

MANROSE®

Quality Ventilation

Manufacturers of ventilation Fans and Equipment



NEW Part L Regulation Energy Saving Products



Effective from 1st October

“Saving your money and our environment”

Energy Efficiencies

With the 2010 changes to the Building Regulations, as well as minimum airflow requirements (Approved Document F) there are now minimum energy efficiencies required (Approved Document L) The new range from Manrose offers a complete product range and all designed to comply with the requirements. The new regulations require a minimum specific fan power as minimum energy efficiency. This is measured in watts per litre a second of airflow extracted and all models in the new range comply. The table below shows the minimum specific fan powers required to comply with the new building regulations



New and replacement systems

1.0 Fan Power

a. Mechanical ventilation systems should be designed to minimise electric fan power. Specific fan power (SFP) should not be worse than:

- i. **0.5 Watts per litres per seconds for intermittent extract ventilation systems**
- ii. **0.7 Watts per litres per seconds for continuous extract ventilation systems**
- iii. **1.5 Watts per litres per seconds for continuous supply and extract with heat recovery ventilation systems**

2.0 Heat Recovery Efficiency

a. The heat Recovery efficiency of balanced mechanical ventilation systems incorporating heat recovery should not be worse than 70%

3.0 Controls

- a. Intermittent Mechanical extract ventilation systems should be operated by local manual switches or automatically by a presence sensor
- b. All other mechanical ventilation systems should have manual or automatic control of the boost facility

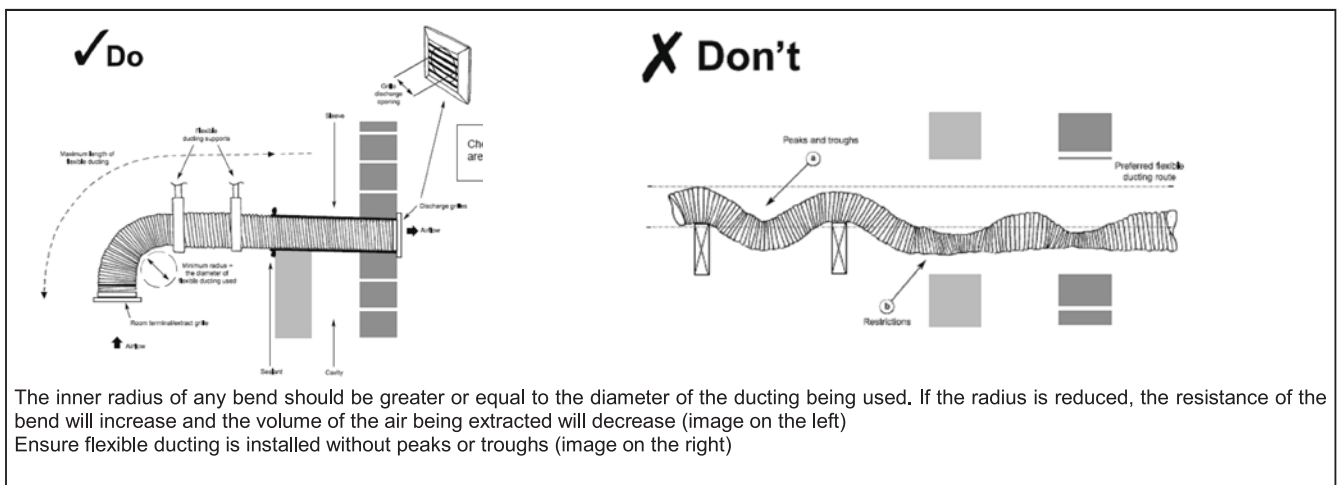
Installed Performance – It needs to comply

In the new regulations there is now a requirement for the installer to sign off the installation. This will include airflow measurements. The new Green range from Manrose are designed to comply with the installation requirements as set out in the domestic Ventilation Guide as part of Approved Document F When installing there are a few simple rules that will help as shown below:

