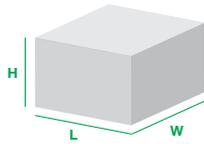
Eg: Bathrooms (11 - 15 air changes per hour).



“Air Changes per Hour” means an airflow rate sufficient to remove/replace the total volume of air in a given room at a specified number of times each hour.

Calculate the volume of the room in cubic metres (m³) by multiplying the length x width x height.

Eg: 2.8m x 2.6m x 2.4m = 17.47m³.



(Select a room volume range of 16-20m³).

Follow the selected room size row across & select one of the fan kits available based on your mounting requirements.

(See top headings and photos).

Eg: If you require a Thru Wall Kit then you can choose either the XP150 or XPLP150 kits.



Note: to calculate the fan performance:

Multiply the room volume (eg: 17.47m³) by the maximum recommended air changes (eg: bathroom = 15).

Eg: 17.47m³ x 15 = 262.083/hr.

An XP150 with a performance of 313m³/hr achieves this level.

Fan models

Fan switching options

S - Standard models - are generally switched from a light switch.

T - Timer models - this option incorporates a timer which will run on for up to 20 minutes after you switch off the fan.

P - Pull-Cord models - Pull-cord mechanism switches the fan.

A - Automatic Shutter models - When powered the fan starts immediately & the shutters open slowly after approx 20 seconds.

Ball bearing motors

All Manrose fans include ball bearing motors, as these are the highest quality bearing option available for fans. Fan reliability is a critical factor in fan performance, our quality ball bearing motors will ensure Manrose fans perform consistently over a number of years.

We are proud to support all Manrose fans with a 5 year warranty. All Manrose fans comply to required AS/NZS Standards.



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Fan Selection Guide

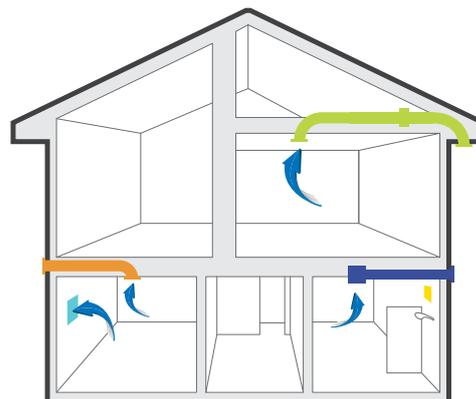
Application		Wall/Ceiling Mounted Fans	
		PRO SERIES	CLASSIC
Room Type	Room Size (m ³)		
<ul style="list-style-type: none"> Toilets Laundries - No Dryer Cellar Offices These rooms require between 6 and 10 ACH (Air Changes per Hour)	1 - 5m ³	XFLP125	XF125
	6 - 10m ³	XFLP125	XF125
	11 - 15m ³	XFLP150	XF150
<ul style="list-style-type: none"> Bathrooms Showers Ensuites These rooms require between 11 and 15 ACH (Air Changes per Hour)	1 - 10m ³	XFLP150	XF150
	11 - 15m ³	XFLP150	XF150
	16 - 20m ³	XFLP150 (18)	XF150 (18)
	21 - 30m ³		XFS230
<ul style="list-style-type: none"> Kitchens Laundries - With Dryer These rooms require between 15 and 20 ACH (Air Changes per Hour)	1 - 5m ³	XFLP150	XF150
	6 - 10m ³	XFLP150	XF150
	11 - 20m ³		XFS230

To help prevent condensation

Warm moist air is attracted to colder surfaces, where it condenses into water droplets. Cold surfaces include glass, mirrors, tiles, wet-wall linings, cold uninsulated ceiling linings, etc.

You cannot remove all of this air at a rate fast enough to stop this happening & if you could, you would be standing in a wind tunnel. Using a bathroom heater to warm the room prior to use greatly assists in reducing condensation by increasing the temperature of these cold surfaces.

