

MANROSE®

Manufacturers of Ventilation Fans and Equipment



Part L Regulation Energy Saving Products



Saving your money and our environment



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Energy Efficiency

There are Building Regulations dictating minimum airflow requirements (Approved Document F) and minimum energy efficiencies (Approved Document L). The new range from Manrose offers a complete product range and all designed to comply with the requirements. The regulations specify the maximum specific fan power permitted for all ventilation products. This is measured in Watts per litre per second of airflow extracted and all models in the new range comply.



The table below shows the maximum specific fan powers allowed 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 = Watts / LPS) should not be worse than:
 - i. 0.5W/l/s for intermittent extract ventilation systems
 - ii. 0.7W/l/s for continuous extract ventilation systems
 - iii. 0.5W/l/s for continuous supply ventilation systems
 - iv. 1.5W/l/s 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 installation to be signed off by a competent person. 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 part F and 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 meters (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. 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.

✓ Do

✗ Don't

The inner radius of any bend should be greater or equal to the diameter of the ducting being used. If the radius is reduced, the resistance of the bend will increase and the volume of the air being extracted will decrease (image on the left)
 Ensure flexible ducting is installed without peaks or troughs (image on the right)

4" Lo-Watt™ Range (SFP down to 0.29)

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



Additional Information

Maximum Pressure:	Fan Speed:	Sound Volume:	Maximum Operating Temperature:	Maximum Airflow l/s:	Power Consumption (Watts):
50 p.a.	2400 r.p.m.	40 dB(A)	40°C	21.5	6.2

4" Axial Fan Range (SFP down to 0.42)

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:	Fan Speed:	Sound Volume :	Maximum Operating Temperature:	Maximum Airflow l/s:	Power Consumption (Watts):
20 p.a.	2400 r.p.m.	41 dB(A)	40°C	25.5	10.77

6" Axial Fan Range (SFP down to 0.28)

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

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.	Product Type
LSF100T	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.

Additional Information

Size:	Maximum Pressure Pa:	Fan Speed r.p.m.:	Sound Volume dB(A):	Maximum Operating Temperature °C:	Maximum Airflow l/s:	Power Consumption Watts:
4" (100mm)	20	2400	41	40	24	10.4
6" (150mm)	50	2400	40	40	63	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.	Product Type
LSL150TC	150mm Showerlite fan kit, complete with an 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

Size:	Maximum Pressure Pa:	Fan Speed r.p.m.:	Sound Volume dB(A):	Maximum Operating Temperature °C:	Maximum Airflow l/s:	Power Consumption Watts:
4" (100mm)	20	2400	41	40	24	10.4
6" (150mm)	50	2400	40	40	63	20.2



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

Mixflo Range

These powerful 3 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

Speed:	Maximum Pressure Pa:	Fan Speed r.p.m.:	Maximum Operating Temperature °C:	Maximum Airflow l/s (m³/hr):	Power Consumption Watts:
Low	120	1700	40	50 (180)	20
Medium	180	2100	40	60 (216)	23
High	200	2400	40	68 (244.8)	25



SFP Down To
0.4 Low speed
0.37 High speed



Centrifugal Continuous Fan Range

The Continuum fan is designed to provide silent, continuous ventilation to any W.C., bathroom, utility room or kitchen. It can be mounted on walls or ceilings, requires low maintenance, includes a long life, low energy motor and is designed for automatic, trouble free operation.



**SFP Down To
0.31**

Cat No.

CRCHTP -
Mains voltage fan

Product Type

The fan runs continuously on a trickle speed. An optional single boost speed (two speeds available, lower or higher boost dependant on requirement) can be selected at installation.

CRCHTPLV - SELV fan

The integral pullcord switches the fan on and off to the selected boost speed.

An integral, adjustable humidity sensor will also boost the fan to the selected speed. An integrated overrun timer activates when the humidity drops to the pre-set level.

An integrated switch live also enables remote switching to boost. When the remote switch is deactivated the fan will also overrun for the period set at installation.

The LED will come ON when either the switched live, pull cord or humidity sensor is activated.

Size:	Maximum Pressure Pa:	Maximum Sound Volume dB(A):	Maximum Operating Temperature °C:	Maximum Airflow l/s:	Maximum Power Consumption Watts:
4" (100mm)	80	36	40	25	8

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 118 l/s, the Multispeed Multivent is one of the most efficient central extract units in the UK.

The unit has 3 fully variable speeds: normal, boost and purge. The digital display allows accurate setting of airflow, ensuring exactly the right ventilation rate. Accurate speed control helps minimise noise and energy consumption.

Meets the Building Regulations Document (F1) for continuous running.

- Toilets 6l/s,
- Bathrooms 8l/s
- Utility rooms 8l/s
- Kitchens 13l/s

Cat No.

MANI2000B

Product Type

Whole-house Central Extract System



**SFP Down To
0.37**

MANROSE®

Manrose
Unit 23, Suttons Park Avenue
Earley, Reading, RG6 1AZ

Telephone: 01753 691399

Facsimile: 01753 692294

Email: sales@manrose.com

www.manrose.co.uk

Free Fax Order Line: 0800 387646

For further information on any product, please
contact our Technical Department

Telephone: 01753 876941

Email: technical@manrose.com



ISO 9001 accredited

