

PROCESS INFORMATION

Oxidation using ozone and activated oxygen ions is used to treat odour emissions from commercial and industrial kitchen processes (DEFRA, 2005: Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems).

The Plasma Clean Xtract has been specifically designed for use in commercial kitchens. The system injects ozone into the kitchen extraction canopy where it reacts with odours which are oxidized in a chemical reaction which results in the production of carbon dioxide and water vapour. The ozone itself is consumed during the process and is converted back into oxygen.

The benefits of purchasing a Plasma Clean Xtract system are as follows;

- Compact , lightweight and quiet operation so is less obtrusive
- Quick and easy low cost installation
- Low capital and running costs
- Ozone injection – adding negligible back pressure to the system so requiring less energy to push air through the air handling system. This means less ductwork modifications
- The ozone tubes have a longer life and maintain efficiency as they remain outside of the air stream
- Tested to EN13725:2003

TECHNICAL INFORMATION

Model reference	:	Plasma Clean Xtract 2100 series
Housing dimensions (A technical drawing can be provided upon request)	:	185mm W 307mm H 343mm L
Housing material	:	Grade 304 stainless steel
Volume flow rate in ductwork	:	Up to 1.0m ³ /s per unit, subject to cooking odours
Volume flow rate through unit	:	Approx. 80m ³ /hr
Pre-filtration grade	:	Replacement pre-filter
Pressure drop	:	N/A (ozone injection)
Weight of unit	:	12Kg approx.
Electrical requirements	:	220V / 1 ph / 50Hz
Power requirements	:	130W
Safety	:	Flow switch Recommended interlock to fan control
Availability	:	Stock item

INSTALLATION

It is recommended to locate the units with an injection point located closest to the source of odours in order to maximize dwell time. In any case the dwell time must be no less than 2 seconds.

The system is powered via a fused spur which is interconnected to the main extraction fan control to ensure that the Plasma Clean Xtract unit(s) only operate when the main fan is operating.

MAINTENANCE

A Swap Around Maintenance contract is available which includes the supply of one replacement unit after the end of each year. This is simply swapped for the existing unit which is shipped back to our factory where it is fully re-conditioned and placed into a replacement pool ready for next time. Removing the old unit and replacing with a fully reconditioned unit is done quickly with little or no down-time.

PRICE INFORMATION

The 'Swap Around Maintenance' Contract covering the supply of one replacement unit per year

Optional self-diagnostic module to include connection point for external remote monitoring

EXCLUSIONS

The following exclusions apply – additional pricing can be supplied on request:

- (1) Installation of unit.
- (2) Provision of any fan
- (3) Any ductwork/transformation pieces etc.