Placement of your ventilation fan

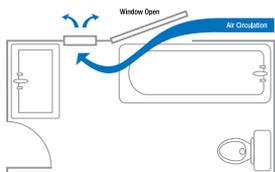


Thru Wall Fan Kits		Heat/Fan/Light Units		In-Line Fan Kits		Extract-A-Lite Kits	
PRO SERIES	CLASSIC	DESIGNER	PRO SERIES	PRO SERIES	CLASSIC	PRO SERIES	CLASSIC
XPLP125	XP125	LED HFL 2	Heat 'n Vent 2	SFLP125	SF125	ELLP125	EL100
XPLP125	XP125	LED HFL 2	Heat 'n Vent 2	SFLP125	SF125	ELLP125	EL125
XPLP150	XP150	LED HFL 2	Heat 'n Vent 4	SFLP150	SF150	ELLP150	EL150
XPLP150	XP150	LED HFL 2	Heat 'n Vent 2	SFLP150	SF150	ELLP125	EL150
XPLP150	XP150	LED HFL 2	Heat 'n Vent 4	SFLP150	SF150	ELLP150	EL150
XPLP150 (18)	XP150 (18)	LED HFL 2		SFLP150/ MKLP125	SF150	ELLP150	EL150
	XPS230	LED HFL 4		MKLP150			
XPLP150	XP150			SFLP150	SF150	ELLP125	EL150
XPLP150	XP150			SFLP150/ MKLP125	SF150	ELLP150	EL150
	XPS230			MKLP150			

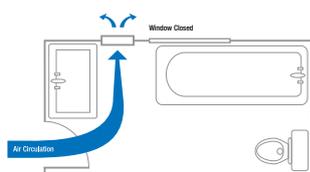
Consider your location within the room

Careful location of an extraction fan will ensure maximum air-flow through the room. Air extracted from a room should be replaced with dry air drawn from an adjacent room or hallway.

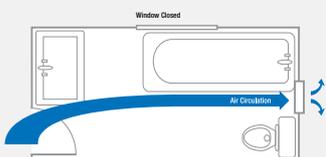
Make up air is the amount of air that needs to enter the room in order for the fan to work effectively.



Poor Circulation



Medium Circulation



Best Circulation

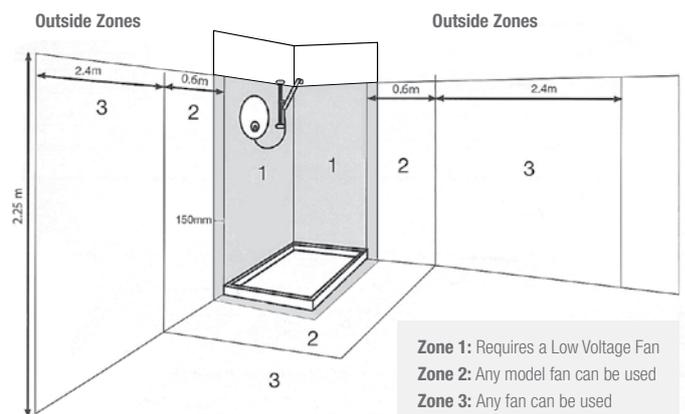
"Makeup air" is required for a fan to function efficiently. This is simply air that replaces the air that has already been extracted and can be achieved with a gap under the door or a grill in the door, we do not recommend opening a window.

Wet areas & recommended fan types

When considering where in the room to place an extractor fan, you must consider the wet areas.

For example a fan mounted directly over a bath or shower must be a low voltage fan if less than 2.25m off the floor.

In New Zealand, the height of Zone 1 is 2.25m or, the height of the fixed plumbing connection, whichever is higher.



MANROSE®

Manrose Classic products offer trusted performance and quality to meet the requirements of the market. These products are denoted in Black Text below.

Manrose Pro Series products have been designed to meet the requirements of the professional market with higher specifications and performance of the product. These products are denoted in Red Text below.

Manrose Designer units offer consumers the functionality of a high performance fan with a slim line design and energy efficient LED lamps. These products are denoted in Blue Text below.

MANROSE®
CLASSIC SERIES

MANROSE®
PRO-SERIES

MANROSE®
DESIGNER SERIES

WALL/CEILING MOUNTED FANS

Duct Size	Model No.	Switching Method	Fan Type	Free Air Performance	Order Code
PRO SERIES					
150mm	XFLP150SS*	Standard	Axial	87l/s, 313m³/hr	FAN0594
125mm	XFLP125SS*	Standard	Axial	36l/s, 130m³/hr	FAN0589
CLASSIC					
150mm	XF150S	Standard	Axial	87l/s, 313m³/hr	FAN0120
150mm	XF150A	Standard (Auto Shutter)	Axial	87l/s, 313m³/hr	FAN0121
125mm	XF125S	Standard	Axial	36l/s, 130m³/hr	FAN0072
100mm	XF100S	Standard	Axial	23l/s, 85m³/hr	FAN0046



Options available:

Timer | Pull-cord | PIR | Automatic Shutter | Low Voltage

Please Note:

1. If the Pro Series fans are mounted in the wall, you will need a minimum 110mm wall thickness.
2. Low Voltage models available for installation in damp areas.
- 3 *Circular fascia low profile option available, please request at point of order.

