

PROZONE[®]

INSTALLATION AND OPERATING INSTRUCTIONS FOR
PROZONE[®] 80MG MODEL ONLY

INTRODUCTION

Thank you for purchasing PROZONE®. Please read these instructions before attempting installation or commissioning.

PROZONE® is designed for commercial use and is not suitable for domestic applications. PROZONE® can be used for fixed or portable operation.

Keep these instructions for future reference.

Prior to commencing installation or commissioning check that the PROZONE® unit has not been damaged in transit and that the contents listed below are complete.

PROZONE® unit
Drilling template
Fixing kit: - 4 x screws & plugs
 - Key to unlock PROZONE® unit

SELECTING A SUITABLE LOCATION

By reference to the following guidelines select a suitable location for the PROZONE® unit.

PROZONE® should be positioned so that:

- The ozone output cannot be directly inhaled.
- Air can circulate around and through the unit.
- It cannot be covered accidentally.
- There is no risk of water splashing on it.
- Children and pets cannot reach it.
- It is away from extract ventilation.
- It is not near natural rubber products.
- It is not installed over washbasins.
- It is not installed over urinals.
- It is not installed below pipe work.
- In portable applications it is on a smooth, flat surface.

INSTALLATION FOR FIXED APPLICATIONS

PROZONE® must be installed and connected to a suitable mains supply in the range 85V to 264V 50/60 Hz by a qualified electrician in accordance with current IEE Wiring Regulations or, where these do not apply, relevant Local Wiring Regulations.

The unit may either be plugged into a suitably located mains socket or connected to a 2-pole fused spur fitted with a 2-pole isolator, if the existing mains plug is removed from the power lead. When connecting the mains lead note the colours of the power lead conductors are as follows:

LIVE - BROWN
NEUTRAL - BLUE

The unit is double insulated and does not require an earth connection.

FIXING

1. Drill and plug the wall using the drilling template supplied. (NB Observe clearances detailed in Fig 1).

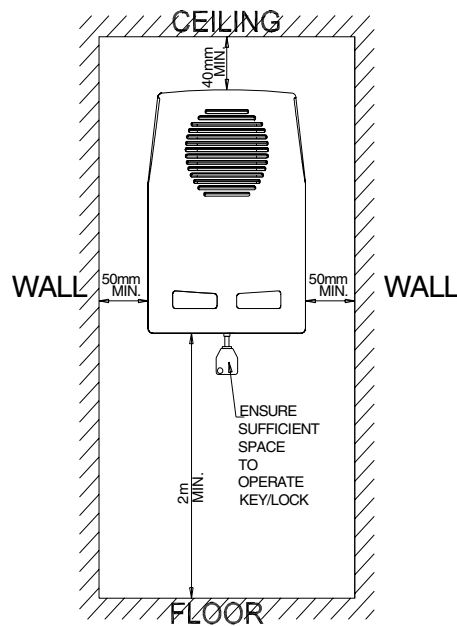


Fig 1

2. Remove the cover using the key supplied (1/4 turn anti-clockwise).
3. Fix the baseplate to the wall using the 4 screws supplied.
4. Discard the fitted plug to allow connection to an appropriate switched fused spur.
5. Refit the cover to the baseplate and lock using the key supplied (1/4 turn clockwise).
6. Turn on power to confirm the unit functions.
 - Green LED denotes power on.
 - Red LED illuminated denotes ozone production.

PORTABLE APPLICATIONS

Prior to commissioning units for portable applications plug in to a suitable socket to confirm the unit is functioning. (Fig 2)

- Green LED denotes power on.
- Red LED illuminated denotes ozone production.

