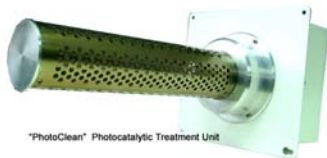
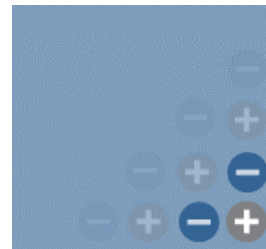




Series: OceanClean
Model: PTU600
Toxic Hunter



"PhotoClean" Photocatalytic Treatment Unit



by Photocatalytic Oxidation (PCO) and Plasma IONS (+/-)



sailing with me by OceanClean



Series: OceanClean
Model: PTU600

LED

Toxic 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 "PhotoClean" PTU102D PCO Probe
- Equip with washable "PhotoTroph" Ceramic Honeycomb PCO Filter (200 holes / inch.2)
- 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
- HK Fire Services Department approved – PCO
- CE, UL ROHS Certified

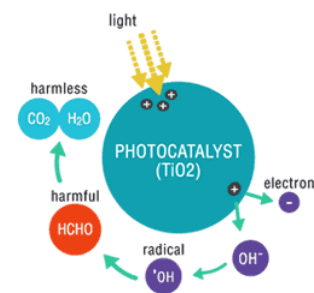
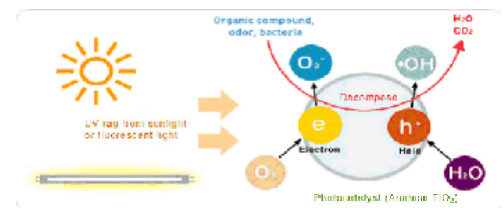


Photo Catalytic Oxidation (PCO)

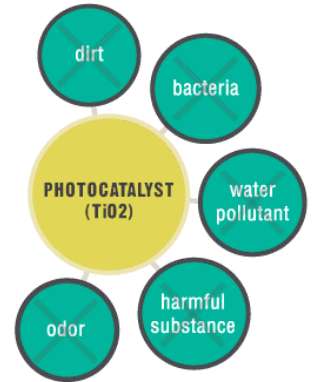
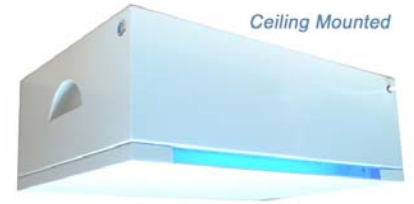
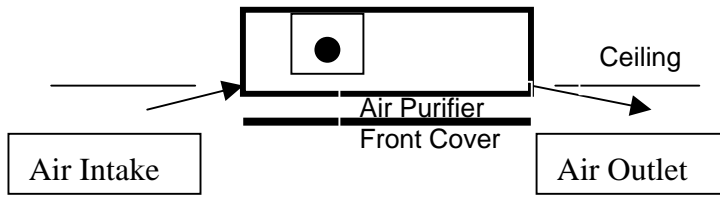
The key to PCO is the photocatalyst. A photocatalyst is a chemical compound e.g. TiO₂ Titanium Oxide that becomes highly reactive when exposed to various wavelengths of UV light. In the presence of organic pollutants, such as hydrocarbons, chlorinated solvents, alcohol, ketones and aromatics compounds, 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.

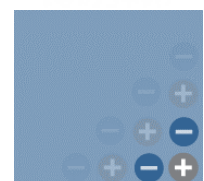
Photo of Photocatalyst (TiO₂)



