

Benefits of Ozone for Air Treatment

- Ozone is more effective than other air disinfecting systems such as chemical fogging against
- In growing birds, ozone in the pens as a gas reduces the amount of bacteria and thus reducing the spread of infection and viruses thereby increasing their health and even weight by up to 18%. Ozone application helps to improve their skin color.
- Ozone oxidizes ammoniac gases, methane and carbon dioxide, creating a healthier environment for the birds and the staff working in the poultry.
- Ozone is more effective than formaldehyde in disinfecting poultry sheds and requires no dormant period in which the sheds have to remain evacuated. Immediately after disinfecting by ozone at high concentrations, the shed is ventilated and can be inhabited by the birds and staff safely. Unlike formaldehyde, ozone is non-carcinogenic.
- Hatching hens which are kept under ozone conditions show an increase in the amount of eggs they lay, and a stronger consistency of the egg shell, because of the corresponding decrease in pathogenic illness and prevention of a toxic build up of disinfectant chemicals. Ozone is used to disinfect incubation rooms and chambers, in the place of chemicals which cause a toxic build-up on the egg shell surfaces and weaken the immune system of the birds.

Ozone Injection to the Air

Injecting ozone to the air of salons is done in two ways:

In “Attack form” which depends on environment pollution ratio: Ozone system starts automatically one hour after leaving of last worker and injects Ozone in high concentration. This will be continued till two hours before entering workers to the salons. In this case not only air of salons will be disinfected but also all surfaces will be sterilized.

In the second case, when employees are working, system performs by automatic control to sterilize operation. It should be noted that with this method all microorganisms, including viruses will be disappeared. This device is equipped with ozone sensor and monitoring system to on-line measurement of ozone in the air and on-screen display indicates to ensure about the system working.