EX RANGE OF CONTROLLABLE ODOUR CONTROL MODELS

THE SAFE INTELLIGENT ODOUR CONTROL SYSTEM THAT NEVER EXCEEDS PERMITTED OZONE DISCHARGE LEVELS WHILST ENSURING THE REMOVAL OF ALL TRACES OF COOKING SMELLS

BENEFITS

SAFETY BUILT IN
Air pressure switches ensure activation when the extract system is in operation and external ozone sensors ensure ozone levels are controlled at the point of discharge.

MEETS CURRENT OZONE DISCHARGE LEVELS
Discharge monitors ensure that the Controlled Ozone units never exceed the permitted discharge levels whilst ensuring the full effectiveness of the ozone.

ENERGY SAVING
Because the Controlled Ozone units are set to vary the ozone levels produced on demand, there is a considerable energy saving over static systems that produce one level output in all circumstances.

FLEXIBLE SOLUTION
Compact design, can be mounted direct to canopy or extract ductwork on new or existing systems without an increase in pressure drop.

CLEANER OPERATION
With no UV lamps to get dirty, ozone output is maintained at a constant level and with no fluids to top up, servicing is quick and simple.

EASY INSTALLATION
Ozone is generated from ambient air and can be injected directly into the canopy plenum via a single connection for better odour control.

BACKGROUND

Ozone has long been recognised as a very effective medium for the neutralising of cooking odours and injection into the kitchen extraction system has proven to be effective in the control of odour emissions, however, ozone emissions must be within safe levels.

Working within the accepted industry guidelines of 1 gram per 0.09 m³\s of air volume @ 1.5 seconds of dwell time within the ducts, to achieve neutralisation of 80% of cooking odours and maximum discharge levels of 0.3 ppm ozone concentration, the Controlled Ozone products are designed to be the first fully controllable, energy efficient, future proof units developed to reduce cooking odour emissions.

The monitoring processes of the CoRange start with the production levels of ozone being controlled via an electronic air-pressure switch within the injector, which controls the concentration ratio of air \ ozone in the extract ducts.

To ensure the correct concentration the CoRange Injector will increase its output of ozone by 10 grams per every 1 m³\s of air volume within the duct, therefore:

Up to 3 m³\s = 20 grams of ozone injected

Up to 4m³\s = 40 grams of ozone injected

Up to 6 m³\s = 60 grams of ozone injected

The second stage of control is via a discharge monitor situated at the end of the extract duct, this monitor is factory set at 0.3 ppm of ozone to comply with HSE guidelines for discharge to atmosphere within 10 metres of the closest habituated premise.

SYSTEM PROCESS

Controlled Ozone Units start the odour control process by injecting ozone directly into the kitchen extract system as close to the source of cooking emissions as possible i.e. into the canopy plenum or the first section of ductwork. Ozone reacts with odorous compounds contained within the cooking emissions oxidising them into compounds with significantly lower odour characteristics.

An air pressure switch fitted to the unit is activated by air movement within the extract system so that ozone production can only occur under safe operation conditions. The final protection of the ozone monitor ensures ultimate safe operation at all times.

pmjkitchenventilation.co.uk

PMJ

4 Springvale Mill
Waterside Road
Haslingden
Lancashire
BB4 5EZ

CONTROLLED OZONE OUTPUT IDEAL FOR COMMERCIAL KITCHEN APPLICATIONS

UNIT DATA

Co20		
Dimensions 400L x 155W x 155H		Ozone Output: 10 to 20 grams / hour
Spigot Size: 98mm O/D		Air Volume Capacity: 0.9 to 1.9 m^3/s
Airflow sensor / Pressure Switch: Yes		Ozone Discharge Monitor Available: NO

Co40 – Co60		
Dimensions: 400L x 355W x 155H		Ozone Output: Co40 – 40 grams Co60 – 60 grams
Spigot Size: 123mm O/D		Air Volume Capacity: Co40 - 3.8 m^3/s Co60 – 4.7 m^3/s
Airflow sensor / Pressure Switch: Yes		Ozone Discharge Monitor Available Yes

All units require a 1 phase 220V 50Hz 2A electrical supply.

ACCESSORIES

EX15 External Ozone Sensor		Protection for installations where discharge is deemed high risk
Dimensions: 200L x 150W x 95H		Detection Level: Variable adjustment to meet local guidelines
Cabinet Protection: Weatherproof	EX15	Compatibility: For use with Co40 and Co60

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