Sailing with me by OceanClean

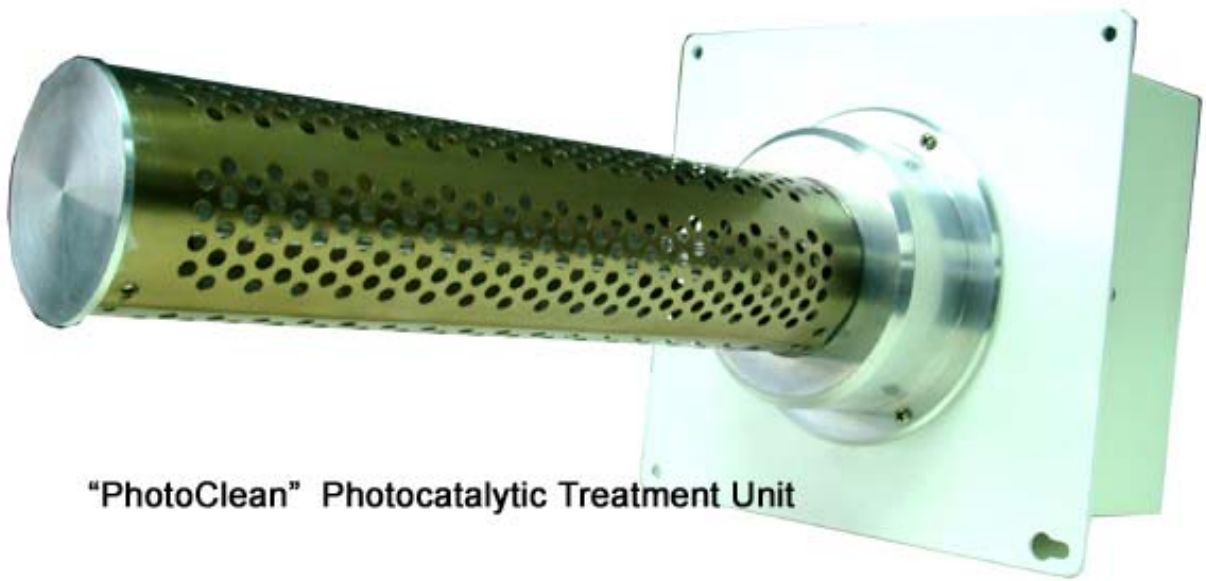


Brand	"innoclean"
Series	"OceanClean"
Model	PTU600
Product Name	"Toxic Hunter"
PCO過濾網 / PCO Filter	"PhotoTroph"
PCO filter size (mm)	300 x 120 x 20
PCO Honeycomb (Holes / inch.2)	200
PCO Probe	"PhotoClean" 102D
UV Sterilizing Lamp size (inch)	9"
UV Lamp Output ($\mu\text{W} / \text{cm}^2$)	4,200
UV Lamp Output @1m ($\mu\text{W} / \text{cm}^2$)	32
Plasma Ions Generation	Positive (+) and Negative (-)
Ions Generation Rate	5×10^6
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 ³ / hour)	250
最大適用面積(平方呎) / Area (sq. ft)	600 – 1,000
PCO 建議過濾網有效期(年) Suggested Filters Lifetime (yr)	Up to 5
建議 UV Lamp 有效期(年) Suggest UV Lamp Replacement (years)	2 – 4 (25,000 hrs) (9,000 hrs. drop 20% - 30% Efficiency)
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 Dimension (L x W x H) mm	480 x 320 x 15
重量 / Weight (kg)	10





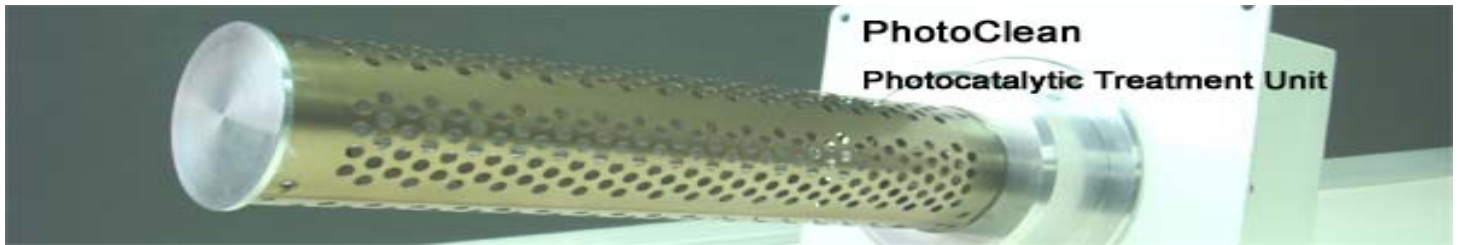
*Quality Life
begins with your Air Indoor*



"PhotoClean" Photocatalytic Treatment Unit

PTU

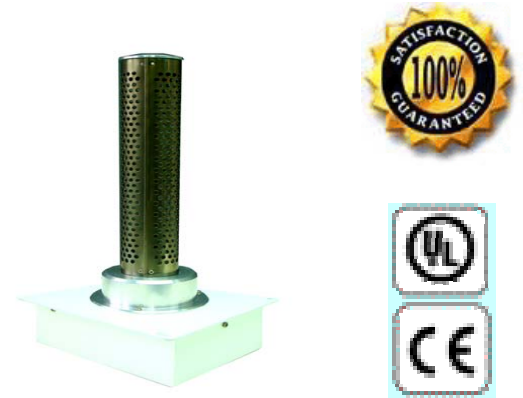




Theory by: Photo Catalytic Oxidation (PCO)

Feature:

- Unit mounted inside air duct, fan coil return and AHU.
- Sizes available are of 5, 9 and 14 inches length.
- Highly effective in removing VOC's, odor, dust particles bacteria and virus from passing air and inside air duct & AHU.
- Employs the most advanced nano-technology to coat TiO₂ on patented metallic surface (304 Stainless Steel) and UV lamp for outstanding (PCO) performance.
- No affect the pressure drop in existing HVAC system
- Free of maintenance. Washable design. Grade 304 Stainless Housing and PCO Probe, excellent durability.
- Long services life time and low operation cost
- UL and CE certified
- Lifetime Plasma Ions Generator Head (Never replace)
- Standard UVC Lamp. Options with UVA Lamp
- Tested by Hong Kong University of Science Technology
- Tested by LAWN – Registered IAQ CIB in Hong Kong



Induct, Fan Coil Return and AHU Type

“PhotoClean” is the newest and most scientifically advanced system in both electronics and ability to destroy bacteria and indoor air pollution. The purification science is created from Nano-Technology PCO which creates greater efficacy in killing and reducing bacteria, viruses, VOC's and other harmful airborne contaminants.

