

# SAME BUILDING DIFFERENT QUALITY

innoclean™  
OceanClean  
Fresh Air Treatment Unit (FATU)

mashroom6

innoclean OceanClean fresh air treatment unit (FATU) is installed.

No fresh air treatment unit (FATU) is installed.

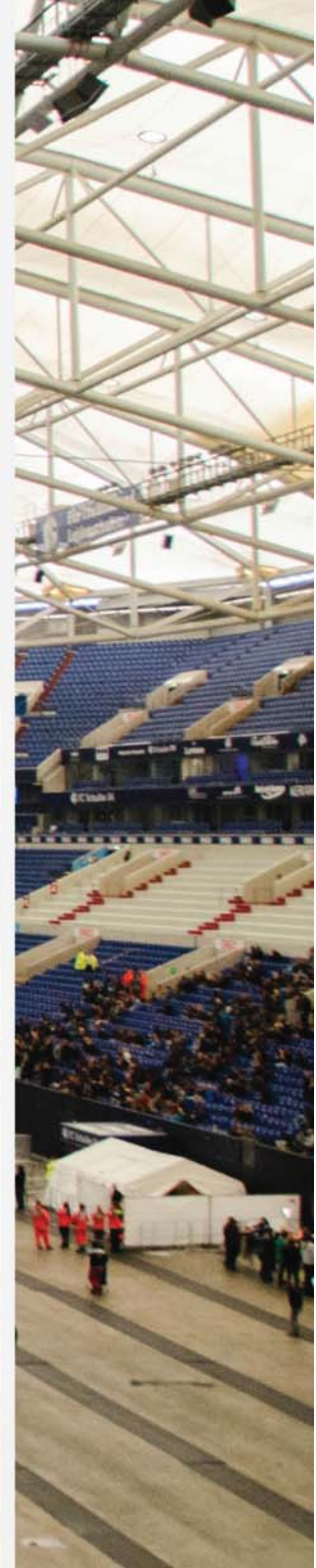
Radon  
HCHO  
TVOC  
CO2  
Benzene  
Always sick leave  
Oxygen Deficiency  
Low productivity  
Tired





## Poor air quality Low productivity Increase sick leave

Poor indoor air quality can negatively affect our health and longevity. Asbestos, CO2 and chemical are prime examples of the devastating effects that poor workplace air quality can have on individuals. As a result of indoor air is not circulated, the pollutants (such as TVOC, HCHO, CO2 and radon, etc) are constant accumulation. Ocean-Clean fresh air treatment unit (FATU) is effective to introduce fresh air from outside. It can prevent indoor oxygen deficiency and reduce CO2 level. Also, it will increase the positive pressure in room to prevent air pollutants entry inside from outside. OceanClean fresh air treatment unit (FATU) is effective to achieve internal continuously air purification.



## Deal with stuffy and air does not circulate inside a room “Eliminate Dead Air Zone”

Many colleagues complain it's airless here or office is very stuffy. They always feel tired and quite difficulty breathing. After lunch, food smell filled indoors. Poor indoor air quality can negatively affect productivity, employees' health and longevity. Ventilation ( / air circulation) and insufficient fresh air are critical issues. Poor air circulation and insufficient fresh air may cause the high level of CO2 and accumulated air pollutants in office. However, some commercial buildings are not allowed to open the window such as glass curtain wall. Natural ventilation is impossible. Installing innolcean **OceanClean fresh air treatment unit (FATU)** is effective to introduce fresh air, improve indoor air circulation and avoid the accumulation of pollutants indoors.

through the fan and air ducts, etc. Different from the market, **innolcean OceanClean fresh air treatment unit (FATU)** is equipped complete air purification process to remove fine dust particle, bacteria, pollen, odor and bad smell, etc. These process avoids outdoor air pollutants to enter indoors.

### Features of OceanClean Fresh Air Treatment Unit (FATU)

- Introducing fresh air
- Improve indoor air re-circulation
- Avoid the accumulation of pollutants indoors such as CO2 and Radon etc...
- Increase indoor oxygen content & reduce CO2
- High Purification Efficiency
- Internal continuously air purification
- Increase the positive pressure in room to prevent air pollutant entry the room from outside
- Purifying air from outdoor to indoor
- Testing report and excellent feedback
- Lower the operating cost
- Easy installation and maintenance
- Easy to connect with air duct to create positive or negative pressure

“Why turn on our existed fresh air treatment unit (FATU), unpleasant smell will pouring into the room?”

