



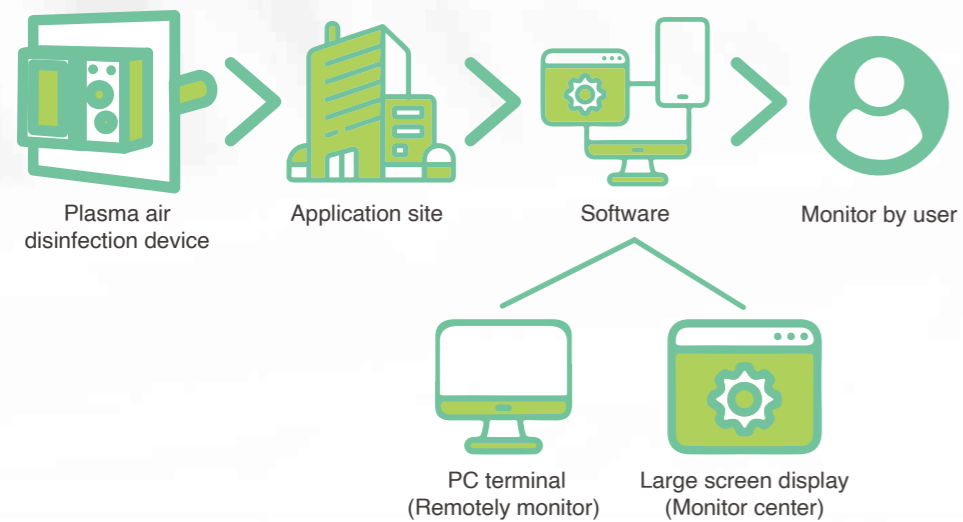
innoclean
offers diversity
solutions for
indoor air quality

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.

Relationship between green buildings and air quality

The air of Green building is to create a healthy living environment and reduce adverse environmental impacts. Indoor air quality should not be overlooked. Poor air quality will lead to a variety of health issues. One of the components of green building is a mechanical ventilation system with advanced filters that remove indoor pollutants and supply fresh clean air. To create a healthier environment for their users.

Intelligent system



*** CCMS or BMS systems are excluded**

innocleanTM
- www.innoclean.com -



Bipolar Ionization
<https://innoclean.com/products-bi-polar.html>



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

innocleanTM
Bipolar Ionization Air Purification System Series

**ENJOY FRESH AIR
INTELLIGENTLY**



• Bipolar Ionization
Air Purification System Series



Tel: (852) 34210167 | Fax: (852) 30054302 | E-mail: info@hkpc.org

Application

Bipolar Ionization Air Purification System Series is designed for different environments. It can be used in industrial Area, medical sector, business areas, public Places, formaldehyde volatile organic compounds VOCs, strong odors and so on. Here are some examples of applications:



Business Areas

Working in spaces with good air quality ensures better concentration and increased productivity. But in commercial buildings, poor ventilation are common situation. Having a Bipolar Ionization Air Purification System in commercial buildings can ensure that employees enjoy healthy air quality.



Medical Sector

Good air quality is essential where people are receiving medical treatment. The chance of cross-transmission can be reduced by using Bipolar Ionization Air Purification System. In addition, a clean working environment can ensure that employees are better protected and work well.



Waste Management Facilities

Waste Management Facilities are an essential part of the community, to protect the staff, residents and the entire environment. The government has strict requirements for its mechanical ventilation system and air purification facilities.



Landfills



Incineration Plant



Food waste collection facilities



Educational institution

Providing good air quality to users is fundamental to public spaces. Bipolar Ionization Air Purification System are especially important in places where central air conditioning is used. In addition, air quality has a direct impact on health. People who stay in the same place for a long time should pay more attention to it, such as teachers and students in schools.



Sports Facilities

Exercising in clean air is easier and more pleasant. To protect all users, especially children, Bipolar Ionization Air Purification System that can deodorize, neutralize odors, and kill bacteria and mildew is very important. To lower the air pollution, offering a safe environment to all users.



