

C3

from

Springfield  Group
PRODUCTS

03 Ozone Injectors

Co200 v's UV Risk Assessment	UV Ozone	Ozopure
Risk of Arc-eye from UV Bulbs	Yes	No
Risk of Bulbs splintering in the ducts or canopy	Yes	No
Risk of Grease Build-up on bulbs	Yes	No
Reduction of efficiency within six months	Yes	No
Requirement to replace bulb after six months	Yes	No
Controllable output	No	Yes
Always fitted out of the air stream	No	

The Controlled Ozone Odour Reduction Units use the efficiency of reactor produced ozone, this technology has been developed over the past 5 years by a team connected to Reading University.

The current WEL2 for ozone is 0.2 ppm in air averaged over a 15-minute reference period. Oc200 Units can be fitted with a "Traffic Light Warning System" that will indicate when the unit is powered, when ozone is being produced and if the output level of 0.2 ppm is exceeded. The Oc200 generators can be controlled in a way not achievable by other methods of ozone production currently being used to control odour.

The ozone produced by the Co200 Units is injected into the canopy plenum or the early stage of the extract duct, this is not possible with UV Bulbs, they must be sited much later into the extraction path because the bulb glass becomes fragile if subjected to the levels of heat that builds up in the plenum and early duct. The benefits of this early injection of ozone are two fold;

- 1) The ozone is given longer in contact with the organic particulate from the cooking process to break it down
- 2) The ozone reverts quicker at higher temperatures allowing a slightly higher concentration of ozone to be injected into the plenum but still maintain safe levels of emission.

The consistency of the output from the Oc200 over a long period of use means that the safe levels of injection remain the same with only a yearly inspection/service, the UV Bulb losses its efficiency over its life and may only be producing 50% of the original ozone levels after six months use, if the bulb is not replaced at this stage a steep decline in its output will take place.