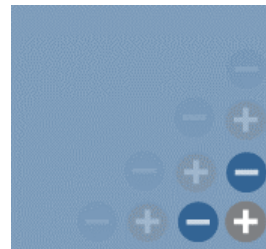
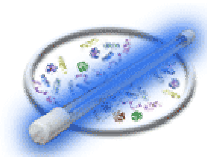




**Series: OceanClean**  
**Model: UV600**  
*Germ Hunter*



*by Ultraviolet Sterilizing Lamp (UV) and Plasma IONS (+/-)*





**Series: OceanClean  
Model: UV600**

**Germ Hunter - Feature:**

- Ceiling Mounted / Wall Mounted / Free Standing
- 3 different model available: UV600 / PTU600 / Plasma 600
- Durable Metal Casing with Epoxy Coating
- Cyber design - LED Lamp Indication
- Remote Controller
- Equip with internal fan
- Equip with "innoclean" high output UV Sterilizing Lamp
- Equip with washable "ITP" TiO2 coated metal filter
- Equip with Plasma Ions (+/-) Generator

**Functions:**

- Bacteria and Virus kill
- Removal bad odor
- Remove toxic chemical e.g. TVOC and HCHO...
- Remove Dust Particles

**Testing and Certificate:**

- ALS Testing – TiO2 Material
- ETL Testing – PCO Filter
- MSDS – TiO2 Material
- LAWN – IAQ Performance Test
- CE, UL ROHS Certified

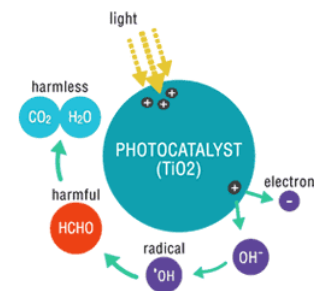
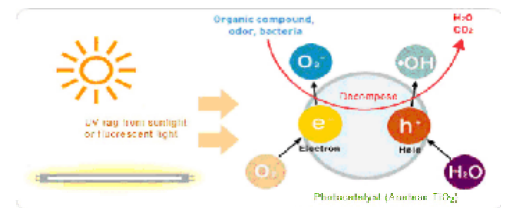


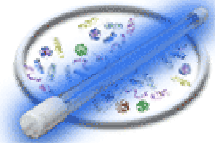
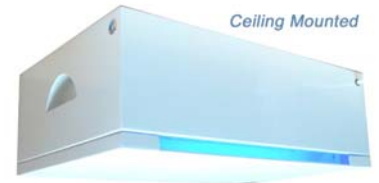
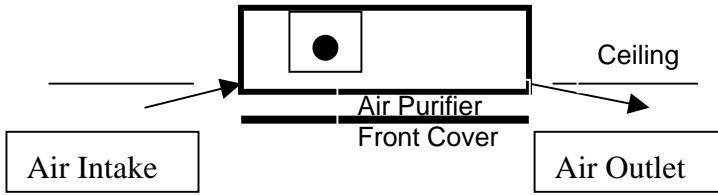
**Photo Catalytic Oxidation (PCO)**

The key to PCO is the photocatalyst. A photocatalyst is a chemical compound e.g. TiO2 Titanium Oxide that becomes highly reactive when exposed to various wavelengths of UV light. In the presence of organic pollutants, such as hydrocarbons, chlorinated solvents, alcohol, ketones and aromatics compounds, the active photocatalyst attacks the pollutants' chemical bonds, converting the toxic compounds into benign constituents, such as water and carbon dioxide.

Photocatalytic systems have the ability to convert toxic carbon monoxide, at room temperature, to non-harmful carbon dioxide. This is a major development because carbon monoxide often is a cause of sick-building syndrome and it cannot be removed from the air with any type of absorption media.

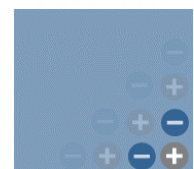
**Photo of Photocatalyst (TiO<sub>2</sub>)**





Bacteria and Virus Kill.  
Prevent Cross-contamination  
By  
"innoclean"  
**Germ Hunter**

Brand	"innoclean"
Series	"OceanClean"
Model	UV600
Product Name	"Germ Hunter"
TiO2 過濾網 / TiO2 Filter	"ITP"
TiO2 filter size (mm)	300 x 120 x 20
TiO2 Filter	Washable
UV Sterilizing Lamp	"innoclean"
High Output UV Sterilizing Lamp	1 pcs.
UV Lamp Output ( $\mu\text{W} / \text{cm}^2$ )	7,500
UV Lamp Output @1m ( $\mu\text{W} / \text{cm}^2$ )	57
Plasma Ions Generation	Positive (+) and Negative (-)
Ions Generation Rate	$5 \times 10^6$
Internal Fan	YES
無線遙控 / Remote Control	YES
LED Lamp Indication	2 Sides
耗電量(瓦) / Consumption Power (W)	40 Max
電壓 / Voltage (V)	220 - 240
安全門鎖 / Safety Door Lock	YES
顏色 / Colour	White
空氣流量 / Air Delivery (metre <sup>3</sup> / hour)	250
最大適用面積(平方呎) / Area (sq. ft)	600 – 1,000
TiO2 建議過濾網有效期(年) Suggested Filters Lifetime (yr)	Lifetime
建議 UV Lamp 有效期(年) Suggest UV Lamp Replacement (years)	2 – 4 (25,000 hrs) (9,000 hrs. drop 20% - 30%)
尺寸(高 x 寬 x 深)毫米 Dimension (L x W x H) mm	480 x 320 x 165
安裝天危板後之可見面板 尺寸(高 x 寬 x 深)毫米 (L x W x H) mm	480 x 320 x 15
重量 / Weight (kg)	9.5