In fact, many fresh air supply fans or PAU are not including air purification process. Without air purifying capacity, it causes outdoor air pollutants to enter indoors

### OceanClean 600 series coverage area

#### internal air recirculate purification

500 - 800 ft<sup>2</sup> (3 ACH)  
300 - 500 ft<sup>2</sup> (5 ACH)

#### fresh air intake purification direct supply Up to 3,000 ft<sup>2</sup>

air purification of exhaust air to outside  
< 500 ft<sup>2</sup> (5 ACH)  
< 800 ft<sup>2</sup> (3 ACH)



## Applications

A place where air does not circulate, offices, high concentration CO2 area, classrooms, kitchen, restaurants, living room, day care centers, reception hall, conference rooms, hotel room, studios, refuse collection plant, commercial building, factory and shopping mall, etc.





## Eliminate harmful chemicals and annoying odors

In fact, many property management companies always face different complains. These complains may about odor and harmful gas which are caused from gym room, painting activities, decoration and car repair, even restaurants' cooking smell.

To solve above problems, **OceanClean Odor600** is equipped **PhotoTroph Honeycomb Carbon Deodorize Filter**. It is provided with high adsorptive capacity (High One Pass Removal Efficiency), large surface area, kinetics and ultra-low pressure drop.

Adopt the macromolecule material make the good active carbon powder adhere to the honeycomb base ceramic material, which having the characteristics of good ventilation and low pressure drop, and it can be processed then become the antiseptis and deodorization product. Basically, **PhotoTroph Honeycomb Carbon Deodorize Filter** is effective to purifier almost kinds of IAQ concerned common odor (eg. methyl mercaptan and

trimethylamine, etc) and harmful pollutant gas (eg. TVOC, HCHO, NH3, H2S and SO2, etc). It's widely used in the air conditioner, air purifier and HVAC system.

At the same time, **OceanClean Odor600** is equipped UV-C and bipolar plasma to refresh air, kill bacteria and decomposes chemicals, etc.

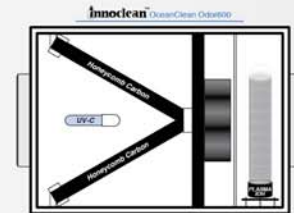


purification principle

Honeycomb Carbon

UV lamp

plasma ion



## Refresh air and keep to breathe pure air

Different places will focus on different indoor air problems, and different models (**innoclean OceanClean Fresh600 / Odor600**) can more effectively solve different needs. **OceanClean Fresh600** is designed for general environment such as office, school, public area and clinic, etc. Besides introducing fresh air from outside, **OceanClean Fresh600** could improve internal air recirculate purification.

What is the **innoclean OceanClean Fresh600** principle?

### HEPA filter

HEPA filters have been widely used in medical and domestic air purifier to effectively intercept suspended particles in the air. The most common is dust, mites, pollen and allergens are very troublesome for us, especially nasal sensitivity and sensitive people.

### Ultraviolet Lamp

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

### Bipolar plasma



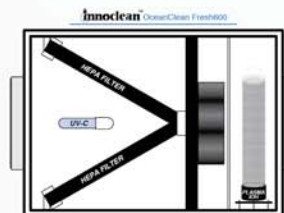
In nature, ions exist in different sizes are molecules or atoms that contain electric charges. Small ions last only 30 to 300 seconds before leaving the charge, but they are very active. In an ideal "fresh air" environment, such as a mountaintop, the small ion density ranges from 900 to 1,100 negative ions and 1,000 to 1,200 positive ions per cubic centimeter (ion/cm<sup>3</sup>). 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

purification principle

HEPA filter

UV lamp

plasma ion





**POSITIVE  
PRESSURE**

**NEGATIVE  
PRESSURE**

## What are the benefits of positive or negative pressure?

Aim to improve internal air re-circulation and solve lacking of fresh air (or oxygen deficiency), installing **OceanClean Fresh600** is effective to create **positive pressure**. It can prevent air pollutant entry inside from outside (Reducing pollutants from outside). After introducing fresh air, it could reduce the level of indoor CO2 and increase productivity. Too much CO2 affects productivity (employee always feel tired.). **OceanClean Fresh600** is equipped purification capacity. It achieves internal continuously air purification.

In fact, production, restaurants, garbage, industry and recycling, etc. cause heavily odor and chemical pollutant. These pollutants should not directly exhaust air to outside as it will damage outdoor environment or affect neighboring. Deal with these issues, installing **OceanClean Odor600** purify polluted air. After filtering the polluted air, it is exhausted air to outside. In addition, **OceanClean Odor600** created **negative pressure** to prevent cross-contaminations or polluted air from room to outside (Polluted air could not escape from the room).



