

A customized mini version based on Industrial Solutions

Apart from standard product ranges, BioZone has been very successful in offering customized solutions to the industrial sector helping them to comply with the legislation on industrial emission and to reduce impact to the environment, by eliminating unacceptable pollutants or odours from industrial exhaust.

BioZone, by tapping on their expertise and experience in designing industrial solutions, has recently developed a mini version – the UltraZone – for meeting the needs of some difficult or highly contaminated applications in the commercial sector.

The UltraZone was firstly designed to work in a hostile environment on the shop-floor of a district sewage treatment plant (STP) in Hong Kong for reducing odour and contaminants that are present in the indoor air of the plant room.

Carbon filter in the form of charcoal tank was originally used in the premises. The carbon filter was only fairly effective at the initial period. The performance deteriorated very rapidly with time. Two UltraZone units were first used in the application for a shop-floor area of about 150 m².

Testing by independent third party has shown some 70% reduction of H₂S and other constituent gases as well as the odour in just 16 hours. The STP plant management found that the units were appropriate for the day-to-day operation in the concerned plant and will provide a safe and healthy environment for the staff and workers in the premises.

The UltraZone is developed in such a way that minor modifications can be easily customized to adapt different applications. Please contact your local distributor for details.



Higher Power
More Cost Effective
Performance

Applications

For rapid decontamination and deodorization in :

- Sewage treatment plant room
- Large garbage collection and storage facilities
- Large scale grease trap room
- Small to medium size industrial emission to meet local legislation requirements
- Large contaminated area

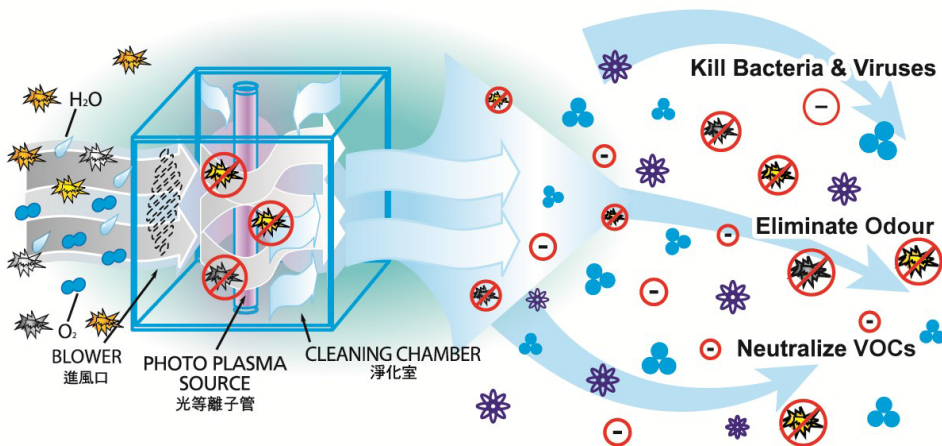


Feature

- Equipped with 6 nos. of 15" plasma tube
- Plasma tube are individually switchable to suit varying site condition
- Equipped with mesh filter for use in hostile environment to facilitate easy maintenance
- Over 95% component are CE certified (Model with 100% CE certified components is available)
- Easy to handle – with handles and wheels
- Cost-effective performance

Technology

BioZone Air Purifiers integrate the latest air purification technology – Photoplasma – with other prevailing technologies. BioZone Air Purifiers are capable of effectively eliminating both airborne and surface contaminants, while most of the air purifiers cannot.



Almost all common indoor contaminants are organic in nature, based on combination of carbon and hydrogen known as hydrocarbon chains. Biological contaminants like bacteria, viruses, and fungi are carbon based. These harmful carbon based organic molecules can be broken down by way of plasma and photochemistry reactions.

The combination of ultraviolet light and plasma has been reported to be extremely potent in removing contaminants from indoor air and surfaces.

For instance, if removing biological contaminants from surfaces by corona discharge created ozone take some 10 hours, Ultraviolet light in the highly bactericidal range of

253.7 nanometers would take 1 hour to do the same job for same result. Corona discharged ozone and ultraviolet light combined would achieve the same result in 1.5 minutes. However, the use of a broader and more energetic ultraviolet bandwidth combined with the resulting plasma would clean the same surface in 20 seconds.

If you are interested in knowing more about the available solutions, please contact:



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