Technical data

Brand	innoclean® (Trademarked in Australia)	innoclean® (Trademarked in Australia)
Series	innoScrubber	innoScrubber
Model	iS1007H13	iS1007PlasmaPCO
Fan Speed (m³/h)	2000	2000
Air flow (m³/h)	1000 / 1100 / 1300	1040 / 1170 / 1400
Coverage area	(with 8 ft. height)	(with 8 ft. height)
- 3 ACH	1709 ft²	1841 ft² *
- 5 ACH (with 8 ft. height)	1026 ft²	1105 ft² *
Max. Service Area	2500 ft² *	2700 ft² *
Purification process by		
G4 Pre filter (Replacement)	1 set	1 set
G4 Pre filter (Replacement)	1 pcs	1 pcs
H13 HEPA filter	1 pcs (Double W-sharp)	/
Photoplasma (PCO)	2 pcs (PTU102E)	2 pcs (PTU102F)
(equipped with UV-C lamp)	[Lamp Power: 15W]	[Lamp Power: 22W]
UV-C intensity @ 1m	43 μW/cm²	72 μW/cm²
Bipolar plasma Ionization	3 pcs (21" F tubes)	3 pcs (21" F tubes)
Timer	Yes (7 x 24 Timer setting)	Yes (7 x 24 Timer setting)
Speed control	Speed 1 / 2 / 3	Speed 1 / 2 / 3
Ion control	1 (50%) / 2 (75%) / 3 (100%)	1 (50%) / 2 (75%) / 3 (100%)
Voltage	AC 120V/230V 50/60Hz	AC 120V/230V 50/60Hz
Power	200 W	200 W
Casing Material	Metal	Metal
Placement	Freestanding	Freestanding
With lockable wheels	Yes	Yes
Air inlet	Bottom, lower left and right	Bottom, lower left and right
Air outlet	Top, upper left and right	Top, upper left and right
Weight	64 kg	60 kg
Dimension (L x D x H)	660 x 400 x 1760 mm	660 x 400 x 1760 mm
Operating temperature	+ 60°C to - 20°C	+ 60°C to - 20°C
Made in	China	China

* By the theory of air purification with active Plasma Ionization generation designed in IS1007H13 and PlasmaPCO, the actual effective service area would be over 50% the area where is requested 3 number of ACH as above table.
* Max. service area: air purifier is operating under full power of PTU and Bipolar plasma Ionization.
* Consumable parts replacement [The lifetime should be based on actual environment & conditions]:
  - G4 Pre-filter: 0.5 - 1 year
  - H13 HEPA filer: 1 - 2 years
  - UV lamp (PTU): 8,000 - 12,000 hrs (Performance Maintain at least 60% - 80%)
    25,000 hrs (Expected under normal use)
  - Bipolar plasma Ionization tube: 3 – 4 (30,000 hrs) (9,000 hrs. drop 20% - 30% Efficiency)
* The above specification may subject to be changed without previous notice.

HKAPC 香港空氣淨化器中心

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innoclean offers diversity solutions for indoor air quality

In the spirit of "low-call, pragmatic research and development", we continuously develop and introduce various types of air purification equipment to effectively improve different indoor air problems.

innoclean®
- www.innoclean.com -

The information may subject to be changed without previous notice.
For more detail: www.hkapc.org