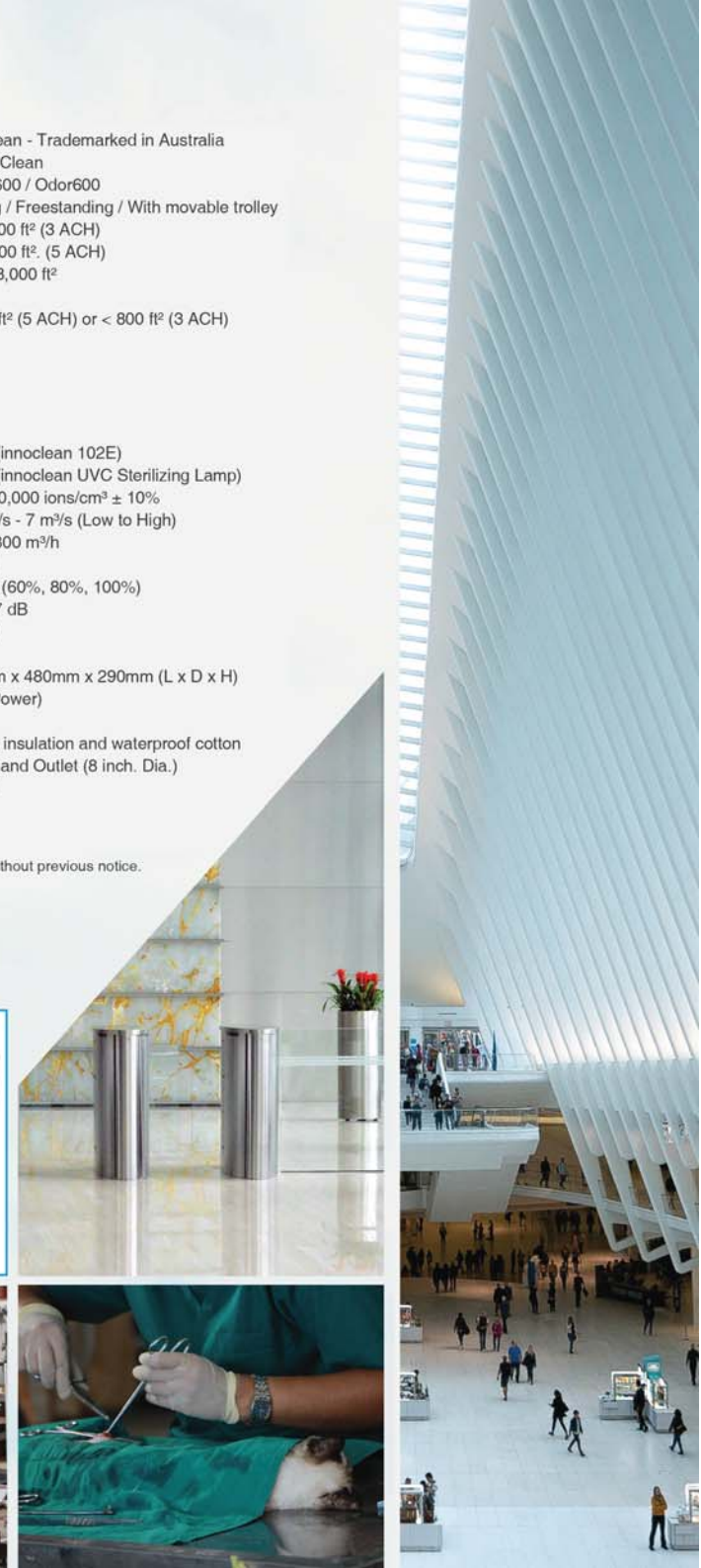
## Technical data

Brand	innoclean - Trademarked in Australia
Series	OceanClean
Model	Fresh600 / Odor600
Placement	Ceiling / Freestanding / With movable trolley
For internal air recirculate purification: Coverage area	500-800 ft <sup>2</sup> (3 ACH)
For fresh air intake purification direct supply: Covering Area	300 -500 ft <sup>2</sup> . (5 ACH)
For air purification of exhaust air to outside: Covering area	Up to 3,000 ft <sup>2</sup>
	< 500 ft <sup>2</sup> (5 ACH) or < 800 ft <sup>2</sup> (3 ACH)
Purification process by HEPA filter (Fresh600)	2 pcs
Honeycomb carbon (Odor600)	2 pcs
Ionization tube (both models)	1 pcs (innoclean 102E)
UV lamp (both models)	1 pcs (innoclean UVC Sterilizing Lamp)
Ions generation	> 8,000,000 ions/cm <sup>3</sup> ± 10%
Air speed	4.4 m <sup>3</sup> /s - 7 m <sup>3</sup> /s (Low to High)
Air flow	500 - 800 m <sup>3</sup> /h
Speed level	2 - 10
ion level (adjustable)	1, 2, 3 (60%, 80%, 100%)
Noise	50 - 67 dB
Power	175 W
Weight	18 kg
Dimension	740mm x 480mm x 290mm (L x D x H)
LED indication lamp	Yes (Power)
Remote controller	No
Outer colton	Sound insulation and waterproof cotton
Connect with air duct	Intake and Outlet (8 inch. Dia.)
Made in	China



The above specification may subject to be changed without previous notice.  
For more detail: [www.hkcapc.org](http://www.hkcapc.org)

## Structure





## Space limitation but not limited fresh air you breathe

Certainly, land issue is important consideration. People are willing to seek indoor air quality solution but they may worry about land issue such small space, the size of machine and installation limitation, etc. These factors can be prohibitive. Small sized **innoclean OceanClean 300 series (Fresh300 / Fresh300 Plus / Odor300 / Odor300 Plus)** is designed for specific environment such as not enough space, installation limitation and not allowing freestanding machine, etc.

### How to choose the model that suits you?

Aim at more flexible and solving the core problem, there are four models for **innoclean OceanClean 300 series - Fresh300 / Fresh300 Plus / Odor300 / Odor300 Plus.**

#### Fresh300

Due to space limitation, it is not allow install or place larger sized machine. **Fresh300** is designed for improve general IAQ, internal continuously air purification and solving insufficient fresh air. Installed **Fresh300** in ceiling is not occupy ground space and affect interior design.

#### Fresh300 Plus

Sometimes, the outdoor is heavily pollutants such as near garbage room, construction site and highways, etc. These factors will cause high level of dust and bacteria. At that time, **Fresh300 Plus** is ideal solution.