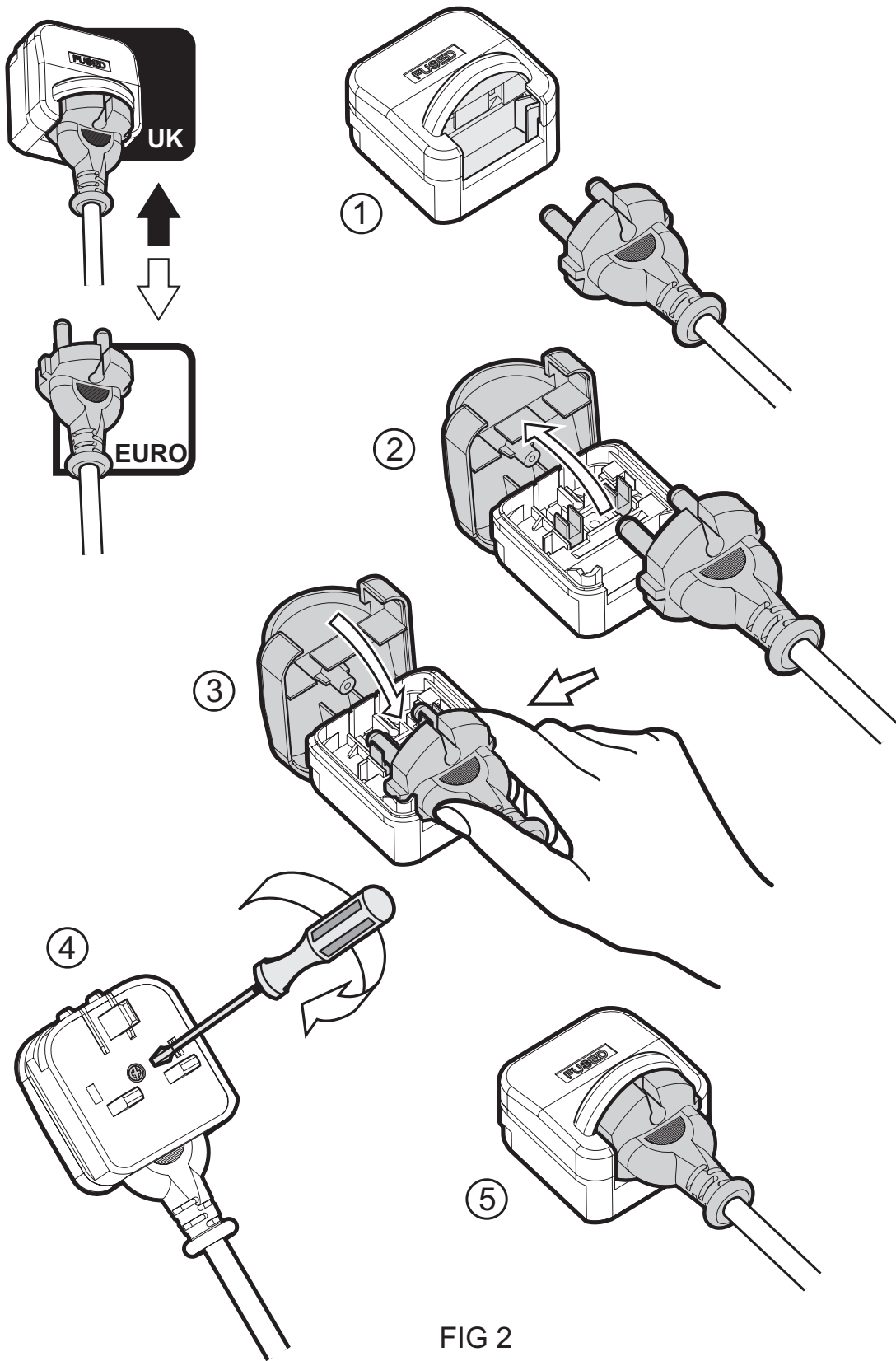


FIG 2

COMMISSIONING

1. Unlock and remove the cover from the baseplate.
2. PROZONE® is factory set to operate continuously but can be programmed to operate either only when light or only when dark. Set the Operating Mode switch to the desired option. (Fig 3)
3. PROZONE® has adjustable ozone output to accommodate differing room sizes.
4. PROZONE® is factory set to the low output. The Ozone Level switch (Fig 3) should be adjusted if necessary by reference to the room sizing chart located within the cover.

