

InDuct (ID) & Induct-X (ID-X) Series Cleaner Air Healthier Life



Features of BioZone[®] Air Purification System

Eliminates airborne and surface microorganisms

e.g. bacteria, viruses and fungi

Decomposes volatile organic compounds (VOCs) and other organic compounds

e.g. formaldehyde, benzene and members of PAHs

Removes hazardous chemical gases

e.g. ammonia and hydrogen sulfide

Reduces unpleasant odours

e.g. tobacco smoke, musty odour and cooking smell

BioZone® Air Purification Technology : PhotoPlasma™



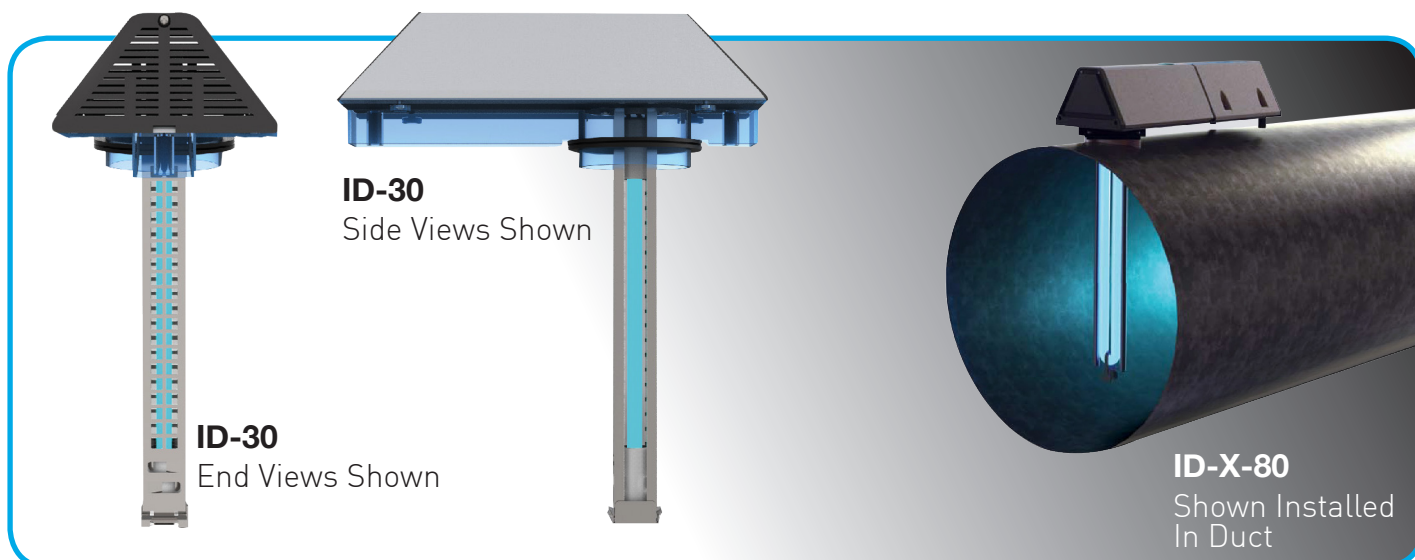
PhotoPlasma™ is generated by airborne molecules such as oxygen and water vapor under the exposure of the specialized UV spectrum. It includes reactive oxygen species, free radicals, electrons, etc., which actively capture various air contaminants, and rapidly destroy their structures through a chain of reactions. In this way the contaminants are decomposed and converted into harmless end-products like carbon dioxide and water.

