

MAXI CHAMBER FUMIGATION



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Installations World Wide include :

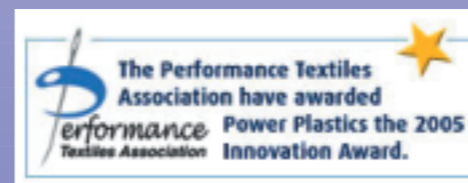
- United Kingdom
- Serbia
- Fiji
- Malaysia
- Nigeria
- South Korea
- Australia
- Romania



■ The old way



■ The Power Plastics way



Power Plastics Ltd Station Road Thirsk North Yorkshire YO7 1PZ
 Tel: +44 (0) 870 850 8067 Fax: +44 (0) 870 850 8068
 Email: nick.atkinson@powerplastics.co.uk



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- Fumigation is an essential part of the supply of Tobacco, Rice, Coffee and other commodities.

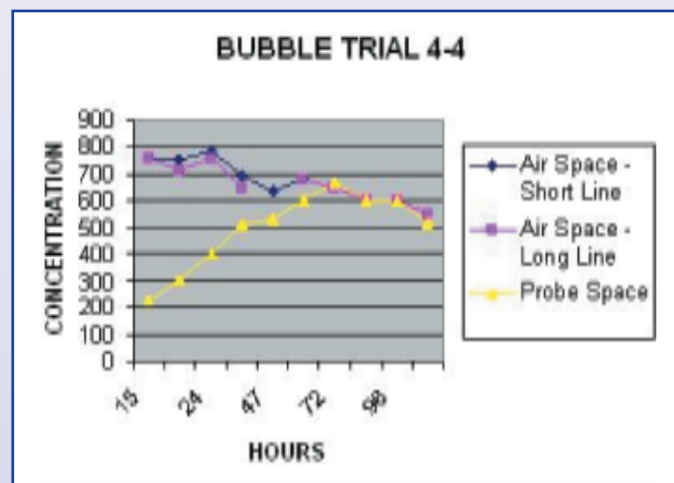
However failure to fumigate thoroughly can have serious repercussions.

With using simple stack fumigation the failure rate is all too high – as are the costs.

The alternative is the Maxi Chamber, manufactured by Power Plastics Ltd. The chamber is a semi-permanent structure and therefore does not need to be pressure tested like permanent chambers.

The Coresta standard states that the dosage of gas should be between 1g and 1½ g per m². With the chamber the accepted dosage is 1g per m².

The Maxi Chamber guarantees a successful fumigation time and time again.



- **Theoretical dosage set at 718PPM of Phosphine Gas**

- Using conventional stack fumigation it is often hard to precisely calculate the amount of gas required to give a 100% kill rate. With the Maxi Chamber, because we know the chambers exact cubic size a more efficient and effective fumigation can be carried out.

The graph above shows results taken by an independent fumigation consultant for a Maxi Chamber fumigation.

Using a Maxi Chamber enables all the gas to be safely contained in the chamber during fumigation. The required safety area around a chamber is a mere 1m. This enables the warehouse to operate as normal. With a conventional stack fumigation the warehouse would have to be completely clear for health and safety purposes.

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- All chambers supplied worldwide are installed by either a dedicated team of fitters supplied by Power Plastics Ltd or by the buyers own teams under the strict supervision of a Power Plastics engineer.



- After installation is complete, we will provide full training in the operation of the chamber by our fumigation expert who has over 30 years experience.

- The chamber will be checked using the C16 PortaSens II unit. All seals and joins will be checked. If any reading of gas is taken around the chamber it will result in the chamber failing certification.



- As good practise we recommend that each chamber is checked and recertified on an annual basis to ensure a safe and successful fumigation time after time.

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- The TCP 680 temperature probe is designed for use with the TDA220 display unit. Robustly constructed from stainless steel, it is 680mm in length and is supplied with a 10mm thermocouple connection. Which is sealed to prevent corrosion.