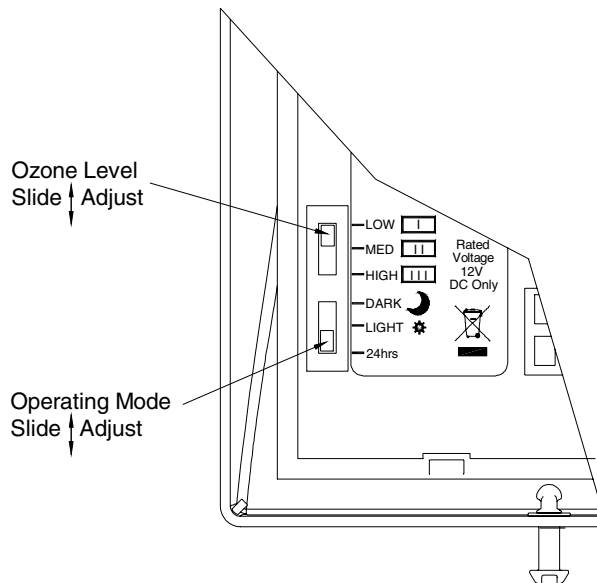


Fig 3

NOTE: The room sizing chart is based on U.K. exposure guidelines and applies to the U.K. only. For non U.K. applications please see the Additional Information section at the end of these instructions

5. Refit the cover to the baseplate, secure the locking mechanism and turn on power to complete the installation.

The red LED denotes the level of ozone output-

Constant illumination	- high output
Long Flash (approximately 6 sec)	- medium output
Short Flash (approximately 3 sec)	- low output.

- 6.

RETAIN THE KEY

SERVICING AND MAINTENANCE

Although PROZONE® requires only minimal routine servicing it is important that the unit is maintained in accordance with these instructions in order to ensure optimum performance. (Failure to service in accordance with these instructions may invalidate the product warranty).

Servicing should be undertaken by a competent person.

At each routine service the following should be performed:

- Replace the ceramic plate
- Check fan for function and replace if damaged or not rotating freely
- Clean the interior and exterior of the unit and remove any build up of contaminants within the unit as described in Cleaning Instructions

CERAMIC PLATE/FAN REPLACEMENT

1. Unlock and remove the cover (1/4 turn of key anti-clockwise).
2. Remove the fan module from the cover assembly as shown in the diagram inside the unit.
3. Remove the old ceramic plate and clean the fan module as described in the Cleaning Instructions. Fit a new ceramic plate ensuring that the orientation of the plate is correct as shown in the diagram inside the unit.
4. Refit the fan module into the cover assembly ensuring correct orientation as shown in Fig 4.

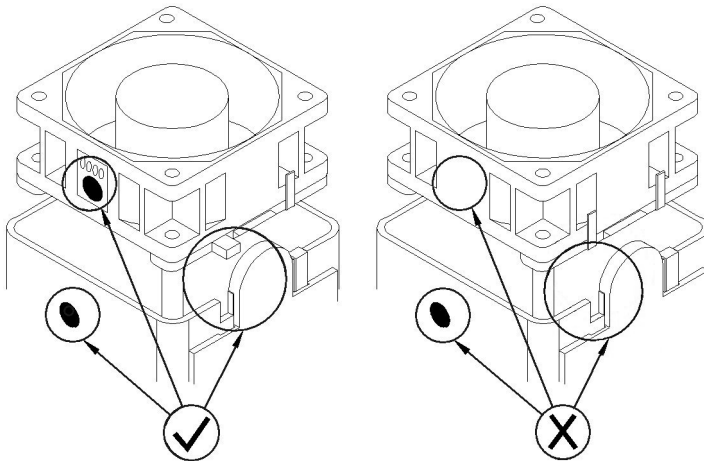


Fig 4



CAUTION!
Fan module **must** be
installed in correct
orientation.