INDOOR AIR QUALITY SOLUTION ARCHITECT

innoclean®

innoScrubber iS1007 Series
iS1007H13 • iS1007PlasmaPCO

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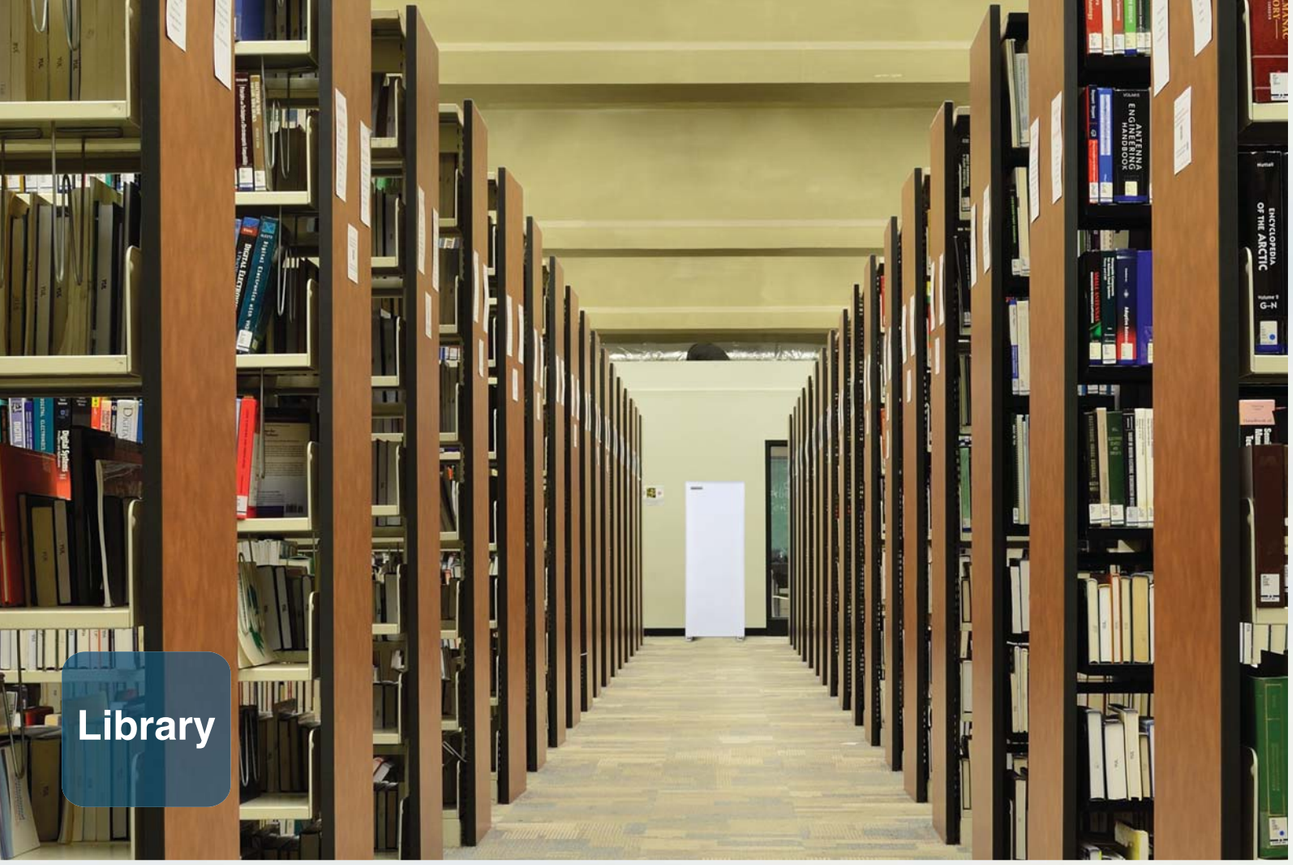


Reunion is **NOT** taken for granted. Cherish the moment

The invisible air pollutants including bacteria, virus, fine dust, TVOC and odor are in everywhere. Especially, there are densely populated place at risk such as shopping malls, schools, hospitals, restaurants and public leisure places. It is good for germ speared. Shall we turn a blind eye or live with germ together?

The **innoclean innoScrubber iS1007 series (iS1007H13 & iS1007PlasmaPCO)** is a unit of mobile filtration and decontamination, with a bipolar Ionization and a variety of kinds air purification technologies for purifying and disinfecting the air. Ideal for environments for production, densely populated place and preserving where it is necessary to constantly eliminate microbial contamination of air and surfaces. It is easy to operation and maintain, requiring no installation (just connect the power) and further operation. It is great choice for taking precautions.

Focus on solving diverse indoor air quality issues, the **innoclean innoScrubber iS1007 series** is more flexible. It could be equipped different filtration configuration to solve the core issues.

