

Controlled Pyrolysis Cleaning Ovens



The pyrolysis process

Controlled Pyrolysis is one of the most effective methods of removing a plastic or paint coating from a component. This process consists of heating contaminated components at a precise controlled temperature in a low oxygen environment.

This has the effect of vaporising the volatile constituents of any coating applied to the product. This vapour is passed through a second, high temperature chamber, which converts the volatile vapour into safe gasses that can be discharged to atmosphere. As the amount of volatile vapour increases, the temperature in the secondary chamber will start to rise. The increase in temperature, will initiate water sprays inside the main oven chamber, which reduces the production of volatile gasses to an acceptable level and the temperature in the secondary chamber will fall.

To achieve the high level of flexibility required by our customers, every oven is provided with FOUR different pyrolysis profiles, additional profiles can be added if and when needed.

Environmentally friendly

Unlike traditional chemical cleaning methods, with all the associated problems of disposal of spent solvents; the pyrolysis process converts the vaporised coating to gases that consist primarily of water vapour and carbon dioxide.

These invisible, harmless gases may be safely and legally discharged into the atmosphere.

Robust

Our ovens are designed to give many years of service in harsh industrial environments.

The inner surfaces of the oven can be lined in stainless steel. This enables them to survive the every day knocks that seriously damage the insulation in some ovens. As certain combustion processes can produce an acidic atmosphere, we have coated the inner surfaces of the exterior casing with an acid resistant membrane to resist corrosion.

Advanced technology

Our ovens are PLC controlled allowing the pyrolysis profile to be custom designed for your application. The ovens can be supplied with integral GSM modem. This allows your process to be monitored by our specialist at our head office as needed. If required, adjustments can be made to your programme via the modem, eliminating costly down time waiting for a Service Engineer.

Wide range

Our standard range has eleven oven capacities from 0.125 cubic metre to 27 cubic metre and five model types; more than enough to suit the majority of applications. However should your requirements fall outside this range; we will design an oven to suit your needs.

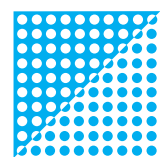
Service

Our team of skilled Service engineers will ensure that your oven always operates to its optimum efficiency, and complies too the latest environmental regulations.

**Whatever your requirements are,
call us on**

01254 680 501

www.bmlongworth.com



LONGWORTH
Process Technology