Disinfection

without chemicals

control surface contaminating bacteria such as MRSA and retro viruses

- Disinfection of clean rooms
- Hospital rooms
- Food process factories
- Children play areas
- Air conditioning system
- Disinfect a house
- Doctor waiting rooms
- Hotel rooms
- Toilets
- Restaurants
- Industrial kitchens
- Swimming pool changing rooms and pool surrounds
- Cold storage rooms
- Municipal buildings and ventilation systems

Why

The Dryden aqua UV ozone generators are automatic units unaffected by humidity that can either be used as portable system or permanently mounted. For stationary permanently mounted units we recommend a 7 day timer, this allows the unit to work automatically. For example in a swimming pool changing room it may turn on for two hours every night. By morning the room will have no nasty odours and will have been disinfected. This will have been achieved with no chemicals or work by personnel. The equipment will also run for many years, with the minimum of attention.

How to use

- Only use when there are no people or animals present in the room. Ozone may also affect plants.
- Set timer, turn on unit and leave the room. Lock the doors and insure that nobody can enter the room until the ozone generator has been turned off for a period of at least 4 hours. Use and ozone monitor to insure that the ozone concentration is less than 0.1ppm

The amount of ozone required to achieve the desired result depends upon the application and the ozone demand of the facility. However if we take a typical example, of de-odourising and disinfection, you want to achieve around 1 to 2ppm for a period of 30 to 60 minutes

1 g/hr of ozone in 1 cubic meter of air gives approx 460ppm of ozone concentration. If we take a room 10m x 10m x 3m, volume = 300 cubic meters, 1 g/hr of ozone will give 460/300 = 1.5 ppm. The DAUV 4000 produces 4g/hr, so in one hour the concentration of ozone will be 1.5 x 4 = 6ppm, assuming that there is no ozone consumption or reduction. On this basis, the DAUV will only need to be one for a period of 20 minutes. This time interval can be used as a starting point, it may be necessary to increase or decrease the time interval to suit individual applications. When UV ozone generators are used, and the same air recycled in the room, the ozone level will not continue to increase, it will level out at a few ppm of ozone.

Ozone monitoring

Dryden Aqua has a range of ozone monitors; it is important to monitor the ozone levels to insure that the concentration is below 0.1ppm before anyone enters the room. We can also provide ozone monitors that can interlock to the generator which will limit the ozone in air level to 0.1ppm, details from Ozone.co.uk.

Dryden Aqua Ltd
Butlerfield, Bonnyrigg, Edinburgh EH19 3JQ
Scotland, UK Tel 018758 22222 Fax 018758 22229
www.AFM.eu www.Ozone.co.uk