Features of innoScrubber iS1007 series

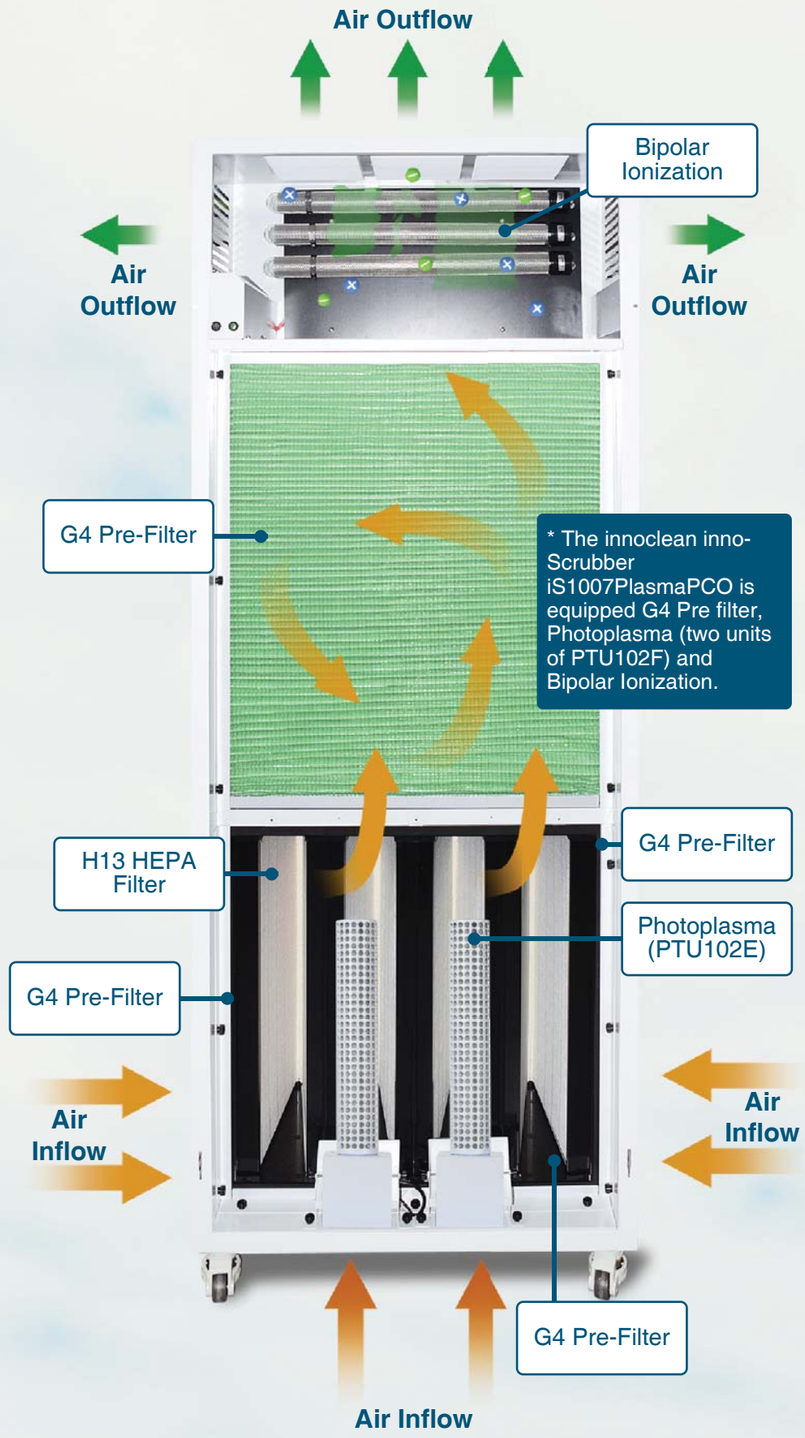
- Effective to remove fine dust, bacteria, chemical gas and odor
- Avoid the accumulation of pollutants indoors such as TVOC and particles
- Different models deal diversity pollutants
- High Purification Efficiency - The independent and authoristy test reports prove it is effective to kill bacteria, virus and chemical gas such as H1N1, EV71, Amonia, TVOC and Escherichia coli, etc.
- The average efficient of the True Hospital Grade H13 HEPA filter is at least 99.95% to remove 0.3um particles, airborne and bacteria. (Be applicable for iS1007H13)
- The True Hospital Grade H13 HEPA filter adopts double W-sharp design and 8 sheets in total. It is more durable and more large contact area which greatly increases the dust holding capacity and effectively extends the life of ther filter element. (Be applicable for iS1007H13)
- 24 365/7 internal continuously and non-stop air purification
- The effective service area is up to 2,000 ft², suitable for large area
- Pursuing perfection, using photo plasma with bipolar plasma to improve purification efficiency and more stability
- To adopt both active (Photo Plasma and Bipolar Plasma) and passive (H13 HEPA Filter, Ultraviolet (UV-C) Lamp and Photo Catalytic) air purification mode, it improves the permeability of purification
- The air flow design and direction is more effectiveness, natural and evenly distributed
- Metal body is more durable and rigid
- Equipped with lockable wheels, more convenience
- The control panel can be locked to avoid tampering with settings
- Many independent and authority testing reports and excellent feedback from existing customers
- No installation required, just connect power cord to the unit and power supply
- Easy to use, just press power button, twist speed control and ion control
- Easy for maintenance, replace and clean in regular