THRU WALL FAN KITS

Duct Size	Model No.	Switching Method	Fan Type	Free Air Performance	Order Code
PRO SERIES					
150mm	XP150SS	Standard	Axial	87l/s, 313m³/hr	FAN0621
125mm	XP125SS	Standard	Axial	36l/s, 130m³/hr	FAN0614
CLASSIC					
150mm	XP150S	Standard	Axial	87l/s, 313m³/hr	FAN0135
150mm	XP150A	Standard (Auto Shutter)	Axial	87l/s, 313m³/hr	FAN0136
125mm	XP125S	Standard	Axial	36l/s, 130m³/hr	FAN0080
100mm	XP100S	Standard	Axial	23l/s, 85m³/hr	FAN0053



Options available:

Timer | Pull-cord | PIR | Automatic Shutter | Low Voltage

Please Note:

1. If the Pro Series fans are mounted in the wall, you will need a minimum 110mm wall thickness.
2. If you require the circular low profile model please request a circular fascia at point of order.
3. Low Voltage Thru Wall Fans models available for installation in damp areas.



150mm models upgraded with Weatherproof Cowl.

HEAT/FAN/LIGHT UNITS

Duct Size	Model No.	Switching Method	Free Air Performance	Performance	Order Code
DESIGNER					
150mm	LED Heat Fan Light 2	Centrifugal	86l/s, 310m³/hr	73l/s, 263m³/hr	FAN4463
150mm	LED Heat Fan Light 4	Centrifugal	86l/s, 310m³/hr	73l/s, 263m³/hr	FAN4465
PRO SERIES					
125mm	Pro Series Heat 'n Vent 4	Centrifugal	67l/s, 240m³/hr	60l/s, 216m³/hr	FAN0995
125mm	Pro Series Heat 'n Vent 2	Centrifugal	63l/s, 226m³/hr	50l/s, 180m³/hr	FAN0940
CLASSIC					
100mm	Heat 'n Vent 2	Centrifugal	54l/s, 194m³/hr	35l/s, 126m³/hr	FAN2162
100mm	2 Heat 'n Light	N/A	N/A	N/A	FAN2200



Options available:

Silver

Please Note:

1. *Installed fan performance results tested with typical installation using 3m of duct and one bend.
2. All Heat/Fan/Light kits include 3 metres of duct, an exterior grille & switch plate.

IN-LINE FANS KITS

Duct Size	Model No.	Switching Method	Fan Type	Performance in free air	Order Code
PRO SERIES					
150mm	MKLP150S	Standard	Mixflow	156l/s, 560m ³ /hr	FAN2051
150mm	SFLP150S	Standard	Axial Whisp	94l/s, 340m ³ /hr	FAN0618
125mm	MKLP125S	Standard	Mixflow	89l/s, 320m ³ /hr	FAN2050
125mm	SFLP125S	Standard	Centrifugal	39l/s, 140m ³ /hr	FAN0616
100mm	MKLP100S	Standard	Mixflow	69l/s, 250m ³ /hr	FAN2049
CLASSIC					
150mm	SF150	Standard	Axial Hyper	89l/s, 320m ³ /hr	FAN0101
125mm	SF125S	Standard	Axial	36l/s, 130m ³ /hr	FAN0064
100mm	SF200S	Standard	Centrifugal	31l/s, 110m ³ /hr	FAN0328
100mm	SF100S	Standard	Axial	23l/s, 85m ³ /hr	FAN0017

These systems are designed so the interior grille can be mounted directly above your steam source, ie 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.



Models upgraded with Circular Interior Grille.



Options available:

Timer

Please Note:

- All kits include duct and interior & exterior grilles.
- *These Timer models include a fixed timer, which will operate for up to 12 minutes dependent on length of operation.

EXTRACT-A-LITE HALOGEN KITS

Duct Size	Model No.	Switching Method	Fan Type	Performance in free air	Order Code
PRO SERIES					
150mm	ELLP150WS - White	Standard	Axial Whisp	94l/s, 340m ³ /hr	FAN2033
150mm	ELLP150SS - Silver	Standard	Axial Whisp	94l/s, 340m ³ /hr	FAN2034
125mm	ELLP125WS - White	Standard	Centrifugal	39l/s, 140m ³ /hr	FAN2029
125mm	ELLP125SS - Silver	Standard	Centrifugal	39l/s, 140m ³ /hr	FAN2030
CLASSIC					
150mm	EL150S - White	Standard	Axial Hyper	89l/s, 320m ³ /hr	FAN0803
125mm	EL125S - White	Standard	Axial	36l/s, 130m ³ /hr	FAN2037
100mm	EL100S - White	Standard	Centrifugal	31l/s, 110m ³ /hr	FAN0420

These systems are designed so the Extract-a-Lite can be mounted directly above your steam source, ie 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.