Applications

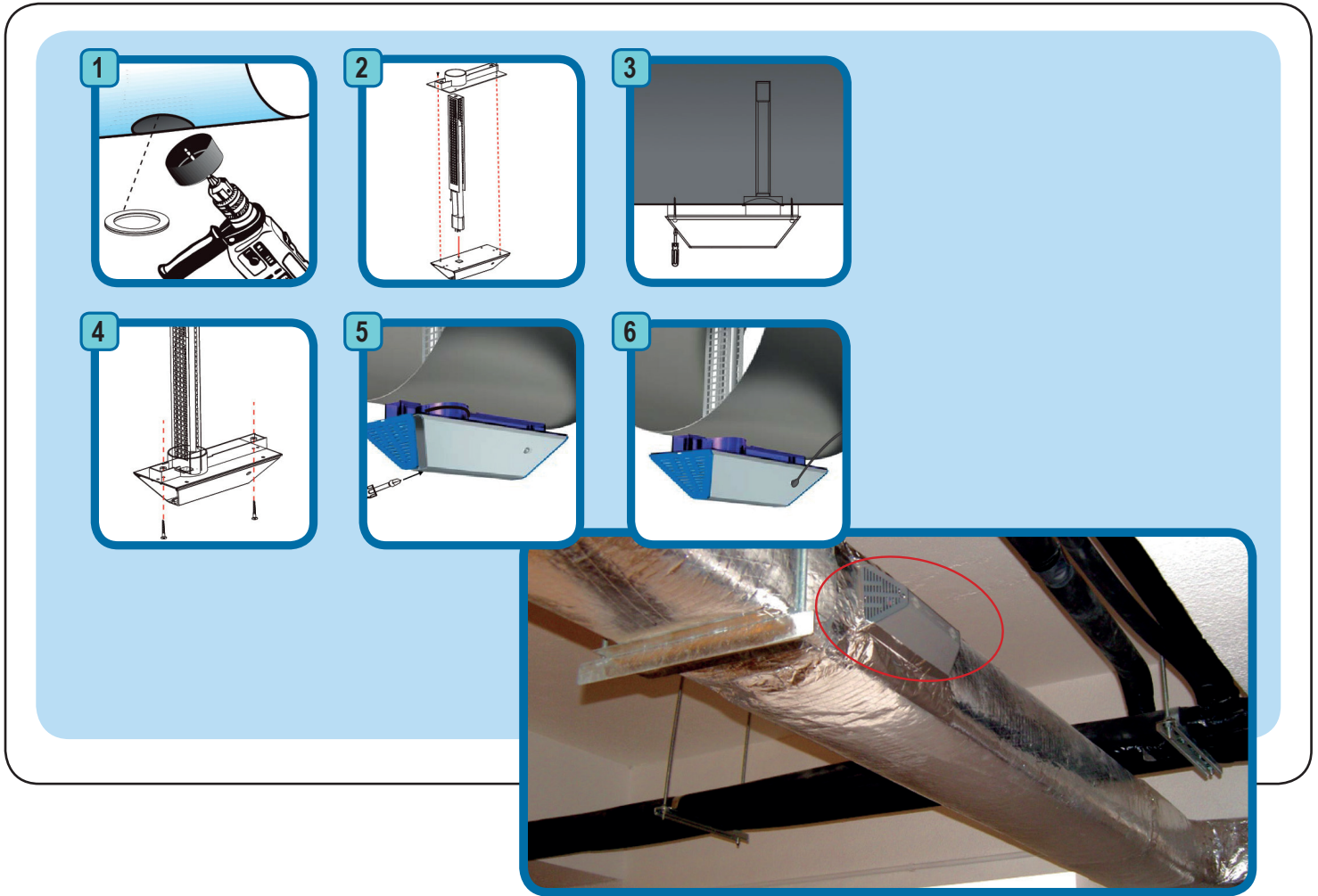


Product Design

InDuct and InDuct-X Series can be installed in any buildings or units with a HVAC system.

