


## IMPORTANT

- Isolate the mains supply before making any electrical connections. This system should be installed by a qualified electrician.
- When fitting through an external wall, an external grille must be fitted at all times.
- Fan should only be installed by fixed wiring, a flexible cord should not be used.
- This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Young children should be supervised to ensure that they do not play with the appliance.
- Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The fan is to be installed so that the blades are more than 2.1m above the floor.

## Specifications

Motor: All metal aluminium die cast with metal impeller, outer rotor, shaded pole motor

Voltage:	220-240 V ~ 50Hz 
Wattage:	27W
Noise Level:	38dB(A)@3m
Maximum pressure:	120 Pa
Fan Performance:	394m3/hr (zero pressure)
IP Rating:	IPX2
Compliance:	AS/NZS60335-2.80:2004

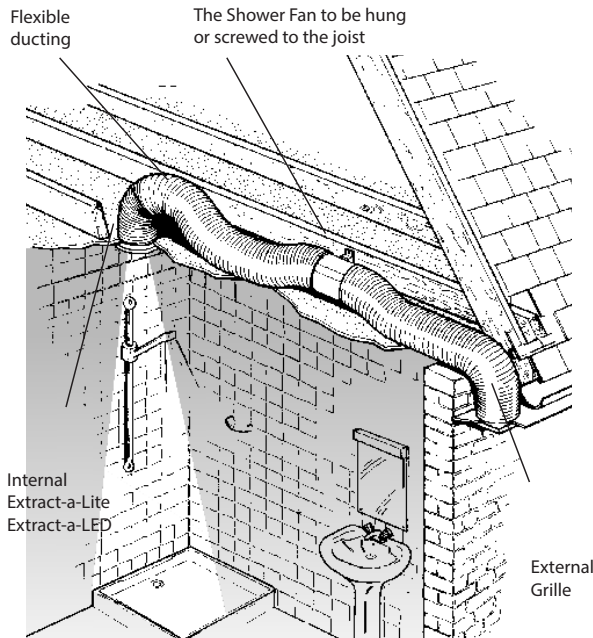
We reserve the right to change specification without notice



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 PO Box 14 347, Panmure, Auckland, NZ. Technical Support (09) 259 1662  
 e: sales@simx.co.nz | www.simx.co.nz | www.manrose.com.au



## INSTALLATION INSTRUCTIONS

# MANROSE®

## MANROSE PRO SERIES 150MM EXTRACT-A-LITE/EXTRACT-A-LED KITS

Please read all instructions before commencing installation.

LED models FAN5375, FAN5376, FAN5377, FAN5378, FAN5899, FAN5900		Halogen models FAN2033, FAN2034, FAN2035, FAN2036	
Electrical Supply	Driver Input: 220-240 VAC Driver Output: 12VDC	Electrical Supply	Transformer Input: 220-240 VAC TTransformer Output: 12VAC
Replacement driver	FAN5342	Replacement transformer	FAN2101
Lamp	MR16: 12V / 3W high power LED	Lamp	MR16: 12V / 50W Halogen
Replacement lamp	LHT0221	Replacement lamp	FAN0431

Please ensure the correct LED lamp and driver OR Halogen lamp and transformer are used for replacements. The LED model MUST be replaced with an LED lamp and the Halogen model MUST be replaced with a Halogen lamp. They are not interchangeable.

### Installation Instructions

Important: The Halogen Extract-a-lite must not work independently of the fan.

1. Cut a 165mm diameter hole in ceiling, (always ensure the hole is cut between ceiling rafters and away from any wiring or plumbing). Fix the chassis using the 4 screws provided. Use the fixing clips to secure the grille (Fig 1).
2. Connect Driver/Transformer to power supply, then to Extract-a-Lite.
3. Place the ceiling cover onto the chassis by positioning over the 3 lugs, and twisting clockwise.
4. Never connect mains direct to the lamp.
5. The transformer/driver must be suitable for 230V AC input.  
**CAUTION:** Disconnect the power supply, and be sure that the lamp has fully cooled before removing or replacing.

