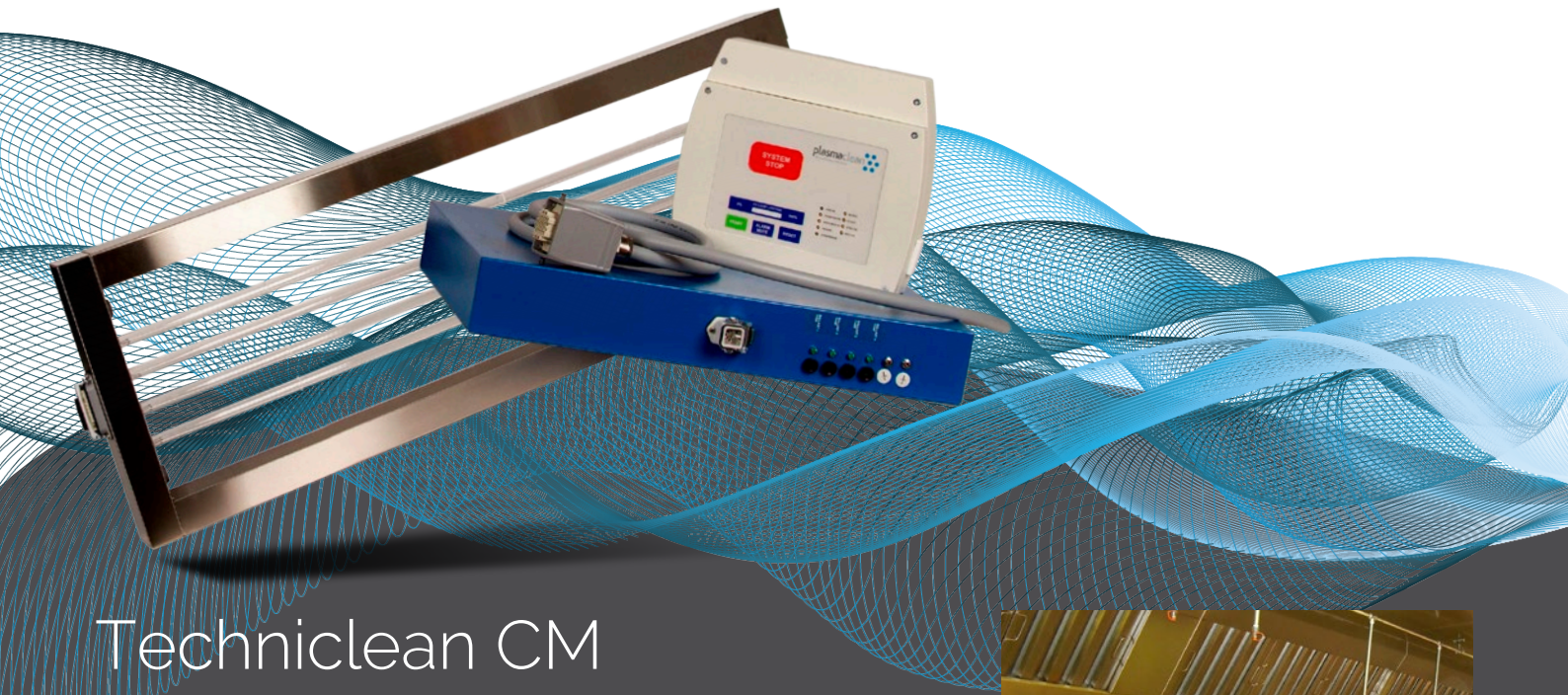




Techniclean CM

Techniclean CM is a canopy mounted UV-C system designed to break down odour and grease in the kitchen extraction air by the mechanism of photolysis and ozonolysis – combining high intensity UV-C light with ozone technology.

By preventing grease build up, fire risk in kitchen extraction systems is significantly reduced, duct cleaning is minimised, and nuisance odours are treated.

Using the latest long-life lamps with perfectly matched power supplies, Techniclean CM delivers superior performance and enhanced lifetime.



Aimed at Kitchen canopy manufacturers, the Techniclean CM range is designed to be incorporated into the canopy plenum, and comes as a complete kit featuring UV-C lamp frames, light guards, safety interlocks and control panel.

Product Specification	
Dimensions long unit	350H x 1600W x 80D mm
Dimensions short unit	350H x 900W x 80D mm
No. UV-C lamps per rack	2 - 6 subject to flow rate / cooking
Supply	230Vac / 1 phase / 50-60Hz
Power per tube	80 - 160W
Min / Max working temperature	4 / 60°C
Max relative humidity	75%
Noise	50dB
Pressure	<100Pa (with light guards)

The key advantages of the Techniclean CM system are:

- Slim-line, small footprint design
- Plug and play configuration
- Destroys grease and gaseous odours
- Low cost and limited maintenance requirements
- Dramatically reduces ductwork cleaning
- UV-C safety interlocks and control system with lamp life indicator

Oxidation of odour and grease by a combination of photolysis and ozonolysis is a recognised means of pollution abatement (DEFRA, 2005; Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems). The Techniclean CM UV-C system can be used across a wide range of applications from restaurants and cafes to food factories located in residential and business areas to control odour and grease from commercial cooking processes.

Safety

The unit contains high power UV-C lamps and direct exposure can be damaging to the skin and eyes. Canopy plenum modifications will be required in order to locate the lamp racks, UV-C light guards and safety interlocks. Please enquire – one of our design team will be able to assist.

Installation

The system has been designed to sit in the canopy plenum to treat grease and odours.

The system has a low back pressure and is to be interlocked with airflow to ensure that the system operates automatically when the extraction system is activated. Full installation and operating instructions are provided.

Operation and Maintenance

Over time, and dependent on the usage frequency, a fine layer

of ash is deposited on the UV-C lamps. These require occasional cleaning by simply wiping with a damp cloth which has been soaked in detergent, and dried using an organic solvent.

Maintenance and lamp replacement can be carried out under a Plasma Clean maintenance contract.

Companion Products

Where there is a high level of grease produced by the cooking process, Plasma Clean recommends that suitable steps are taken to prevent excess grease coating the UV-C lamps which may reduce performance. Coil filters are high efficiency canopy mounted grease filters which are used as a direct replacement for traditional baffle type filters.

For further information refer to Product Datasheet - Coil Filters

For high levels of grease and smoke, an electrostatic precipitator

can be used downstream.

Electrostatic Precipitators or ESPs working by ionising and trapping grease and smoke particles and have a low pressure drop with high particulate removal efficiency.

For further information refer to Product Datasheet - Electrostatic

Where there is a low level discharge into a sensitive area, any excess ozone produced may be removed using an ozone destruction unit – please enquire.

Any questions?

Contact one of our engineers who will be at hand to advise on the most appropriate odour control solution.

Email: ask@plasma-clean.com
Tel: +44 (0)161 443 4125



British innovation
Global distribution



Plasma Clean Limited, SBIC
Broadstone Mill, Broadstone Road,
Stockport, Cheshire, SK5 7DL . UK

Email: ask@plasma-clean.com
Tel: +44 (0)161 443 4125
www.plasma-clean.com

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