5. Refit the cover to the baseplate and secure the locking mechanism (1/4 turn clockwise).

SERVICE FREQUENCY REQUIREMENT

SETTING	SERVICE INTERVAL
HIGH	6 MONTHS
MEDIUM	9 MONTHS
LOW	12 MONTHS

The service interval requirements detailed above are indicative of service frequencies required in ideal conditions. In environments that are damp, dusty or polluted, or in which contaminant build up is accelerated the service frequency will need to be increased. It is the responsibility of the owner/user of the equipment to establish the appropriate service frequency in each individual location.

The first service should be carried out after no more than 3 months to ensure that subsequent service intervals match site conditions.

CLEANING INSTRUCTIONS

1. Clean the exterior of the unit with a damp cloth. Do not use abrasives or other cleaning chemicals.
2. With the fan module removed from its housing and before fitting the new ceramic plate, remove any dust particles or other deposits on the fan using a light brush.
3. Using the alcohol wipe supplied with the replacement ceramic plate clean the metal contacts of the fan ensuring that all deposits, some of which may be difficult to see, are removed.
4. Using the alcohol wipe supplied with the replacement ceramic plate clean the inside of the fan housing within the cover including the inside and outside of the grill ensuring that all deposits, some of which may be difficult to see, are removed.

OPERATING ENVIRONMENT

Temperature range -0°C to +40°C
Humidity range 35% to 85% RH at 20°C, non-condensing.

The atmosphere should contain no dust or combustible gases at higher levels than those likely to be experienced in typical light industrial environments. The maximum rate of production of ozone of the PROZONE® is 80 mg/hr \pm 20% at normal temperature and pressure. The rate of production and life of ozone is adversely affected by an increase in humidity or in temperature.

TROUBLESHOOTING

Fault	Possible Cause	Suggested Action
No power to unit Green LED not illuminated	Power not switched on	Switch on power/replace fuse
	Fuse in plug or spur blown	
	PROZONE® internal fuse blown	Contact your supplier
No ozone smell	Base to cover connections damaged	Contact your supplier
	Fan assembly fitted incorrectly	Check and correct
Fan not working	Ceramic plate incorrectly fitted/worn/damaged	Check orientation/fit new plate
	Fan module fitted incorrectly	Check fitting and correct
	Fan faulty/damaged	Fit new fan module

SPARE PARTS

Fan Assembly : PROZFANA
Ceramic Plate : PROZPLAT

SPECIFICATION

Physical Properties

Length 230 mm
Width 155 mm
Depth 100 mm
Weight 0.76 kg
Electrical power requirements 85-264 V 50/60 Hz
Power rating 12 Watts
Case Flame retardant ABS
Ozone output 17– 80mg/hr. All output figures given are ±20%

QUICK REFERENCE SETTING GUIDE - PORTABLE APPLICATIONS

Once a room volume has been calculated and the correct setting established (High/Medium/Low) this setting should be correct each time the PROZONE® is used in that room. Record the correct settings below to avoid the need to recalculate for each use.

Room Name / Number	Volume	Setting

ADDITIONAL INFORMATION

The table below indicates safe/optimum ozone output levels, depending on room size and PROZONE® setting: **X** - Setting too high or too low,
✓ - Setting correct for safe/optimum operation

Room Volume m ³	LOW 15mg/hr	MED 40mg/hr	High 80mg/hr
0 – 10	X	X	X
10 – 40	✓	X	X
40 – 60	✓	✓	X
60 – 90	X	✓	X
90 - 150	X	✓	✓

The above table is for guidance only and has been calculated to comply with the UK Health & Safety Executive Guidelines for Ozone, EH38 and EH40 and with the European standards found on the below web link. The actual ozone level reached in a room will depend on the room size, temperature and humidity, the number of air changes, the operating time and the output setting. Using these setting guidelines should ensure that the ozone level does not exceed the typical European ozone Occupational Exposure Level (0.1 ppm over an 8 hour period). It is strongly recommended that you check your relevant national legislation. The Occupational Exposure Level for ozone in different countries can be found at;

http://osha.europa.eu/good_practice/topics/dangerous_substances/oel/members.stm#at



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