More than 90% of Bacteria and Virus listed below would be killed in only ONE Times pass through "OceanClean" – *Germ Hunter*

ORGANISM	Comment	UVC - LETHAL DOSE  Required to kill the bacteria (microWatt.sec/cm2)	Germ Hunter: 4280 (microWatt.sec/cm2) "OceanClean" would Kill the Bacteria and Virus
			Nos. of pass
Bacillus anthracis		1960	1
Bacillus magaterium sp.	Spores	1190	1
Banillus magaterium sp.	Veg.	565	1
Bacillus paratyphusus		3200	1
Bacillus subtilis spores		11600	3
Bacillus subtilis		2500	1
Clostridium tetani		5600	2
Corynebacterium dephteriae		1460	1
Eberthella typosa		930	1
Escherichiae coli		1300	1
Leptospira Canicoal	Infections Jaundice	1370	1
Microccocus candidus		2630	1
Microccous spheroides		430	1
Myrobacterium tuberculosis		2700	1
Neisseria catarrhalis		1900	1
Phtomonas tumeficiens		1900	1
Proteus vulgaris		1300	1
Pseudomonas aeruginosa		2400	1
Pseudomonas fluorescens		1520	1
Salmonella enteritidis		1740	1
Salmonella paratyphi	Enteic fever	1390	1
Salmonella typhosa	Typhoid fever	935	1
Salmonella typhimurium		3470	1
Sarcina lutea		8560	2
Serratia marcescens		1050	1
Shigella dysenteriae	Dysentery	960	1
Shigella flexneri	Dysentery	740	1



Shigella paradysenteriae		730	1
Spirillum rubrum		1900	1
Staphylococcus albus		800	1
Staphylococcus aureus		1130	1
Streptococcus hemolyticus		940	1
Streptococcus lactis		2670	1
Streptococcus viridans		870	1
Vibrio comma	Cholera	1470	1
Mucor racemosus A	White-gray color	7400	2
Mucor racemosus B	White-gray color	7400	2
Oospora lactis	White color	2200	1
Penicillium expansum	Olive color	1300	1
<b>PROTOZOA</b>			
Chlorella vulgaris	Algae	5650	2
Nematode	Eggs	1740	1
Paramecium		4780	2
<b>VIRUS</b>			
Bacteriophage	E.Coli	1130	1
Infectious Hepatitis		2520	1
Influenza	Common flue	1480	1
Poliovirus - Poliomyelitis		1370	1
<b>YEAST</b>			
Brewers yeast		1430	1
Common yeast	Cake	2610	1
Saccharamyces carevisiae		2610	1
Saccharamyces ellipsoideus		2610	1
Saccharamyces sp.	Spores	3470	1

**Tips:**

Please note that many variables (air flow, humidity, distance of microorganism to the UV light, irradiation time) take place in a real world environment that make actual calculating of the UV dosage very difficult. However, it is proven that UV light will kill any DNA-based microorganism given enough UV dosage. UV breaks down DNA on a cumulative basis. Therefore, as air circulates through the air cleaner containing an UV light, the UV light continuously disinfects the air. If a microorganism is not effectively deactivated on the first pass through the air cleaner, the UV light will continue to break its DNA down on subsequent passes. Microorganisms do not sit in a static environment in air cleaner except on cooling coils of a HVAC system, which can be exposed to UV light also. Microorganisms multiply rapidly if not controlled. The UV light helps to reduce airborne microorganisms from the indoor environment.

The above are incident energies of germicidal ultraviolet radiation at 253.7 nanometers wavelength necessary to inhibit colony formation in microorganisms (90%) and for 2-log reduction (99%):

OceanClean – Germ Hunter tell you that to determinate the air cleaner can really kill the bacteria and virus in your environment, it's depends on the UV Dosage of the UV Lamp can provide.

市面上有不用牌子的紫外光殺菌燈或紫外線空氣淨化器，同樣可做到不同程度的殺菌效能，但一般市民都可能不知，一支紫外光殺菌燈的效能是取決於它的"**Dosage – microwatts. Sec. per/cm2**". 一支高效能的紫外光燈比一支普通家用式紫外線空氣清新機內的紫外光燈可能相差幾十倍的效果。選擇時請加以留意。