

ventilation selection guide

MANROSE®



MANROSE BATHROOM FANS

www.securimax.co.nz

“proven reliable solutions”

1 Select your required application

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

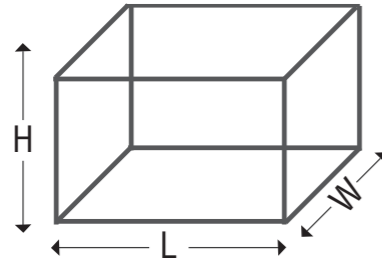


"Air Changes per Hour" means an airflow rate sufficient to remove/replace the total volume of air in a given room at a specified number of times each hour

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

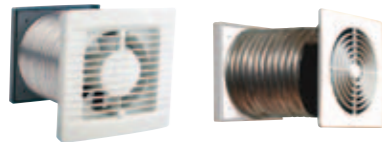
Eg: 2.8m x 2.6m x 2.4m = 17.47m³

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



3 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.

Application		Wall/Ceiling Fans		Thru Wall Fan Kits		Heat/Fan/Light Units	In-Line Fan Kits		Extract-A-Lite Kits		Window Fans	Thru Roof Fan Kits
Room Type	Room Size (m³)	Pro Series	Classic	Pro Series	Classic	Pro Series	Pro Series	Classic	Pro Series	Classic	Classic	Classic
- Toilets - Laundries - No drier - Cellar - Offices These rooms require between 6 and 10 ACH (Air Changes per Hour)	1-5m³	XFLP125	XF125	XPLP125	XP125	Heat 'n Vent 2	SFLP125	SF125	ELLP125	EL100	WF150	HYPER
	6-10m³	XFLP125	XF125	XPLP125	XP125	Heat 'n Vent 2	SFLP125	SF125	ELLP125	EL125	WF150	HYPER
	11-15m³	XFLP150	XF150	XPLP150	XP150	Heat 'n Vent 4	SFLP150	SF150	ELLP150	EL150	WF150	HYPER
- Bathrooms - Showers - Ensuites These rooms require between 11 and 15 ACH (Air Changes per Hour)	1-10m³	XFLP150	XF150	XPLP150	XP150	Heat 'n Vent 2	SFLP150	SF150	ELLP125	EL150	WF150	HYPER
	11-15m³	XFLP150	XF150	XPLP150	XP150	Heat 'n Vent 4	SFLP150	SF150	ELLP150	EL150	WF150	HYPER
	16-20m³	XFLP150 ₍₁₈₎	XF150 ₍₁₈₎	XPLP150 ₍₁₈₎	XP150 ₍₁₈₎		SFLP150/MKLP125	SF150	ELLP150	EL150	WF150 ₍₁₈₎	ULTRA
	21-30m³		XFS230		XPS230		MKLP150				WF230	ULTRA
- Kitchens - Laundries - With drier These rooms require between 15 and 20 ACH (Air Changes per Hour)	1-5m³	XFLP150	XF150	XPLP150	XP150		SFLP150	SF150	ELLP125	EL150	WF150	HYPER
	6-10m³	XFLP150	XF150	XPLP150	XP150		SFLP150/MKLP125	SF150	ELLP150	EL150	WF150	HYPER
	11-20m³		XFS230		XPS230		MKLP150				WF230	ULTRA

Note: All selections are based on installed fan performance and maximum air change rates (figures in brackets show actual air changes stated if less than maximum).

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

Ball Bearing motors are the highest quality bearing option available for fans. As part of our commitment to product development and improvement all Manrose fans have been upgraded to include ball bearing motors.

With fan reliability a critical factor in fan performance, our quality ball bearing motors will ensure Manrose fans perform consistently over a number of years.

As a result of this we are proud to support all Manrose fans with a 5 year warranty.