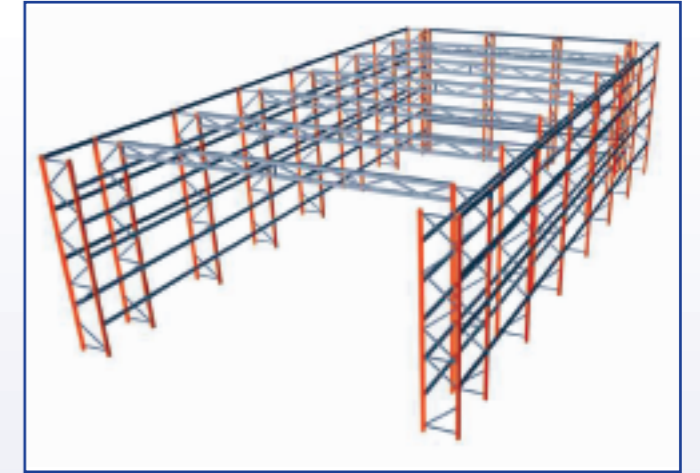
- The TDA220 unit is a combined display and alarm unit. It has 2 alarms. One at 16° and one at 20°. The unit stores the minimum and maximum temperature readings from the last reset and the computed average. The unit accepts 90v to 250v AC50 or 60Hz mains power and is supplied complete with all the correct connections for the country specified.



- The C16 PortaSens II unit is a portable gas detection device supplied with the Maxi Chamber. It has a unique ability to check for over 30 gases using a series of interchangeable sensors. The sensors are pre-calibrated and easily changed in under a minute. Each unit is supplied with 3 sensors for complete gas detection. The unit is designed for one handed operation and is supplied complete with carry case and flexible wand.

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- The frame is manufactured from a lightweight steel construction and features internal beams to prevent damage to the membrane of the chamber. The frame is manufactured in a modular form and therefore if any part is accidentally damaged it can be easily replaced.



- **Modular frame design allows for easy installation**



- As with the framework, the PVC membrane is manufactured in a modular format. The panels are joined together using our patented Gas Zip system. If a panel becomes damaged a single panel is very easy to repair or replace.

- With every Chamber we supply a fork Lift access ramp. The ramp protects the zip seal from damage during loading & unloading of the chamber. It also acts as a safety measure during fumigation when lifted to an upright position.



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- Each Chamber is supplied with a 2 way testing port for measuring the air space and product space concentration.

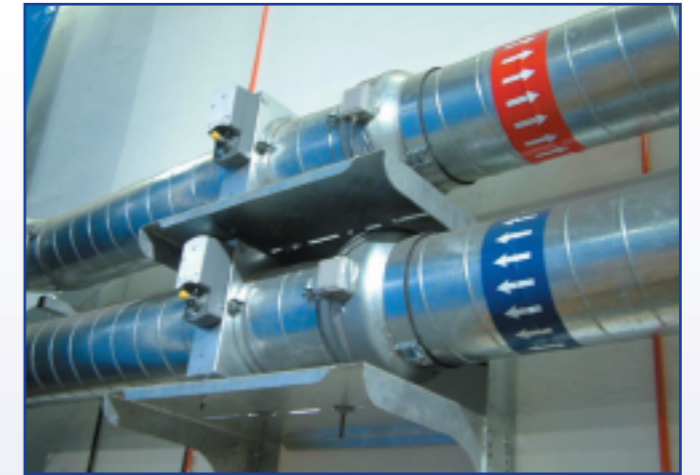
- Each Chamber is supplied complete with a heavy duty winch which allows the chamber door to be raised and lowered safely. During fumigation the winch is locked into position to prevent access.



- A Fail Safe Control Unit is supplied with every chamber. The unit controls not only the pressure in the chamber but also the dampers and fans for extracting the gas once fumigation is complete.

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- The ducting is supplied to channel the gas away from the chamber into the atmosphere; it is also used to bring clean air into the chamber once fumigation is complete. Please note the arrows on the ducting are to signify the direction of the airflow.



- Every chamber is supplied complete with gas tight doors to enable the fumigant to be placed into the chamber. This means that no person needs to enter the chamber during the fumigation process.

- We can supply the GSP 680 stainless steel gas sampling probe. The probe enables the product space to be measured during the fumigation. The probe is supplied complete with fittings for both 8mm to 8mm and 8mm to 6mm pipe connections.

