

## ***Odour Neutraliser – UV Ozone For Kitchen Extracts***

### **Applications**

- **Odour Reduction from Kitchen Extracts**
- **Grease Reduction**
- **Retro fittable**
- **Out of Air Stream UV Lamps ensure efficient odour control with low maintenance.**

The Airclean Odour Neutraliser is capable of neutralising odours created in the commercial kitchen environment.

Utilising Ultra Violet technology, ozone is produced from a low pressure UV lamp designed to operate at a specific wavelength of 184nm, which generates ozone.

Ozone is drawn into the airstream where it mixes with and oxidises odorous organic compounds present, breaking them into Carbon Dioxide and water, along with some residual ozone, thus rendering them odourless. The oxidation process will also act upon grease present in the air stream leading to a reduction in duct cleaning costs.

This out of air stream UV solution ensures that costly UV tubes do not lose efficiency by getting coated in grease present in the kitchen extract and rendering them useless. This system requires minimal maintenance whilst ensuring the important active ingredient utilised in all UV odour control systems, Ozone can oxidise the odorous organic compounds. By mounting this unit at the earliest point possible in the system (preferably at the Canopy), the maximum contact time can be achieved for the ozone reduce odours.

### **Technical**

The units have a spigot connection at the rear, allowing for direct mounting onto square ductwork or the canopy where the spigot connection protrudes directly into the air stream. Where the unit can not be fitted directly to duct work or canopy in this way the spigot can be extended using fully sealed 100mm duct to a maximum of 1m.

A single UV Ozone Odour Control Unit can treat up to 1.5m<sup>3</sup>/s of air effectively, assuming a reasonable contact time is achieved (minimum 2 seconds in air stream). Should a greater amount of air, need to be treated, or for sensitive areas of discharge, multiple units can be utilised, or the system can be used in conjunction with the Airclean Kitchavent system.

<b>Housing Material</b>	Stainless Steel
<b>Dimensions:</b>	615H x 350W x 290Dmm
<b>Weight:</b>	14kg
<b>Operating Conditions:</b>	MAX : 38 Deg C
<b>Max Air Volume Per Unit :</b>	1.5m <sup>3</sup> /s
<b>Supply:</b>	230V Single Phase 50Hz
<b>UV Lamp Type:</b>	4 Lamps @ 185nm and 254nm (12000 Hrs)
<b>Spigot Connection:</b>	At rear of unit for direct duct mounting. (100mm Dia) To be fitted on negative pressure side of ductwork



## Safety

- This unit produces ozone.
- The ozone produced by the unit is drawn from the unit by the extract system by the negative pressure of the extract system.
- The unit must be connected to the negative pressure side of the extract duct.
- Interlock the unit with the exhaust fan to prevent it producing ozone, when the extract air is not being drawn from the area.
- The safe operation of the system should be checked regularly in line with all electrical appliances ensuring the total effectiveness of the safety micro switches and the pressure switch to protect the user from UV and Ozone exposure.

## Manufacture and Cleaning

The unit is located within the "normal" kitchen atmosphere and is not subject to the grease laden atmosphere of the extract system which minimises the requirement for regular cleaning unlike Inline systems.

Equipment	Dimensions			Description	Part Numbers
	H	W	D		
UV OZONE ODOUR CONTROL UNIT (240 Volt)	615	350	290	Suitable for up to 1.5m <sup>3</sup> /s (Min 2 Second Contact Time from insertion point), Direct Duct Mount Only, Rear Spigot, to be fitted to negative pressure side of ductwork.	1913207
OZONE MONITORING	150H x 80W x 50Dmm			Ozone Monitoring System with Audio and Visual Alarm including a Volt Free Relay Switch Mains Operated	1913303