

# OTTER FIRE SAFE

## Internal Bathroom and WC Fan

### About OTTER FIRE SAFE

The OTTER bathroom fan is a single room fan with timed overrun feature. Its fire safety properties are due to an intumescent seal contained within the metal connecting section which expands when exposed to high temperatures. An added benefit is that sound transmission is reduced making it the ideal solution for communal ducted systems.

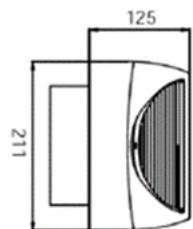
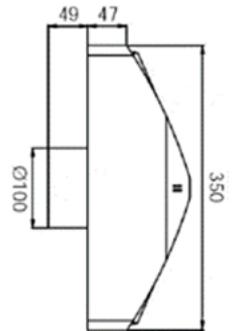
The low watt fan system operates on an overrun proportional timer activated by the light switch. The OTTER utilises an energy efficient MagLev motor, offering great efficiency, quiet operation and exceptionally long life (up to 50,000 hours of operation). No user or installation set up is required.



OTTER incorporates 2 x 2 watt MagLev motors.

### Features and Benefits:

- Integral Intumescent fire protection system which expands and closes off the air duct in the event of a fire providing protection against the spread of fire. Now a building regulation requirement. Conforming to BS476:Part 20:1987
- Metal connection assembly to ensure integrity to fire protection system
- Intumescent seal and fans within metal section with no reduction to fan performance
- Incorporates MagLev DC fan motors - designed to operate for 50,000+ hours fault free which means:
  - ◇ Almost silent operation
  - ◇ Cost effective as it is inexpensive to run, low maintenance and has a long life.
  - ◇ Can be fixed in any orientation without affecting performance (wall, ceiling)
- Polycarbonate ABS mix with fire retardant housing which provides a robust and high temperature resistant casing.
- Produces up to 110m<sup>3</sup>/h of air flow thereby conforming to building regulations part F
- Lifetime\* guarantee on the MagLev motor and 5 year guarantee on all other parts giving peace of mind
- 12V Power Supply / Timer or 240V supply options with IP54 connection for new or replacement systems and so is safe for use in wet areas i.e. Zone 1.
- The OTTER is programmed for proportional timer control so is energy efficient and does not run unnecessarily
- Sound dampener - to reduce sound transmission;
- Hand removable front grilles - these dishwasher safe front grilles are easy to clean (fixed and tamper proof grille fittings are available for public locations).



### What is MagLev Technology:

MagLev fans are derived from the most advanced train technology in the world. We have integrated the science behind making the MagLev trains float above the rails and propel forward, into our complete range of domestic fans.

The levitation of the blade and housing is created through opposing magnetic forces causing propulsion through perpendicular magnetic fields. This means that there is no physical contact between the moving parts and therefore no mechanical friction. This in turn means that the fan temperature is low and there is less waste of energy and less wear to the components. No friction also results in exceptionally high efficiency, quieter running and improved balance. All these features make a highly reliable motor with around 30 years life expectancy under normal operating conditions

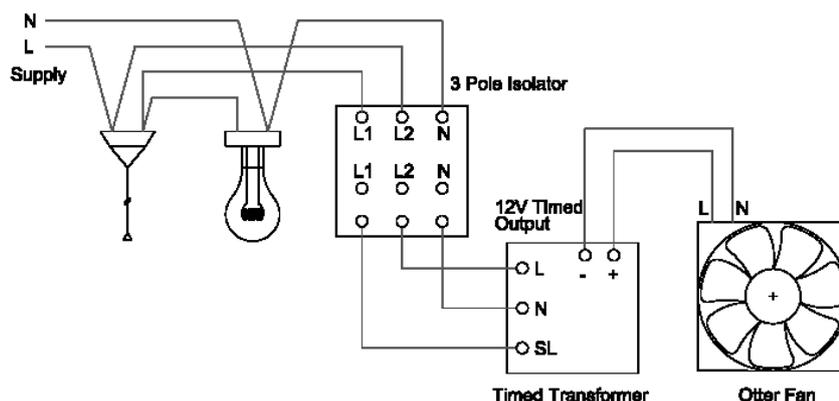
\* Lifetime = lifetime of fan motor >50,000 hours in normal conditions

## OTTER Fire Safe options

Item	Part No.	Kit Contents
OTTER 240V Fire Safe	<b>OTTER F</b>	OTTER intumescent fan+ back draft valve
OTTER 12V Fire Safe	<b>OTTER FT</b>	OTTER intumescent fan+ back draft valve + remote 12V transformer

### Otter 12V Wiring

The diagram depicts the wiring for a 12V solution. No transformer is required with the OTTER 240V Fire Safe Fan and therefore the connection is direct from the fan to the isolator



### General Notes on Fan Installations

The fan position should be as far as practical from the main source of air replacement. This is to avoid short-circuiting of the airflow. The fan can be placed on a wall or ceiling. The OTTER fans have a 98mm spigot to fit onto a circular 100mm ducting system.

**IMPORTANT** The connection to the system requires Intumescent mastic as a sealer to make it fire safe.

For more information, please contact us or see our website for product details and a detailed installation guide.



### And for the Specifier.....

The OTTER F is supplied with a proportional timer and an internal intumescent fire break system. It can be installed onto an existing ducted system. The fan will include 2 MagLev motors of not more than 4 watts each extracting at no less than 85m<sup>3</sup>/h. It will be provided with a backdraft valve and removable filters

Product	POWER				
	Max Air Flow m <sup>3</sup> /h	Fan Input (watts)	Static Pressure (Pa)	Noise (dB(A))	Exhaust Spigot Size (mm)
OTTER F 240V	85	4	120	28	98
OTTER FT 12V	85	4	120	28	98