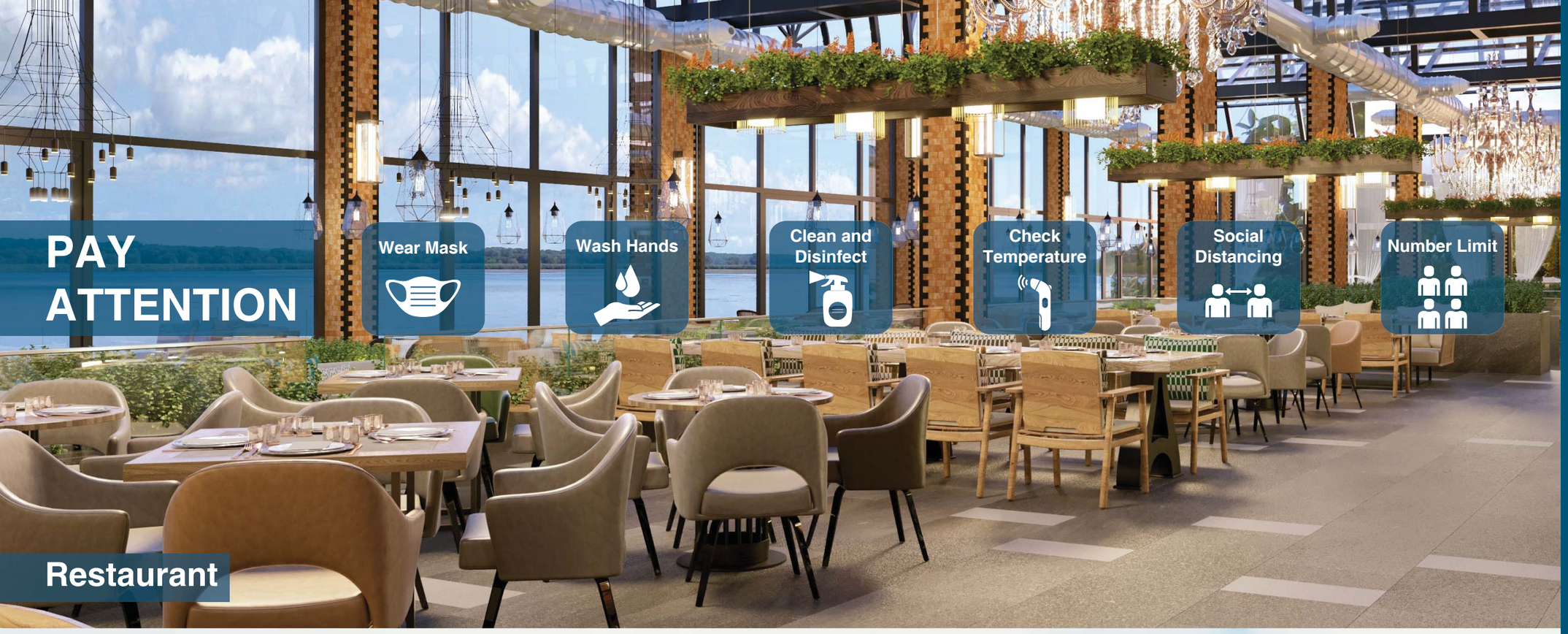
Integrated a variety of air purification **technologies, repel** most kinds of indoor air pollution

innoclean innoScrubber iS1007 series adopts the advanced **bipolar Ionization, H13 HEPA filter and Photoplasma** technologies for purifying and disinfecting the air. There are two models of **iS1007 series*** mobile filtration and decontamination are equipped different kinds of filtration process. These filtration processes are designed for solving variety indoor air pollutants.

* Each model of iS1007 series (iS1007H13 & iS1007PlasmaPCO) is equipped different kinds of air purification technologies. The detail is stated in product specification and welcome to consult our Indoor Air Quality Consultant.