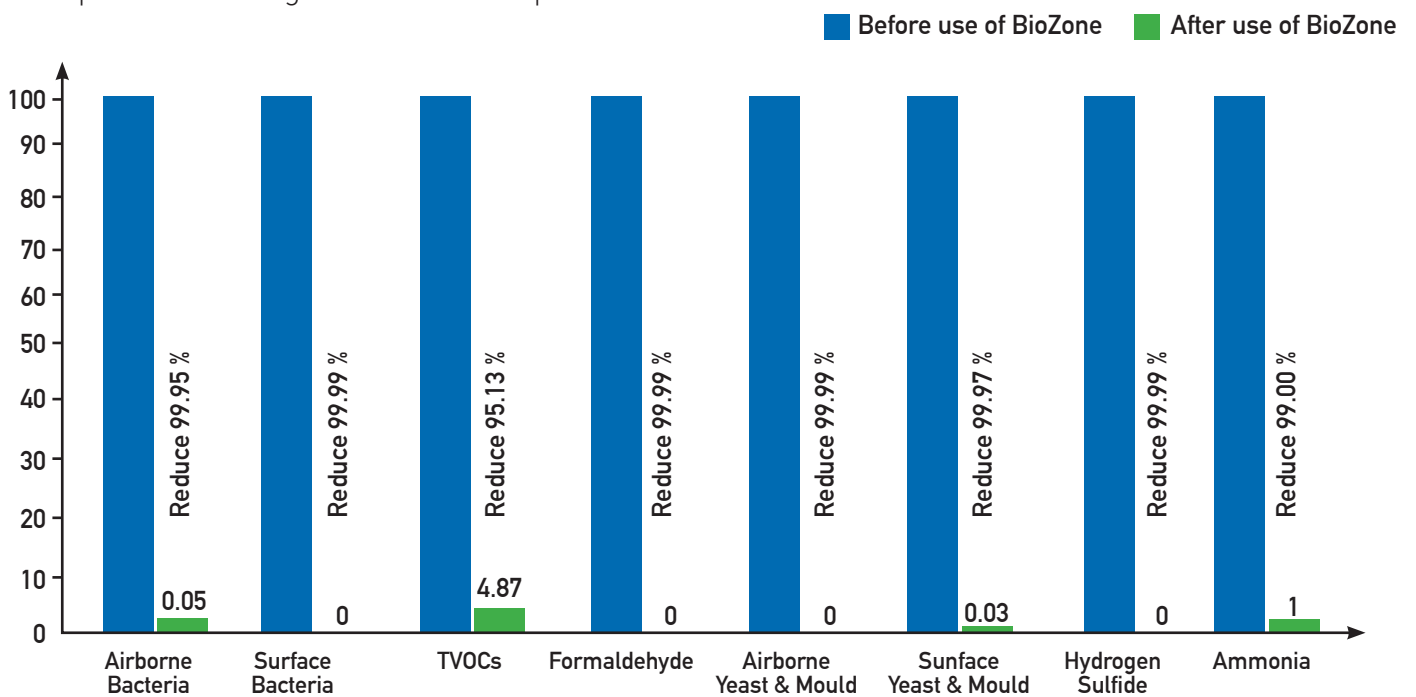


Product Installation



Performance

Proven performance against various air pollutants

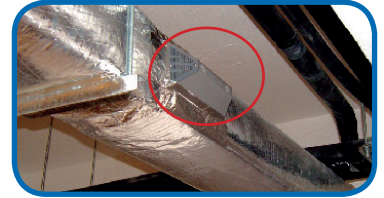


* Samples and tests were taken by third-party accredited laboratories

The accumulation of airborne pollutants on the HVAC system allows microorganisms to proliferate exponentially to form biofilm, which can reduce heat transfer efficiency thus increasing power consumption. Meanwhile, microorganisms can spread through indoor areas via the system, causing potential outbreaks of respiratory diseases. UVC lamps are sometimes installed in HVAC system as a means to tackle the issues mentioned. However, it is a passive purification method as the lamps can only kill microorganisms within a specific distance, and various air contaminants cannot be completely eliminated.

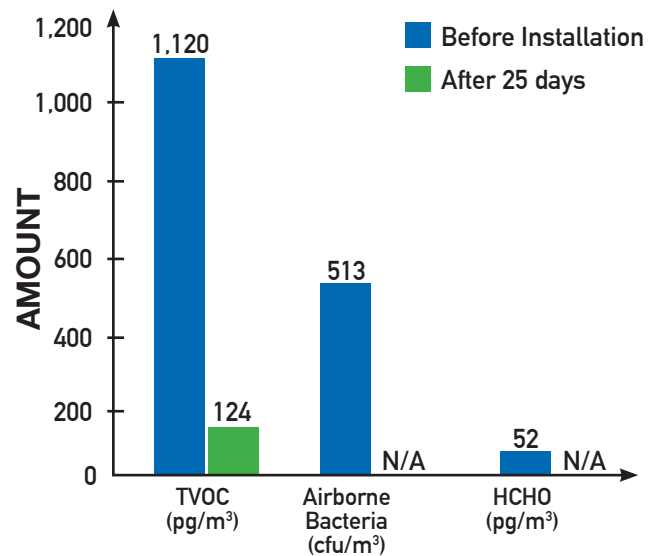
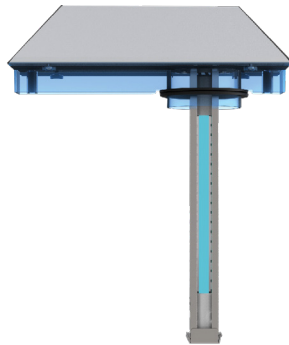


BioZone air purification devices are specially designed to fit into HVAC system to remove chemical and biological pollutants inside the air ducts. Indoor air contaminants can also be tackled by PhotoPlasma, which is evenly allocated by the air distribution system.



Case Study

An international school near Repulse Bay installed BioZone® devices at fan coil units to solve the problems of odour, airborne bacteria, and volatile organic compounds (VOCs) in the classroom. After installation, conditions improved so successfully that the school achieved 'Excellent Class' status under the Hong Kong government's Hong Kong Indoor Air Quality Objectives.



Norminal Specifications

Model	ID-10	ID-20	ID-30	ID-40	ID-60	ID-80	ID-X-60	ID-X-80
Coverage Area* (Normal Environment m²)	28	73	115	250	850	1,150	850	1,150
Base Size (mm)	200(L) x 100(W) x 76(H)				300(L) x 100(W) x 76(H)		300(L) x 100(W) x 76(H)	
Lamp Size (mm)	203				280	381	280	381
Weight (g)	580				675	1050	2495	
Power Input	110-240VAC, 50-60Hz							
Power Adaptor	12VDC, B centertap +				12VDC, B centertap +		12VDC	
Power Consumption (W)	<24				<60		<100	
Lamp life	Up to 8000hrs							

*Performance and effective coverage will depend on degree of contamination in the concerned environment.



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