All Manrose fans comply to AS/NZS 3350.2.80:1998 A1-4



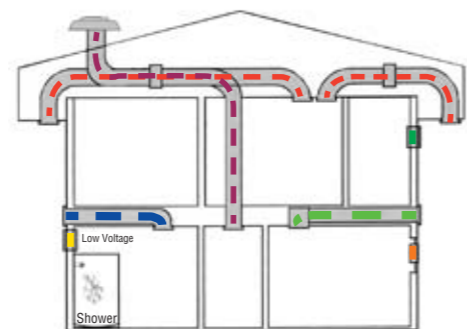
PLACEMENT OF YOUR VENTILATION FAN

1. To Prevent Condensation

Warm moist air is immediately attracted to cold 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.

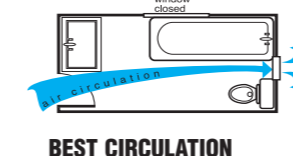
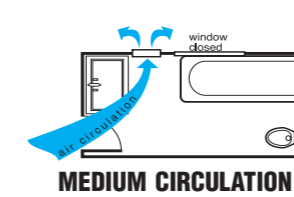
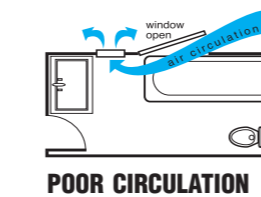
2. Locate your Ventilation Fan



3. Consider your Location within the Room

Careful location of an extraction fan will ensure maximum air-flow through the room. Air extracted from a bathroom 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 bathroom in order for the fan to work effectively.

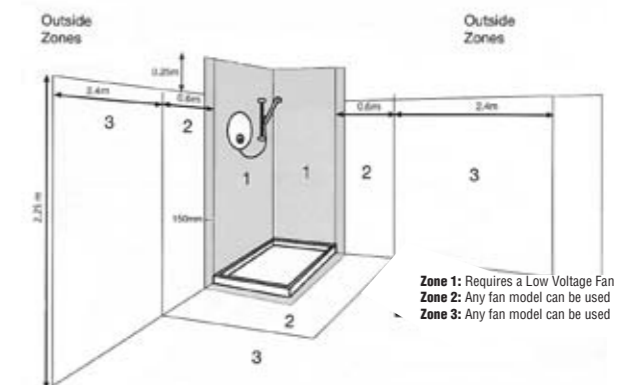


Note: A door vent may be used to supplement make-up airflow
Order Code: FAN0159

4. 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.



FAN SPECIFICATIONS

MANROSE® Proven Reliable Solutions

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.

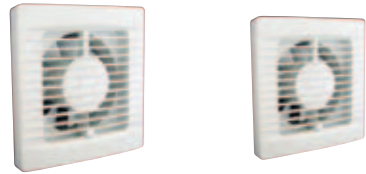
MANROSE
CLASSIC

MANROSE
PRO-SERIES

CEILING OR WALL MOUNTED FANS



XFLP150 Circular Fascia Option



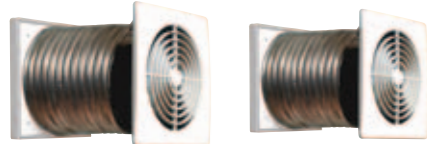
XF150 XF125

Options available:
Timer • Pull-cord • PIR • Automatic Shutter • Low Voltage

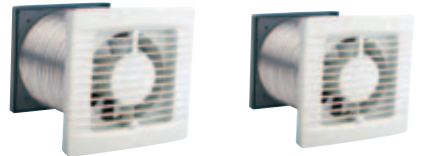
Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
PRO SERIES					
150mm	XFLP150SS**	Standard	Axial	87l/s, 313m³/hr	FAN0594
150mm	XFLP150ST**	Timer	Axial	87l/s, 313m³/hr	FAN0595
125mm	XFLP125SS**	Standard	Axial	36l/s, 130m³/hr	FAN0589
125mm	XFLP125ST**	Timer	Axial	36l/s, 130m³/hr	FAN0590
CLASSIC					
150mm	XF150S	Standard	Axial	87l/s, 313m³/hr	FAN0120
150mm	XF150T	Timer	Axial	87l/s, 313m³/hr	FAN0127
150mm	XF150A	Standard (Auto Shutter)	Axial	87l/s, 313m³/hr	FAN0121
125mm	XF125S	Standard	Axial	36l/s, 130m³/hr	FAN0072
125mm	XF125T	Timer	Axial	36l/s, 130m³/hr	FAN0075
100mm	XF100S	Standard	Axial	23l/s, 85m³/hr	FAN0046

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.
* All Fan performance figures listed above are in free air.
** Circular fascia low profile option available, please request at point of order.