Construction Area

The main cause of air pollution caused by construction projects is the generation of dust particles. It will affect the air quality and the health of the public and workers. Bipolar Ionization Air Purification System can help reduce the damage caused by dust particles and harmful gases.



Recreational and Cultural Facilities

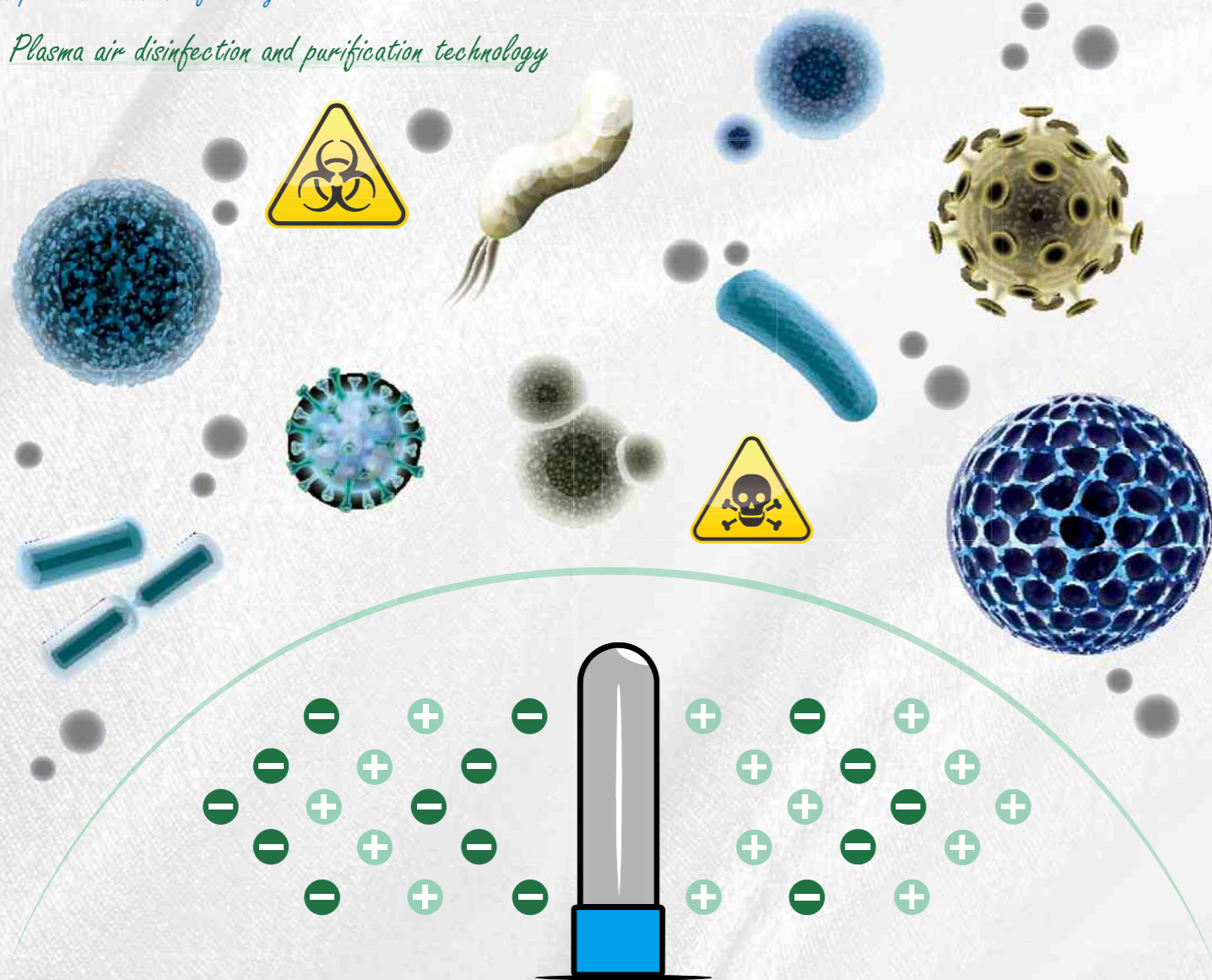
There are various recreational and cultural facilities. Such as libraries, museums, parks, and performance venues. Due to the many visitors in indoor venues, air circulation is very important. Bipolar Ionization Air Purification System are important to provide visitors with a pleasant experience.