#### Odor300

Worry about odor pollutants from outside to inside. **Odor300** is effective to deal with odor, bacteria and chemical pollution sources where are from outdoor. These odor caused by cigarette smell from smokers, cooking fumes and garbage, etc.

#### Odor300 Plus

Outdoor environment is hard to control. **Odor300 Plus** focuses on removing source of heavily pollutions including bacteria, mold, odor and chemical, etc. Construction site, cooking fumes, welding, exterior wall decoration, etc are potential source of pollutions.

Since the air problems in different environments are slightly different, please feel free to contact us if you have any questions. (Tel: (852) 3421 0167 or email: info@hkpc.org)

#### coverage area

internal air recirculate purification  
250 - 400 ft<sup>2</sup> (3 ACH)  
150 - 250 ft<sup>2</sup> (5 ACH)

fresh air intake purification direct supply  
Up to 1,500 ft<sup>2</sup>

air purification of exhaust air to outside  
< 250 ft<sup>2</sup> (5 ACH)  
< 400 ft<sup>2</sup> (3 ACH)



## Technical data

Brand  
Series  
Model

#### Placement

For internal air recirculate purification: Coverage area  
For fresh air intake purification direct supply: Covering Area  
For air purification of exhaust air to outside: Covering area  
Installation

#### Purification process by

HEPA with carbon filter (Fresh300)  
Honeycomb Carbon (Odor300)  
Ionization tube (Fresh300 / Odor300)  
Ionization tube (Fresh300 Plus / Odor300 Plus)  
Ions Generation  
Air flow  
Speed level – for air duct connect  
Speed level – without air duct connect  
ion level (Adjustable)  
Noise  
Power  
Weight  
Dimension  
LED Indication Lamp  
Remote Controller  
Connect with air duct  
Made in

innoclean - Trademarked in Australia  
OceanClean  
Fresh300 / Fresh300 Plus /  
Odor300 / Odor300 Plus  
Ceiling / Freestanding / With movable trolley  
250 - 400 ft<sup>2</sup> (3 ACH)  
150 - 250 ft<sup>2</sup> (5 ACH)  
Up to 1,500 ft<sup>2</sup>  
< 250 ft<sup>2</sup> (5 ACH) or  
< 400 ft<sup>2</sup> (3 ACH)  
Ceiling connect with air duct or ceiling with original air flow adjustable air grill

1 pcs  
1 pcs.  
1 pcs (innoclean 102D)  
2 pcs (innoclean 102D)  
> 6,000,000 ions/cm<sup>3</sup> ± 10%  
200 - 300 m<sup>3</sup>/h 150Pa  
One  
Variable speed adjust by the In / Out air grill  
1, 2, 3 (60%, 80%, 100%)  
< 50 dB  
80W  
15 kg  
530mm x 370mm x 230mm (L x W x H)  
Yes  
No  
Intake and Outlet (160 mm Dia.)  
China



Note: For the case with stronger odor, chemical, bacteria etc.... please select the Fresh300 Plus or Odor300Plus with 2 nos. of plasma ionization tube.