Effective to treat both Moving Air and Fixed Object

How does the “PhotoClean” PTU Work?

We are continually exposed to a growing number of health threatening pollutants that can be categorized into three groups: biological contaminants, toxic gases, and particulates. To deal with these hazards, **PhotoClean**[™] units combine powerful purification methods:

- Ultraviolet Germicidal Irradiation (UVGI) occurs when ambient air flows through our killing chamber and passes by our special ultraviolet lamp where it is exposed to intense levels of ultraviolet light that aides in the destruction of organic unfriendly particles.
- Powerful light wavelengths are generated that energize the gaseous contents of the passing air producing a purifying plasma that destroys bacteria, viruses, fungi, VOC's, and other organics as well as neutralizing unpleasant odors.
- Particulates such as dust and smoke are bombarded by photoelectrons to remove them from the air..

Photo Catalytic Oxidation

- (PCO) is an advanced process by which volatile organic compounds (VOC's), bacteria, mold and fungus are destroyed by incorporating photon and ultraviolet (UV) energy activating a catalyst (TiO₂) creating photo catalytic oxidation. PCO is produced by the air being exposed to photon light and passing through a catalyst comprised of specific nano sized mineral compounds. After the air's exposure to the lamp's energy in the PCO chamber, three specific free radicals are released which destroy the bio-aerosols (bacteria, molds, and fungus). During the process, hydrogen peroxide, hydroxyl radicals, and hydroxides are released back into the area where they attach themselves to specific organisms and kill them.

Theory by:

Ultraviolet Germicidal Irradiation (UVGI)

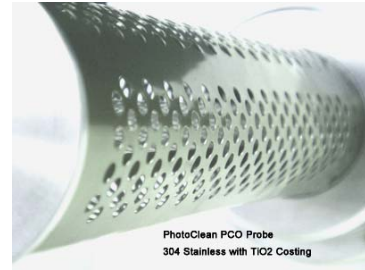
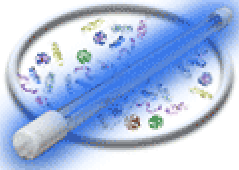
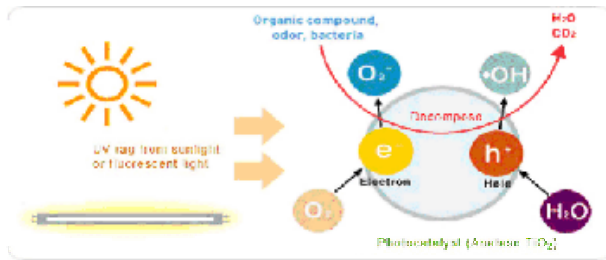


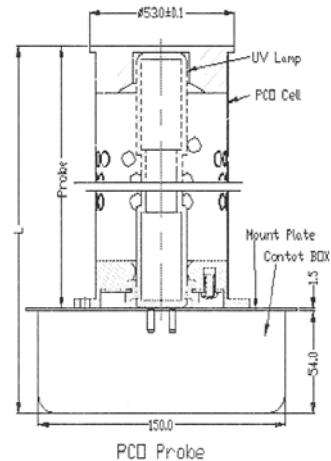
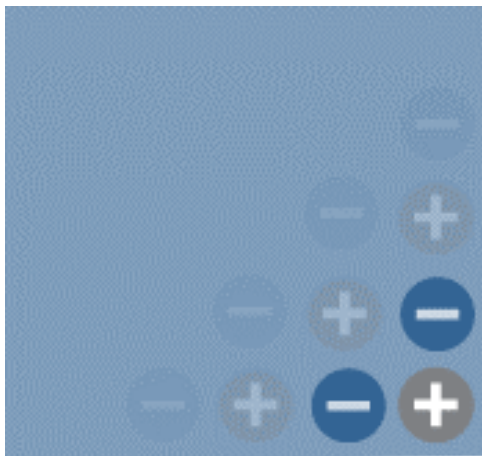
Photo Catalytic Oxidation (PCO)



Testing:

- Tested by HK University of Science Technology – Efficiency Test
- Tested by HK University of Science Technology – Coating Durability Test
- Tested by LAWN – Registered IAQ CIB in HK – Efficiency Test

Plasma Ion Generation



Benefit & Functions / 好處及功能

- **Particle Reduction / 去除粒狀污染物** - 塵埃, 二手煙, 霉孢子及過敏原等
- **Odor Neutralization / 去除異味**
- **Sterilization / 消毒殺菌**
- **VOC Control / 去除有機化學物**
- **Health Benefits / 提升個人整體健康**

PhotoClean PTU destroy up to 99.9% of the contaminants in HVAC system?

PhotoClean PTU are sized according to the application. Taking into account the duct size, air velocity, temperature, humidity, dosage request and the pollutant level. PhotoClean PTU can size the application in order to achieve 99.9% destruction at one time. If you have an application that requires our help in specifying a PhotoClean solution, just give us a call, or calculate DIY with our "PhotoClean - PTU Sizing Table" or "PhotoClean – PTU Fast Sizing Guide"

Solve the 4 main pollutants in indoor air