THRU WALL FAN KITS



XPLP150 XPLP125



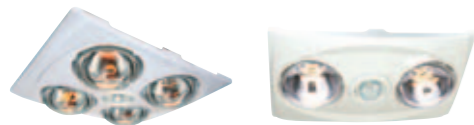
XP150 XP125

Options available:
Timer • Pull-cord • PIR • Automatic Shutter • Low Voltage

Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
PRO SERIES					
150mm	XPLP150SS	Standard	Axial	87l/s, 313m³/hr	FAN0621
150mm	XPLP150ST	Timer	Axial	87l/s, 313m³/hr	FAN0623
125mm	XPLP125SS	Standard	Axial	36l/s, 130m³/hr	FAN0614
125mm	XPLP125ST	Timer	Axial	36l/s, 130m³/hr	FAN0615
CLASSIC					
150mm	XP150S	Standard	Axial	87l/s, 313m³/hr	FAN0135
150mm	XP150T	Timer	Axial	87l/s, 313m³/hr	FAN0141
150mm	XP150A	Standard (Auto Shutter)	Axial	87l/s, 313m³/hr	FAN0136
125mm	XP125S	Standard	Axial	36l/s, 130m³/hr	FAN0080
125mm	XP125T	Timer	Axial	36l/s, 130m³/hr	FAN0083
100mm	XP100S	Standard	Axial	23l/s, 85m³/hr	FAN0053

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.
4. Comes complete with semi-rigid duct and gravity grille.
Note: All fan performance figures listed above are in free air.

HEAT/FAN/LIGHT UNITS



HEAT 'n VENT 4 HEAT 'n VENT 2

Options available:
Satin Silver fascia

Duct Size	Model No.	Fan Type	Performance (Free air)	Performance (*Installed)	Order Code
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	Light 'n Vent 1	Centrifugal	74l/s, 265³/hr	51l/s, 184m³/hr	FAN0539
100mm	2 Heat 'n Light	N/A	N/A	N/A	FAN2200

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

FAN SPECIFICATIONS

IN-LINE FAN KITS



MKLP150 SFLP150



SF150 SF100/SF125

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

Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
PRO SERIES					
150mm	MKLP150S	Standard	Mixflow	156l/s, 560m³/hr	FAN2051
150mm	SFLP150S	Standard	Axial Whisp	94l/s, 340m³/hr	FAN0618
150mm	SFLP150T**	Timer	Axial Whisp	94l/s, 340m³/hr	FAN0619
125mm	MKLP125S	Standard	Mixflow	89l/s, 320m³/hr	FAN2050
125mm	SFLP125S	Standard	Centrifugal	39l/s, 140m³/hr	FAN0616
125mm	SFLP125T	Timer	Centrifugal	39l/s, 140m³/hr	FAN0617
100mm	MKLP100S	Standard	Mixflow	69l/s, 250m³/hr	FAN2049
CLASSIC					
150mm	SF150	Standard	Axial Hyper	89l/s, 320m³/hr	FAN0101
150mm	SF150T**	Timer	Axial Hyper	89l/s, 320m³/hr	FAN0102
125mm	SF125S	Standard	Axial	36l/s, 130m³/hr	FAN0064
125mm	SF125T	Timer	Axial	36l/s, 130m³/hr	FAN0065
100mm	SF200S	Standard	Centrifugal	31l/s, 110m³/hr	FAN0328
100mm	SF200T	Timer	Centrifugal	31l/s, 110m³/hr	FAN0329
100mm	SF100S	Standard	Axial	23l/s, 85m³/hr	FAN0017
100mm	SF100T	Timer	Axial	23l/s, 85m³/hr	FAN0018

Please Note:
1. All kits include duct and interior & exterior grilles.
* All Fan performance figures listed above are in free air.
** These Timer models include a fixed timer, which will operate for up to 12 minutes dependent on length of operation.