The layout of innoclean innoScrubber iS1007H13





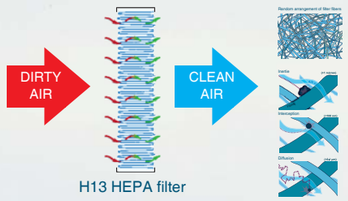
Nice place for gathering
But **virus break down** our **social life**

Due to epidemic (eg. The world is suffered by COVID-19), public health, hygiene and infectious disease control become popular issue again. No doubtful, the epidemic affect our mind and living which we think it is certain and must have in the past. Changing and improve our hygiene and virus prevention producers are a must, but how to do it?

The innoclean innoScrubber iS1007 series is nice choice for against infectious disease and improve environment hygiene where is large and High-risk environment. It is effective to protect our health. At the same time, iS1007 series mobile air purification and disinfection unit is daily public health protection is capacity for solving common indoor air pollutants such as pollen, odor, TVOC and smoking smell, etc.

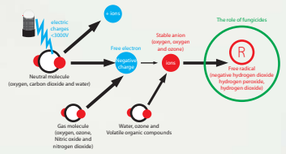
The **innoclean innoScrubber iS1007 series mobile air purification and disinfection unit** is integrated diversity purification process.

H13 HEPA filter (True Hospital Grade)



The innoclean innoScrubber iS1007H13 adopts Double W-sharp (8 sheets) design H13 True Hospital Grade HEPA filter. H13 True Hospital Grade HEPA filter is widely used in hospital and medical industry. It is effective to remove 0.3μm particles, airborne and bacteria. According to EN 1822 standard, the requirement of H13 HEPA filter's average efficient is at least 99.95% (most penetrating particle size, MPPS). Compare with Double W-sharp and traditional design, Double W-sharp HEPA filter is 8 sheets in total is more durable and more contact area which greatly increases the dust holding capacity and effectively extends the life of the filter element.

Bipolar plasma



In nature, ions exist in different sizes are molecules or atoms that contain electric charges. Small ions last only 30 to 300 seconds before leaving the charge, but they are very active. In an ideal "fresh air" environment, such as a mountaintop, the small ion density ranges from 900 to 1,100 negative ions and 1,000 to 1,200 positive ions per cubic centimeter (ion/cm3). However, within cities and buildings, the level of ions drops by 80% to 95%, which is barely detectable in tight spaces. As the ion density decreases, the corresponding air quality also decreases. Bipolar plasma technology is used to increase the amount of charged oxygen ions, and the air quality is increased to the level of "fresh air" to achieve an oxygen-rich environment. Also the plasma ion effectively kills bacterial viruses, decomposes chemicals such as formaldehyde, TVOC, and removes odors.

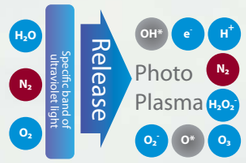
Photo catalytic

Photo Catalytic Oxidation (PCO) is an advanced process by which volatile organic compounds (VOC's), bacteria, mold and fungus are destroyed by incorporating photon photon and ultraviolet (UV) energy activating a catalyst (TiO^2) creating photo catalytic oxidation. During process, 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.

Ultraviolet Lamp

The use of ultraviolet light to kill bacteria has a wide range of applications. The power is evaluated by UV intensity.

PhotoPlasma



Ultraviolet light in a specific wavelength band illuminates naturally occurring molecules such as oxygen and water vapor in the air to produce unique PhotoPlasma including various reactive oxygen species, free radicals and electrons. PhotoPlasma actively kills harmful microorganisms such as bacteria, viruses, molds, fungi and other harmful microorganisms in the air, thereby treating them at the source and preventing diseases caused by these harmful microorganisms. As for harmful gases such as volatile organic compounds, formaldehyde, benzene, ammonia and hydrogen sulfide in the air, it rapidly destroys its chemical structure through a series of chemical reactions, decomposes cal reactions, decomposes it, and finally converts it into carbon dioxide and water molecules. It removes odors caused by microorganisms, chemicals, smoke and garbage.

Data shows everything

Some independence and authority scientific results verified the efficient of innoclean bipolar plasma, photoplasma and ultraviolet lamp

H1N1
99.9%

EV71
99.9%

Escherichia coli
> 99.99%

Staphylococcus albus
99.87%

Aspergillus niger
99.9%

Natural bacteria in the air
91.58%

TVOC
91.1%

Formaldehyde
82.4%

Hydrogen sulfide
85.2%

Benzene
81.8%

Ammonia
89.6%

Staphylococcus aureus
90.48%

Depend on unique purpose and location, there are two models of the innoclean innoScrubber iS1007 series for selection. The innoclean innoScrubber iS1007H13 mobile air purification and disinfection unit is equipped True Hospital Grade H13 HEPA filter, bipolar plasma and photo plasma. The superior unit is focused on solve where is a requirement for dust level, pollen, allergy, bacteria, virus, chemical gas and odor, etc.