Options available:

Timer

Please Note:

- All kits include duct, Extract-a-lite diffuser include lamp & exterior grille.
- Timer Options are available for all Extract-a-lite models.

EXTRACT-A-LED KITS

Duct Size	Model No.	Switching	Fan Type	Performance in free air	Order Code
PRO SERIES					
150mm	LED-ELLP150WS - White	Standard	Axial Whisp	94l/s, 340m ³ /hr	FAN5375
150mm	LED-ELLP150SS - Silver	Standard	Axial Whisp	94l/s, 340m ³ /hr	FAN5376
125mm	LED-ELLP125WS - White	Standard	Centrifugal	39l/s, 140m ³ /hr	FAN5379
125mm	LED-ELLP125SS - Silver	Standard	Centrifugal	39l/s, 140m ³ /hr	FAN5380
CLASSIC					
150mm	LED-EL150S - White	Standard	Axial Hyper	89l/s, 320m ³ /hr	FAN5369
125mm	LED-EL125S - White	Standard	Axial	36l/s, 130m ³ /hr	FAN5371
100mm	LED-EL100S - White	Standard	Centrifugal	31l/s, 110m ³ /hr	FAN5373

These systems are designed so the Extract-a-LED can be mounted directly above your steam source, ie shower or bath.



Options available:

Timer

Please Note:

- All kits include duct, Extract-a-LED diffuser include LED's & exterior grille.
- Timer Options are available for all Extract-a-LED models.

DUCTING

ALUDUCT - Aluminium Flexible Duct

Spiral wire reinforced laminate construction. Properties include: vapour-proof, fire resistant, aluminium/polyester laminate, non collapsing, non rotting, retains extended length. Temperature range -30°C to 140°C, silver finish.



100mm diameter x 3m	DCT0328
125mm diameter x 3m	DCT0329
150mm diameter x 3m	DCT0330
Complies with NZ Building Code fire rating requirements.	

PVC Flexible Duct

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



100mm diameter x 3m	DCT0336
125mm diameter x 4m	DCT0337
150mm diameter x 5m	DCT0338
Complies with NZ Building Code fire rating requirements.	

SEMIDUCT - Semi-Rigid Duct

Flexible but strong corrugated aluminium, spiral wound with a unique interlocked & knurled continuous seam. Light yet self-supporting over long lengths. Temperature range: -30°C to 250°C, silver finish.



100mm diameter x 1.5m	DCT0333
125mm diameter x 1.5m	DCT0334
150mm diameter x 1.5m	DCT0335
Complies with NZ Building Code fire rating requirements.	

UNILOK - FR1 Ducting

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, black finish.



100mm diameter x 3m	DCT1133
125mm diameter x 3m	DCT1134
150mm diameter x 3m	DCT0561
Complies with NZ Building Code fire rating requirements.	

WALL/CEILING GRILLES



EGGCRATE GRILLES	
100mm white eggcrate	DCT0375
125mm white eggcrate	DCT0472
150mm white eggcrate	DCT0473



LOW PROFILE GRILLES	
100mm white low profile	DCT1089
125mm white low profile	DCT1090
150mm white low profile	DCT1067
Also available in satin silver & chrome.	



FIXED LOUVRE GRILLES	
100mm white fixed louvre	DCT0025
125mm white fixed louvre	DCT0041
150mm white fixed louvre	DCT0063
Also available in grey & terracotta.	



GRAVITY SHUTTER GRILLES	
100mm white gravity shutter	DCT0029
125mm white gravity shutter	DCT0044
150mm white gravity shutter	DCT0066
Also available in grey & terracotta.	



WEATHERPROOF COWLS (Includes flap and bird mesh)	
100mm diameter	DCT0018
125mm diameter	DCT1030
150mm diameter	DCT1031



CIRCULAR EXTRACTION GRILLES	
100mm diameter	DCT2185
125mm diameter	DCT2186
150mm diameter	DCT2187

Manrose has an extensive range of ducting and accessories designed for residential applications.

From market leading flexible acoustic ducting, designed for low noise air transfer, to a complete range of air diffusion there is a product for every ventilation application.

ACCESSORY COMPONENTS



BACK DRAUGHT SHUTTERS

100mm diameter	FAN0213
125mm diameter	DCT0036
150mm diameter	DCT0511



DUCT CONNECTORS

100mm plastic connector	DCT0159
125mm metal connector	DCT0037
150mm metal connector	DCT0059



FAN TIMER

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

Time Air	FAN0372
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FULLY ADJUSTABLE RUN-ON TIMER

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.

Run-On Timer	FAN2444
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DOOR GRILLE

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

Door Vent	FAN0159
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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

Dealers Stamp:

MANROSE

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

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