Installation Introduction

This guide provides basic guidance for persons installing fixed ventilation systems in new and existing dwellings to help to comply with installation and commissioning requirements in the 2010 part F and the 2010 part L of the building regulations for England and Wales. Rectangular or circular rigid duct should be used wherever possible, if necessary, flexible ducts may be used, however, these lengths should be kept to a minimum,

connecting to rigid ductwork as soon as possible. You are limited to a maximum of 1.5m of flexible ductwork when connecting to axial fans; for centrifugal fans you are limited to 6 metres (for extract rates of 6 to 30 l/s) and 3 metres (for extract rates of 31 to 60 l/s). You are able to incorporate up to 2 bends in a system up to 30l/s, this then reduces to 1 bend for higher extract rates. Flexible ducting should be pulled taught to minimise resistance, this is considered to be achieved if extended at least 90% of the total duct length. Ductwork should be insulated when it passes through unheated areas and voids. (please see our product catalogue for information) Horizontal Ducting, including ducting in walls, should be installed with a slight slope downwards away from the fan to prevent backflow of any moisture. Vertical ducting will require a condensate trap in order to prevent backflow of any moisture into the product (please see our product catalogue for information)



4" Lo-Watt™ Range

The Lo-Watt range of wall fans can dramatically reduce power consumptions by using a DC motor which uses less energy compared to a normal fan.

Cat No.	Product Type
LW100S	Lo Watt standard fan
LW100T	Lo Watt Timer Fan incorporating a 1-20 mins over run
LW100H	Lo Watt Humidity & Timer Fan incorporating a 1-20 mins over run and adjustable humidistat 20-90% RH

Safety Extra Low voltage (SELV) includes fan and transformer

SELVLW100S	Lo Watt standard fan
SELVLW100T	Lo Watt Timer Fan incorporating a 1-20 mins over run
SELVLW100H	Lo Watt Humidity & Timer Fan incorporating a 1-20 mins over run and adjustable humidistat 20-90% RH

Additional Information

Maximum pressure:	50 p.a.
Fan speed :	2400 r.p.m.
Sound Volume :	40 dB(A)
Maximum operating temperature:	40 °C
Maximum Airflow l/s:	21.5
Power Consumption (Watts):	6.2



**SFP Down To
0.29**

4" Axial Fan Range

Designed for wall or ceiling mounting, this comprehensive range offers a wide selection of quiet and efficient models for use in bathrooms and Toilets. Comes complete with a backdraught shutter.

Cat No.	Product Type
LXF100S	Standard model for remote switching
LXF100P	As above supplied with pullcord switch
LXF100T	Timer model incorporating integral adjustable electronic timer (1-20 mins)
LXF100H	Humidity control which is adjustable between 40% RH and 95% RH complete with integral adjustable timer (1-20 mins)
LXF100PIR	PIR activated model which switches on as a person enters the room and runs on after the room is vacated. There is no need to connect to a separate switch timer adjustable between 1-20mins. Requires no switched live.

Additional Information

Maximum pressure:	20 p.a.
Fan speed :	2400 r.p.m.
Sound Volume :	41.0 dB(A)
Maximum operating temperature:	40 °C
Maximum Airflow l/s:	25.5
Power Consumption (Watts):	10.77



**SFP Down To
0.42**

**BEAB
Approved**

6" Axial Fan Range

Designed for wall or ceiling mounting, the Efficient and easy to install range offers an alternative style and design to the traditional 6" Kitchen style. Comes complete with a backdraught shutter.

Cat No.	Product Type
LXF150BS	Standard model for remote switching
LXF150BP	As above supplied with pullcord switch
LXF150BT	Timer model incorporating integral adjustable electronic timer (1-20 mins)
LXF150BH	Humidity control which is adjustable between 40% RH and 95% RH complete with integral adjustable timer (1-20 mins)
LXF150BPIR	PIR activated model which switches on as a person enters the room and runs on after the room is vacated. There is no need to connect to a separate switch timer adjustable between 1-20mins. Requires no switched live.