EXTRACT-A-LITE KITS



ELLP150 EL150

Options available: Timer
These systems are designed so the Extract-a-Lite can be mounted directly above your steam source, ie shower or bath.

Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
PRO SERIES					
150mm	ELLP150WS - White	Standard	Axial Whisp	94l/s, 340m³/hr	FAN2033
150mm	ELLP150SS - Silver	Standard	Axial Whisp	94l/s, 340m³/hr	FAN2034
125mm	ELLP125WS - White	Standard	Centrifugal	39l/s, 140m³/hr	FAN2029
125mm	ELLP125SS - Silver	Standard	Centrifugal	39l/s, 140m³/hr	FAN2030
CLASSIC					
150mm	EL150S - White	Standard	Axial Hyper	89l/s, 320m³/hr	FAN0803
125mm	EL125S - White	Standard	Axial	36l/s, 130m³/hr	FAN2037
100mm	EL100S - White	Standard	Centrifugal	31l/s, 110m³/hr	FAN0420

Please Note:
1. All kits include duct, extract-a-lite diffuser incl. lamp & exterior grille.
2. Timer Options are available for all Extract-a-lite models.
* All Fan performance figures listed above are in free air.

WINDOW FAN KITS



WF100 WF150

Options available: Pull-cord • Automatic Shutter

Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
CLASSIC					
230mm	WF230P	Pull-cord (Manual Shutter)	Axial	152l/s, 550m³/hr	FAN0148
230mm	WF230AP	Pull-cord (Auto Shutter)	Axial	152l/s, 550m³/hr	FAN0146
150mm	WF150MP	Pull-cord (Manual Shutter)	Axial	87l/s, 313m³/hr	FAN0110
150mm	WF150AP	Pull-Cord (Auto Shutter)	Axial	87l/s, 313m³/hr	FAN0107
100mm	WF100P	Pull-cord	Axial	23l/s, 85m³/hr	FAN0021

Please Note:
* All Fan performance figures listed above are in free air.

THRU-ROOF FAN KITS



HYPER GENERAL PURPOSE

Duct Size	Model No.	Switching Method	Fan Type	Performance*	Order Code
CLASSIC					
150mm	Ultra**	Standard	Centrifugal	130l/s, 468m³/hr	FAN0535
150mm	Hyper	Standard	Axial	80l/s, 288m³/hr	DCT0189
150mm	General Purpose***	Standard	Not Applicable	Not Applicable	DCT0172

Please Note:
* All Fan performance figures listed above are in free air.
** The Ultra is ideal for bathroom steam extraction etc.
All components supplied except the silicone sealant for the underside of the roof flashing.
*** The General Purpose Thru Roof Kit is an ideal way to vent through the roof.
The kit contains roof cowl, tubing, Deklite, approved fastenings & metal fastening bracket.

FAN ACCESSORIES

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

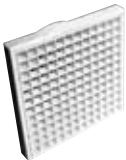
A UV resilient fire retardant 100µm black low density polyethylene material mechanically locked into an outer metal helix with a copper coated spring steel wire. Temperature range: -10°C to 80°C, black finish.



- 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



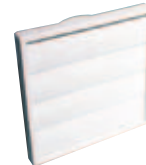
- 100mm white low profile DCT1089
- 125mm white low profile DCT1090
- 150mm white low profile DCT1067
- Also available in satin silver & chrome.

FIXED LOUVRE GRILLES



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

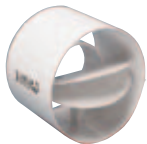
GRAVITY SHUTTER GRILLES



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

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

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

WEATHER PROOF COWLS



- 100mm diameter DCT0018
- 125mm diameter DCT1030
- 150mm diameter DCT1031

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

DUCT FASTENERS



- Duct Strap 100mm diameter FAN0274
- Duct Strap 125mm diameter FAN0281
- Duct Strap 150mm diameter FAN0282
- Duct Tape 48mm x 5m DCT0173

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