The iS1007H13 is an outstanding solution for overall and foremost protection strategy in at risky large environment.

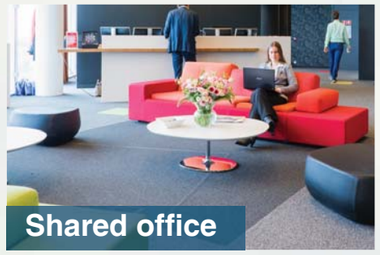
CHOOSE PREFERABLE MODEL for your own location

Freight House

Shop

More natural, more environmental, continue to enjoy most primitive air. The innoclean innoScrubber iS1007PlasmaPCO is great cost-efficient air purification unit.

The iS1007PlasmaPCO is proper location where is indoor air pollutants including bacteria, virus, fine dust, chemical (such as TVOC, Ammoria and Benzene, etc) and bad smell, etc. Its mobile air treatment and decontamination element is an ideal hygiene solution to control infectious disease and cross infection.



Don't hesitate TAKE ACTION for ourselves

The **innoclean innoScrubber iS1007 series mobile air purification and sanitation unit** is appropriate for diverse environments. The below is common references.

Lobby

Whether it is the building lobby or the elevator lobby, we must pass through to work. The **innoclean innoScrubber iS1007 series** is ideal precaution for reducing risk level of hygiene and cross contamination in crowded and most frequently lobby. No installation is required for the **iS1007 series**. It is more flexible for property management.

Prevention is better than cure.
The innoclean innoScrubber iS1007 series is nice and cost-saving selection for precaution.

Supermarket / Market

Shopping can cure all diseases. We always stay in supermarkets, wet markets and shopping mall and outlets. How to avoid bacteria and virus spread to protect customers and staff health? The **innoclean innoScrubber iS1007 series** adopts bipolar plasma and photo plasma which is effective to release high density of plasma ion to kill harmful microorganisms and destroy cell.

Shopping mall

Shopping mall is one of good place for leisure. There are often new outlook, season and theme decoration attract visitors. During and after decoration, there are heavily construction chemical gas such as TVOC and formaldehyde, and odor. These pollutants will harm our health and leave poor impression to visitors. The **innoclean innoScrubber iS1007 series** adopt most environmental friendly is effective to destroy its chemical structure through a series of chemical reactions, decomposes cal reactions, decomposes it, and finally converts it into carbon dioxide and water molecules.

Restaurant

Restaurant is also one of our frequent visits. The hygiene issue is more important. Mobile and no installation required is must. The **innoclean innoScrubber iS1007 series** is not only reduce fine dust, but also is easy and effective to control infectious disease in crowded and busy area.

How many units we need

No doubt, the quantity we require that is a big and common questions. Besides the space of location, the number of air change per hour (ACH) should be considered. The following table is simple and quickly instruction for reference.

For more detail and questions, please feel free to contact us (Tel: (852) 3421 0167 or email: info@hkapc.org).

iS1007H13 supply air flow rate with 2 set pre-filter and 1 pcs of HEPA filter installed

- L: 1000 m³/h
- M: 1100 m³/h
- H: 1300 m³/h

Calculation of ACH (nos. of air change)

Service area with nos. of air change ACH at speed "H"
* Base on normally 100 ft² with 8 ft. height = 3.25m x 3.25m x 2.4m
* Room volume: 25.35 m³

With ACH	3	4	5	6
Area (ft²)	1709	1282	1026	855

iS1007PlasmaPCO supply air flow rate with 2 set pre-filter installed

- L: 1040 m³/h
- M: 1170 m³/h
- H: 1400 m³/h

Calculation of ACH (nos. of air change)

Service area with nos. of air change ACH at speed "H"
* Base on normally 100 ft² with 8 ft. height = 3.25m x 3.25m x 2.4m
* Room volume: 25.35 m³

With ACH	3	4	5	6
Area (ft²)	1841	1381	1105	920

* By the theory of air purification with active Plasma Ionization generation designed in IS1007H13 and PlasmaPCO, the actual effective service area would be over 50% the area where is requested 3 number of ACH as above table.