Additional Information

Maximum pressure:	50 p.a.
Fan speed :	2400 r.p.m.
Sound Volume :	40 dB(A)
Maximum operating temperature:	40 °C
Maximum Airflow l/s:	64
Power Consumption (Watts):	18



**SFP Down To
0.28**

**BEAB
Approved**

MANROSE

Inline Shower Fan Range

Designed for the safe ventilation of bathrooms, toilets and shower rooms by removing any risk of an electric shock in wet areas as the fan is mounted remotely.

Cat No.

LSF100T

Product Type

100mm Timer model incorporating integral adjustable electronic timer (1-20 mins). Also comes with 1.5m PVC ducting, grille fixing clips, cable ties, screw plugs as well as both internal and external grilles.

LSF150T

150mm Timer model incorporating integral adjustable electronic timer (1-20 mins). Also comes with 3m PVC ducting, grille fixing clips, cable ties, screw plugs as well as both internal and external grilles.

Additional Information

	4" (100mm)	6" (150mm)
Maximum pressure:	20 p.a.	50 p.a.
Fan speed :	2400 r.p.m.	2400 r.p.m.
Sound Volume :	41.dB(A)	40.0 dB(A)
Maximum operating temperature:	40°C	40°C
Maximum Airflow l/s:	24	63
Power Consumption (Watts):	10.4	20.2



SFP Down To
0.43 4" (100mm)
0.31 6" (150mm)



Showerlite Fan Range

The Manrose Showerlite is a distinctive Showerlite which is incorporated into a circular diffuser, suitable for showers and bathrooms. The Showerlite can be used within the splash area of the shower or bath and is powered by a S.E.L.V. remote safety isolating transformer.

Cat No.

LSLKTC

Product Type

100mm Showerlite fan kit, complete with a adjustable over run timer (1-20mins) with chrome/white fitting showerlite and 12 volt transformer. Also comes with 1.5m PVC ducting, butterfly clips, cable ties, screw plugs as well as both internal and external grilles.

LSL-150TC

150mm Showerlite fan kit, complete with a adjustable over run timer (1-20mins) with chrome/white fitting showerlite and 12volt transformer. Also comes with 3m PVC ducting, butterfly clips, cable ties, screw plugs as well as both internal and external grilles.

Additional Information

	4" (100mm)	6" (150mm)
Maximum pressure:	20 p.a.	50 p.a.
Fan speed :	2400 r.p.m.	2400 r.p.m.
Sound Volume :	41.dB(A)	40.0 dB(A)
Maximum operating temperature:	40°C	40°C
Maximum Airflow l/s:	24	63
Power Consumption (Watts):	10.4	20.2



SFP Down To
0.43 4" (100mm)
0.31 6" (150mm)



Centrifugal Fan Range

The LM200 range of centrifugal bathroom fans are designed for ducted ventilation of internal bathrooms and WC's. The unit is able to be either surface or flush mounted due to its unique cassette design of the motor and impeller assembly. The rear spigot can be mounted in 2 positions allowing for rear exit or connecting to a vertical ducted system.

Cat No.

LM200S

Product Type

Standard model for remote switching

LM200P

As above supplied with pullcord switch

LM200T

Timer model incorporating integral adjustable electronic timer (1-20 mins)

LM200H

Humidity control which is adjustable between 40% RH and 95% RH complete with integral adjustable timer (1-20 mins)

LM200HP

Electronic Humidity control with pullcord over ride switch require no switched live.

Additional Information

Maximum pressure:	79 p.a.
Fan speed :	2400 r.p.m.
Sound Volume :	36.0 dB(A)
Maximum operating temperature:	40°C
Maximum Airflow l/s:	26
Power Consumption (Watts):	12.4



SFP Down To
0.47

Mixflo Range

These powerful 2 speed in-duct mounted mixed flow fans have been designed to produce higher working pressures for applications that require high air flows, with low relative noise. The Mixflo fans can be mounted in a variety of applications as shown and are suitable for use with either rigid or flexible ducting.

