

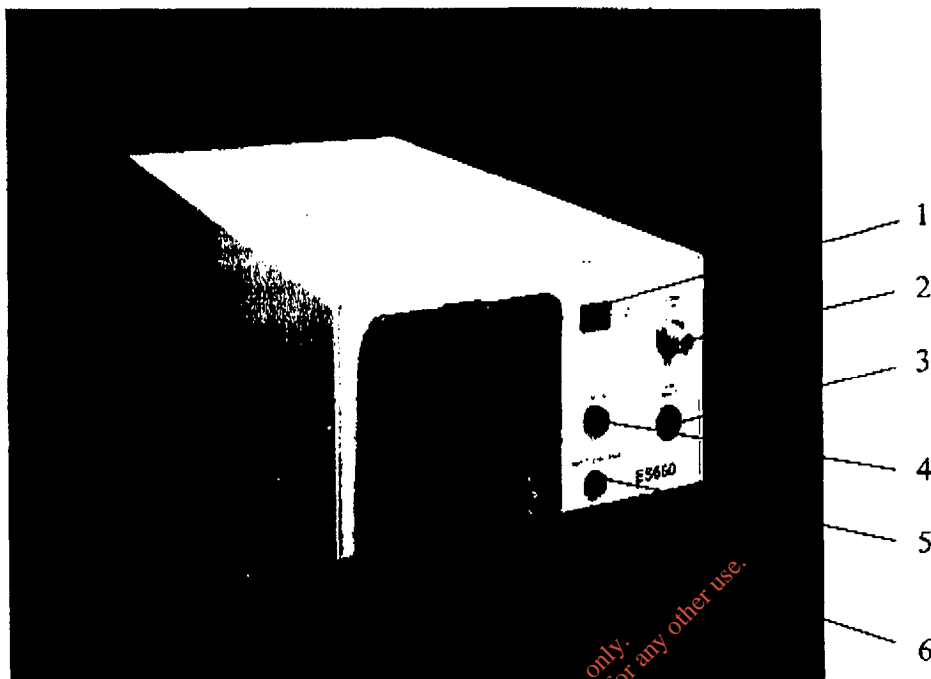
# APPENDIX B

## Ozone Defuser

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# onnic

## THE ES660



### Features

1. ON/OFF Switch ( Illuminated in the "ON" position)
2. Ozone Output
3. Air / Oxygen input socket, when fitted
4. Fuse [1A (T)]
5. Mains Supply Lead
6. Fan Filter

### ES660: Specification

<b>Output* (gm/H)</b>	<b>1.0</b>
<b>Pump (L/M)</b>	<b>10</b>
<b>Power (W)</b>	<b>60</b>
<b>Weight (Kg)</b>	<b>6.8</b>
<b>Supply</b>	<b>240V 50Hz</b>
<b>Size(mm)</b>	<b>450-255-132</b>
<b>Temperature</b>	<b>-10C to +40C</b>

\*Output dependant on temperature and humidity

**Important:** Keep all airways clean and clear

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## 1. INTRODUCTION

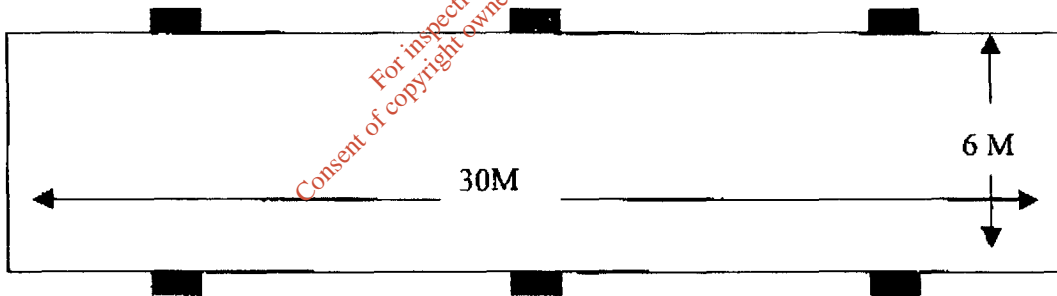
This proposal addresses and describes the application of Ozone for controlling the odour that emanates from the processing of manufacturing compost within an enclosed chamber.

A suitable system is described, initially to be fitted to one chamber, in order to verify the process and confirm the assumptions used.

## 2. SYSTEM DESCRIPTION

Chambers: These are given as brick build area 6M x 30M and 3M high  
Total Volume 540 cubic Metres

Plan View



Elevation

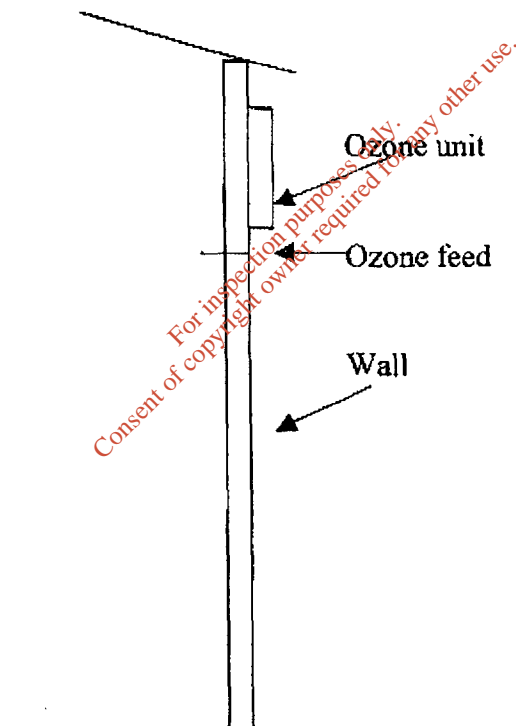


Each chamber will require 6 units each giving 1g/H of Ozone. The units to be distributed 3 on each side of the chamber.  
The units will be fitted on the outside wall, approximately 2.3 M from the ground

The units will be fitted within a weather proof cabinet ( IP66 rated) .

It is a requirement that the 240v 70VA fused supply is provided at the wall mounting point for each of the 6 units.

Access for the Ozone into the chambers will be through a small hole near the Ozone generators, through which a tube will be passed. The tube will be suitably secured inside the chamber to be of minimum intrusion.



Note: 1. Ozone is a strong oxidant and the use of natural rubber, nylon and ferrous materials should be avoided in the exposed area

## 5. SAFETY

The units have been designed to conform to CE requirements and are inherently safe to operate.

Do not dismantle unless the supply voltage is disconnected. Opening of the units by non-qualified staff is not permitted as they contain high voltages, the warranty will be invalidated should this occur.

**Ozone:** This has a distinctive odour and is easily detectable at very low levels.

It is not a known carcinogen.

Regulations for safety vary but the UK standard for exposure is defined by the HSE as 0.2 ppm averaged over a 15 minute period. Should this be exceeded, provided steps are taken to reduce the level to the OES as soon as is practicable, then this is satisfactory.

For this operation it is assumed that there will be no personnel within the chambers. When it is required for personnel to operate within the chambers, then the ozone generators should be switched off.

If, at any time, discomfort is experienced then this can be relieved by breathing fresh air. If exposure is unavoidable at levels that cause discomfort, then suitable masks are available.

Your Health and Safety officer should be advised.

A copy of the HSE Guidance Note EH38 (Revised) is attached.