Food & Beverage industry

High indoor air quality is a key component to successful food and beverage production and processing. Bipolar Ionization Air Purification System can reduce airborne contamination of consumable goods and manage smells throughout the manufacturing process.

Plasma air disinfection and purification technology



Let the science data to prove effectiveness.

	HCoV-229E coronavirus	99.99%	
H1N1	EV71	Escherichia coli	Staphylococcus albus
99.9%	99.9%	> 99.99%	99.87%
Aspergillus niger	Natural bacteria in the air	Formaldehyde	TVOC
99.9%	91.58%	82.4%	91.1%
Hydrogen sulfide	Benzene	Ammonia	Staphylococcus aureus
85.2%	81.8%	89.6%	90.48%

Bipolar Ionization Air Purification System Series is effective to deal with different air pollutants (for example bacteria, viruses, dust, odor, benzene, formaldehyde and TVOC, etc).

Product Application

Project Location: AAHK



Equipment Installed Model 202F & 402E & 402F

E & M Consultancy & improved Pollution AAHK

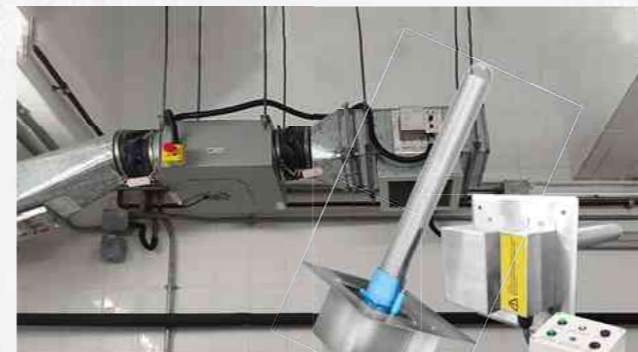
Project Location: LA MONTAGNE



Equipment Installed Model 202E & 502F

E & M Consultancy & improved Pollution (MEINHARDT) 嘉里建設、信和置業 & 太古地產

Project Location: Two Sky Parc



Equipment Installed Model 102D

E & M Consultancy & improved Pollution Garbage room exhaust - Odor problem

Project Location: City University



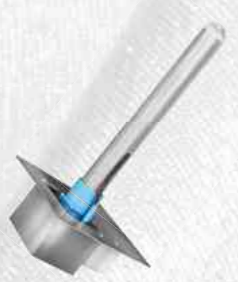
Equipment Installed Model 402F

E & M Consultancy & improved Pollution City University

User Company

The Hong Kong Jockey Club	將軍澳醫院	O · PARK
Data Center	小欖綜合康復服務大樓	EMSD Headquarters
English Schools Foundation	靈實醫院	Hong Kong Disneyland Resort
Central Plaza	明愛醫院	Mandarin Oriental Hotel
FUBON Bank	Prince of Wales Hospital	日出康城
奇華生產中心第二期	青衣普通科門診	Pacific Place
九龍貿易中心	中環廣場	Lincoln House, Taikoo Place
世貿中心	Transitional Housing in Yuen Long	Pacific Place
ATL Logistics Centre	Princess Margaret Hospital	Regency Centre 1&2
The Gateway (Harbour City)	荃灣區青少年發展協會	Peak Reinsurance
Kingston International Centre	伍若瑜夫人健康院	美麗臺
Windsor House	Tung Wah Group of Hospitals-Fong Shu	Jardine House
SPCA	Chuen Day Activity Centre & Hostel	天寰
Two Harbour Square	屯門醫院蝴蝶灣洗衣房	聶歌信山
合和中心	Independent Schools Foundation	荃新天地
亞太中心	QBE Hongkong & Shanghai Insurance Ltd	South Island
Bandai Namco Holdings	Young Shin Ventilation (Korea)	西灣河市政大廈