Fig 1

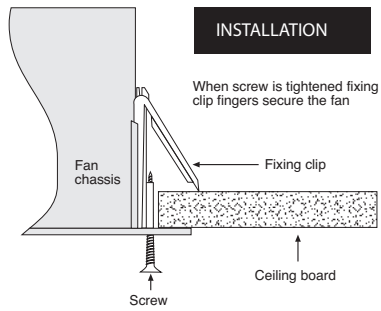


Fig 2 (ELLP150S) Standard Model This diagram is for a lighting circuit only

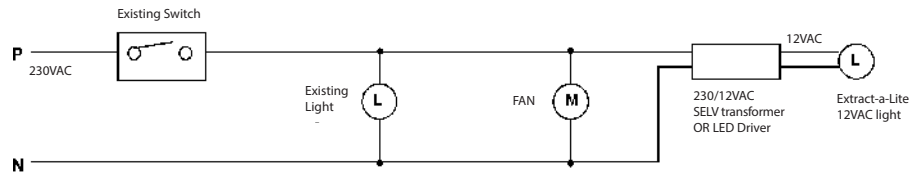


Fig 3

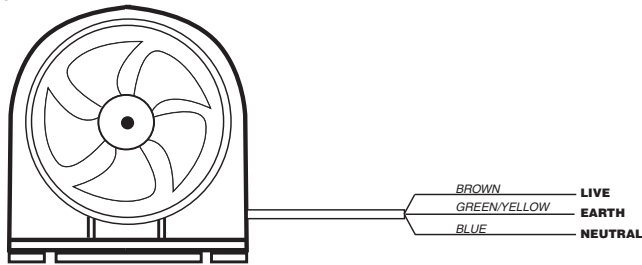
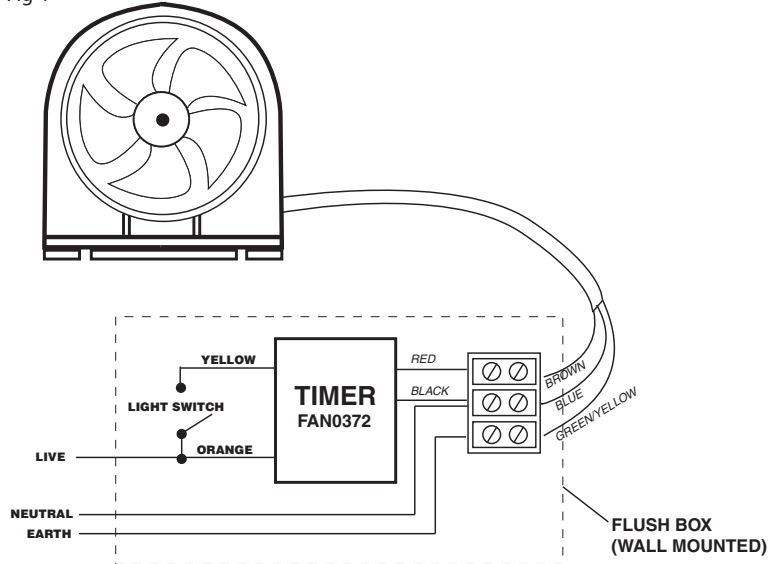


Fig 4



## FITTING THE INDUCT FAN

1. Select a suitable place for the fan to be screwed to a joist and secure using two screws through the fixing bracket. **There is an arrow on the unit showing the airflow direction.**
2. For the exterior grille there is a choice of options, either a weatherproof cowl or a fixed grille. Select a suitable position either in the soffit or on an outside wall for your chosen grille. Carefully remove the grille insert/cowl from its housing by levering gently at the sides with a small screwdriver. Cut a 160mm hole ensuring first that the area above is free from obstruction.
3. Attach one end of the flexible duct to the spigot with the duct tape provided and from the outside feed the duct through the hole until the grille is flush with the soffit/wall. Mark the position of the fixing holes on the soffit/wall. Drill the holes and screw the chassis to the soffit/wall then refit the chosen grille to the chassis.  
**NB:** It is best not to cut the flexible ducting until the grille with the flexible ducting attached has been screwed to the outside wall so as to avoid the possibility of cutting the duct too short.
4. Pull the flexible ducting gently to the discharge spigot of the fan and cut the duct to length and connect to the fan using the duct tape supplied.  
**Try to keep the ducting as straight as possible and keep the distance between the Extract-a-Lite and the external soffit or wall as short as possible to achieve optimum fan performance.**

5. Connect the other piece of duct to the light chassis and onto the fan using the duct tape supplied. Cut off and discard any excess ducting.

### 6. Wiring of Standard Model ELLP150. Fig 2 & 3.

The fan can be connected to the light switch so that the fan will start when the light is switched on. The fan should not be accessible to a person using either the shower or the bath.

**NB:** All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current Regulations.

### 7. Wiring of Timer Model EL150 as Fig 4.

The fan can be connected to the light switch so that the fan will start when the light is switched on. The fan should not be accessible to a person using either the shower or the bath.

**NB:** All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current Regulations.

The timer mechanism fitted is a fixed seven minute timer which is installed in the flush box. This means that the fan will run on for approx two minutes after it has been switched off. (see diagram 3 for wiring instructions, and also instructions included with FAN0372).

Please Note:

There is a 45 second delay after switching the fan on until the motor starts, this is to prevent accidental triggering.