Cat No.	Product Type
MF100S	100mm Standard model for remote switching
MF100T	100mm Timer model incorporating integral adjustable electronic timer (1-20 mins)

Additional Information	Low speed	High speed
Maximum pressure:	180 p.a.	200 p.a.
Fan speed :	1700 r.p.m.	2400 r.p.m.
m3/hr:	180	244.8
Maximum operating temperature:	40 °C	40 °C
Maximum Airflow l/s:	50	68
Power Consumption (Watts):	20	25



SFP Down To
0.4 Low speed
0.37 High speed



Lo-Watt Whole House Ventilation System

With the growing concerns about over ventilating properties, the Multispeed Multivent offers the option of 'Close Control' both in the residential and the commercial sectors. With a DC motor that can be set to ventilate any area up to 444m³/hr, the Multispeed Multivent is one of the most efficient central extract units in the UK and can help to reduce your carbon footprint substantially.

Cat No.	Product Type
MANI2000	Whole-house Central Extract System

Exhaust Terminal Configuration	Fan speed setting	Specific fan power (W/l/s)	Energy Saving Trust Best Practice Performance Compliant
Kitchen +1 Additional wet room	House 2 75%	0.24	YES
Kitchen +2 Additional wet room	House 2 75%	0.18	YES
Kitchen +3 Additional wet room	House 3 75%	0.21	YES



Performance and Power Consumption

Casing Breakout dB(A) @ 3m	Minimum		
	FID l/s	Power Watts	Inlet Duct dB(A)
28	43	6	30
Casing Breakout dB(A) @ 3m	Maximum		
	FID l/s	Power Watts	Inlet Duct dB(A)
39	123	55	51



Lo-Watt Whole House Heat Recovery System

As the current climate pushes for further ways of saving energy, the Whole-House Heat Recovery System provides a powerful extraction whilst maintaining a 91% heat recovery rate. The intake & extract unit also comes complete with washable EU3 filters.

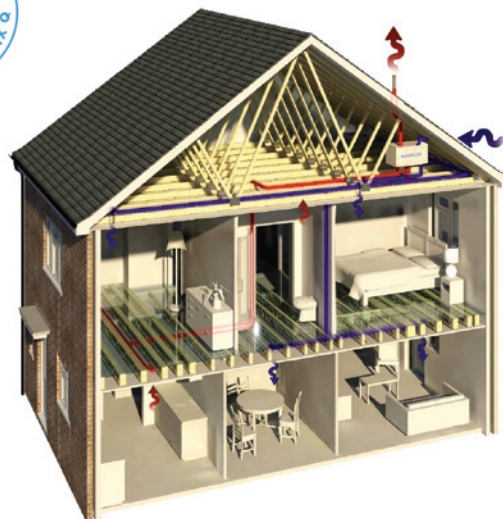
Cat No.	Product Type
MANHR4500	Lo Watt DC Whole-House Heat Recovery System

Features & Benefits

- Suitable for apartments and houses
- Sap Appendix Q Approved
- Lo Watt DC Motor
- Low Noise
- Heat Recovery up to 91%
- Lightweight and easy to install
- Washable EU3 Filters

Additional Information

Exhaust Terminal Configuration	Specific Fan Power (W/l/s)	Heat Recovery Efficiency	Energy Saving Trust Best Practice Performance Compliant
Kitchen +1 Additional wet room	0.61	91	YES
Kitchen +2 Additional wet rooms	0.65	90	YES
Kitchen +3 Additional wet rooms	0.76	89	YES
Kitchen +4 Additional wet rooms	0.94	88	YES



Please contact our technical department on Tel: 01753 876908.
 *Non standard terms apply. Contact our sales office.

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