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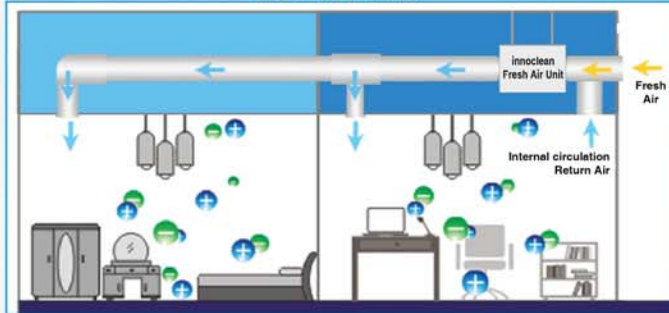
## Flexible installation Suitable for different environments

When people consider to install fresh air treatment unit, they will confuse about how to install and how much space is occupied. **innoclean OceanClean Fresh Air Treat-**

**ment Unit (FATU) series** are available for ceiling (or hidden installation) or with movable trolley.

There is installation diagram at below. The installation detail should be based on the actual environment. (for reference only)

indoor installation



For equipped movable wheel, it is more flexible and easy to move the **OceanClean Fresh Air Treatment Unit (FATU) series** to anywhere and anytime. It can save installation cost and avoid relocation problem in future.

Sometime, property management companies need to solve air pollutants are caused from internal decoration, sudden pollutants from outside and indoor oxygen deficiency, etc. issues. At that time, property management could free to move **OceanClean 600 & 300 series** to relevant location to solve these problems immediately.

odor and lacking fresh air problems which are caused from outside irregular. These odor and pollutants affect their employees and customers' health and shop image. As for these pollutants especially sewer odor are occurred irregular and affected places are difficult to estimate, fixed installation lacks flexible.

Installation limitation, without installation permit, unstable potential pollutants sources, temporary purpose, and relocation frequently such as Pop-up store and construction sites, etc. are not allowed to fixed installation.

Some retail shops (including fashion, accessories, book stores and luxury shop) may face food wastes' smell, cooking

For more detail or question, please don't hesitate to contact us. (Tel: 852-3421 0167 / email: info@hkpcp.org)

Construction site for introducing fresh air



## User-friendly design is more convenient

Aim at more user-friendly, innoclean **OceanClean Fresh Air Treatment Unit (FATU) series** are able to connect with air duct. **OceanClean 300 series** could be equipped exclusive air grill. The air grill is easy to adjust air flow without using any tool.

Maintenance work is an important factor for considering. **OceanClean Fresh Air Treatment Unit (FATU) series** are easy to maintenance. Just open the cover panel and replace the filter, UV and plasma tube. No tool is required.

OceanClean 300 series

Exclusive air grill  
Free to adjust the air flow without using any tool.



# Different locations Same indoor air quality

Why do you need different series and models to choose from?

Even though two different locations face same pollutant problem, it don't mean the same model should be equipped in these two locations. To choose **OceanClean fresh air treatment unit (FATU)**, pollutant is one of the considerations. Other considerations include but not limited to fresh air supply requirement, level of pollutants, installation limitation, population density, space available for installation, service area, construction design and area, etc.

innoclean designs two series of **Ocean-Clean fresh air treatment unit (FATU) [300 & 600 series]** and several models (**Fresh600 / Odor600 / Fresh300 / Fresh300 Plus / Odor300 / Odor300 Plus**). It is more flexible and more emphasis to solve relevant pollutants and satisfy actual environment's needs.



The above cases focus on cooking fume odor. Two restaurants adopted **Ocean-Clean Odor600 and Odor300 Plus fresh air treatment units (FATU)** separately to filter polluted air and exhaust air to outside. The type of pollutant and purpose are the same. Due to their own installation limitation, level of pollution and space, the same model should not install in these restaurants.

If you have any question, please don't hesitate to contact us. (Tel: 852-34210167 or email to [info@hkapc.org](mailto:info@hkapc.org))

*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.