

## Remove smells with a single unit

Chlorine bleach is powerful at removing odour and infection. But ozone is more powerful still.



\*Plasma Clean is continuously improving its products and services and reserves the right to alter designs without prior notice

Some competitor units simply mask smells with a chemical perfume. But our Xtract system releases natural ozone directly into the kitchen ventilation system.

Ozone is a superb disinfectant and odour neutraliser that eliminates cooking smells at source, using ozonolysis. And it works around the clock – just change the filters every few months.

## Benefits

- Affordable, space-efficient and robust
- Easy to install – no disruption to business
- Chemical-free
- Quiet
- Environmentally friendly and tested to EN13725:2003

### Related products



#### **Xtract 2100**

The ideal product for achieving oxidation in smaller commercial kitchen spaces

[Find out more](#)



#### **Xtract 2100 Mini**

The perfect solution for removing cooking smells in small, start-up kitchens

[Find out more](#)

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## Introduction to Kitchen Ventilation from Plasma Clean

Grease, odour and smoke emissions produced by commercial kitchens are an increasing concern both for existing establishments and for new build projects. Therefore, it is essential to implement a suitable grease and odour control strategy - as a matter of urgency - to ensure that the kitchen emissions comply with DW/172 and DEFRA guidance. This is not just about protecting the environment from nuisance emissions, but also reducing grease build up in the ductwork, which could present a fire risk if left untreated.

Plasma Clean's Kitchen Ventilation range consists of a range of modular solutions for grease, smoke and odour control which can be used alone or can be combined to provide a site-specific solution. For example, a pizza restaurant will not require the same level of grease, odour and smoke control equipment as a char-grill steak house.

Starting at the canopy, our [Coil Filters](#) are designed to capture 95% of grease particles; between 55-70% more than traditional baffle-type filters. Our [Xtract](#) range releases natural ozone - a superb disinfectant and odour neutraliser - directly into kitchen ventilation systems. Our [Techniclean](#) range includes the canopy mounted **Techniclean CM**, combining high intensity UVC light with ozone technology to break down odour and grease in the air, as well as the **Techniclean Mini, 5000** and **7500** models; perfect for new projects or retrofitting into existing ductwork. High levels of grease and smoke particulate are treated by the [Electrostatix](#) and combining Electrostatic Precipitation with UVC, are our [ESP UV](#) units, provide highly efficient removal of grease, smoke and odour from a compact unit.

For a final polish - removing residual ozone - [Activated Carbon](#) filters are the ideal choice for low level extraction. Our Carbon Housing allows Activated Carbon filters to sit in 3, 6 or 9 easily mountable Sitesafe Discarb units.

When it comes to Control Panels, our **Air Flow Interlock** range is used to synchronise the operation of all of our Kitchen Ventilation products with detected air flow. The equipment is automatically turned off when the system is shut down, preventing accidental exposure to UVC light and ozone, whilst ensuring energy efficiency for the system. Options are available for Lamp Life Indicators, Lamp Fault and BMS interface.

## Treatment with Ozone from Plasma Clean

Oxidation using ozone and activated oxygen ions is used to treat odour emissions from commercial and industrial kitchen processes (DW/172: Specification for Kitchen Ventilation Systems and DEFRA, 2005: Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems). The unit has been specifically designed for use in commercial kitchens. The system injects ozone into the kitchen extraction canopy or ductwork where it reacts with odours.

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 to be interconnected to air flow or the main extraction fan control to ensure that the unit(s) only operate when the main fan is operating.

## 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 to be interconnected to air flow or the main extraction fan control to ensure that the unit(s) only operate when the main fan is operating. Multiple units can be joined together for increased volume or efficiency.

## Accessories

Installation kit  
Remote monitor

## Maintenance

A Plasma Clean service contract is available (please enquire) and in any case Plasma Clean would recommend:

- Routine cleaning of the housing and exchange of the prefilter when spent
- A yearly service is recommended

## Warranty

1 year Manufacturer's Warranty ([subject to terms and conditions](#))  
Extended 3 year Warranty (care plan available)

## Terms

In accordance with our standard terms of business.

## Technical Specifications & Data

Dimensions (HWD)	400 x 600 x 300mm
Control lights	Air Flow LED indicators
Capacity max.	Up to 3.0 m <sup>3</sup> /s (subject to grease and odour loading)
Volume flow rate (through unit)	0.066 m <sup>3</sup> /s
Pre-filtration grade	G4
Supply	230Vac/ 1 phase / 50Hz
Power	570W
Weight	25kg
Pressure drop	N/A (ozone injection)
Safety	Internal flow switch Recommended interlock to fan control
Finish	Powder coated mild steel
Approvals	Plasma Clean air cleaners comply with current CE requirements and EMC standards. Certificates are available on request.