Technical data



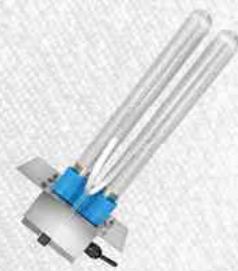
Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
102C	1 pcs	C- tube	1000 cfm / 0.46 m ³ /s	x
102D	1 pcs	D- tube	1500 cfm / 0.69 m ³ /s	x
102E	1 pcs	E- tube	2500 cfm / 1.16 m ³ /s	x



Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
102C-485	1 pcs	C- tube	1000 cfm / 0.46 m ³ /s	✓
102D-485	1 pcs	D- tube	1500 cfm / 0.69 m ³ /s	✓
102E-485	1 pcs	E- tube	2500 cfm / 1.16 m ³ /s	✓



Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
202E	2 pcs	E- tube	4000 cfm / 1.86 m ³ /s	x
202F	2 pcs	F- tube	4800 cfm / 2.23 m ³ /s	x



Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
202E-485	2 pcs	E- tube	4000 cfm / 1.86 m ³ /s	✓
202F-485	2 pcs	F- tube	4800 cfm / 2.23 m ³ /s	✓



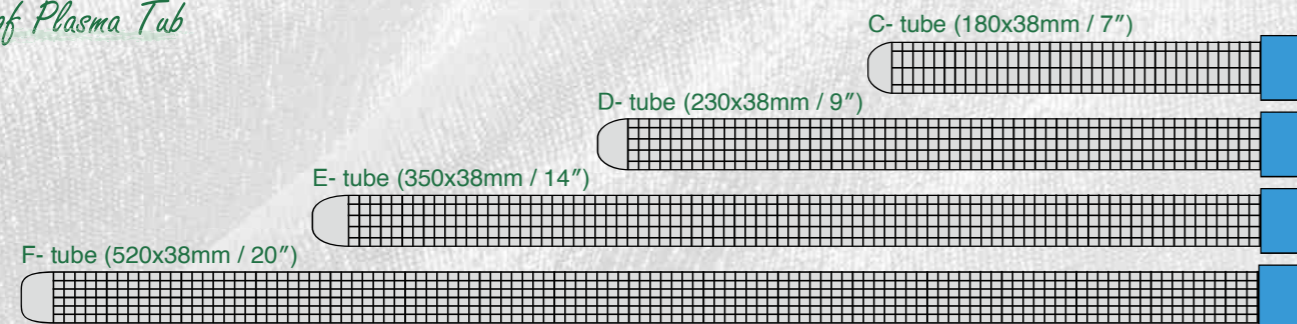
Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
402E	4 pcs	E- tube	6500 cfm / 3.02 m ³ /s	x
402F	4 pcs	F- tube	7800 cfm / 3.62 m ³ /s	x

Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
402E-485	4 pcs	E- tube	6500 cfm / 3.02 m ³ /s	✓
402F-485	4 pcs	F- tube	7800 cfm / 3.62 m ³ /s	✓

Type of Plasma Tub



Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
502E	5 pcs	E- tube	8000 cfm / 3.72 m ³ /s	x
502F	5 pcs	F- tube	10000 cfm / 4.65 m ³ /s	x



Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
802E	8 pcs	E- tube	11500 cfm / 5.35 m ³ /s	x
802F	8 pcs	F- tube	13000 cfm / 6.05 m ³ /s	x



Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
802E-485	8 pcs	E- tube	11500 cfm / 5.35 m ³ /s	✓
802F-485	8 pcs	F- tube	13000 cfm / 6.05 m ³ /s	✓

Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
1002E	10 pcs	E- tube	13500 cfm / 6.28 m ³ /s	x
1002F	10 pcs	F- tube	16000 cfm / 7.44 m ³ /s	x



Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
1002E-485	10 pcs	E- tube	13500 cfm / 6.28 m ³ /s	✓
1002F-485	10 pcs	F- tube	16000 cfm / 7.44 m ³ /s	✓

Model - Standard Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
1202E	12 pcs	E- tube	16200 cfm / 7.54 m ³ /s	x

Model - RS485 Version

Model	Qty. of Tube	Type of Tube	Air Flow Catering Capacity	RS485 Signal
1202E-485	12 pcs	E- tube	16200 cfm / 7.54 m ³ /s	✓

* CCMS or BMS systems are excluded

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 For more detail: www.hkcapc.org

Commercial Product Selection

When using innoclean bipolar ionization series on any project, it is important to provide the proper amount of ionization. In commercial or industrial projects, pollutants such as airborne particles from smoke, dust, spores; VOCs from cleaning supplies, glues, paints, or other chemicals; odors from locker rooms, cooking, nursing homes, industrial processes; and even health related concerns from mold, bacteria, and viruses all contribute to poor indoor air quality. Selecting the proper bipolar ionization system is important for achieving all the benefits from the ionization system. The information in below will guide you through the process.

Pollutant Load Factor

A	Office, classroom low pollutant levels	 <p>Low pollutant levels</p> <p>Heavy pollutant levels</p>
B1	Gymnasium, arena, locker room lower middle pollutant levels	
B2	Lobby, day care center, clinic, nursing home, pet clinic medium pollutant levels	
B3	Warehouse, casino, nail, restaurant, workshop upper medium pollutant levels	
C1	Recycling area, beauty salons, food waste lower heavy pollutant levels	
C2	Animal hospital, manufacturing, BBQ restaurant medium pollutant levels	
C3	Smoking area, Industrial facility, heavy manufacturing, garbage room heavy pollutant levels	
D	Extreme heavy pollution or odors typical of a waste water treatment facility, power plant	

Airflow (CFM) of Air Handler / AHU

	CFM/Sq. ft.	< 1,000	1,000	2,000	3,000	5,000	10,000	20,000
A1	> 2.0	102D @5	102E @5	(2)102E @5	(3)102E @5	(3)202E @5	(2)502E @5	(4)502F @3/ (2)1002F @3
A2	1.5 – 2.0	102D @5	102E @5	(2)102E @3	(3)202E @3	(2)502E @3	(2)502F @5	(4)502F @5/ (2)1002F @5
A3	< 1.5	102E @5	202E @5	(2)202E @5	(2)202E @5	802E @5	(2)802F @5	(4)802F @5/ (3)1002F @5
B1	N/A	202D @3	202D @5	(2)202E @3	(3)202E @5	502E @5	(2)502F @2	(4)502F @3/ (2)1002F @5
B2	N/A	202E @3	(2)202F @3	(3)202F @3	502F @5	802F @3	(2)802E @5	(4)802F @5/ (3)1002F @5
B3	N/A	(2)202F @3	(2)202F @5	502E @5	802F @3	(2)802F @3	(4)802F @5/ (3)1002F @5	(5)1002F @5
C1	N/A	(2)202F @3	(3)202F @5	802E @5	(2)802E @3	(3)802E @3/ (2)1002E @5	(4)1002E @5	(6)1002F @5
C2	N/A	(2)202E @5	(3)202F @5	1002E @5	(2)802E @5	(3)802F	(4)1002F	(6)1002F
C3	N/A	(3)202E @5	(3)202F @5	1002F @5	(2)802F @5	(3)1002F	(5)1002F	(8)1002F
D	N/A	*Consult innoclean Engineering Department for Engineering Support						

Pollutant Load Factor

Notes:

- The above chart indicates the innoclean model number required for various pollutant load factors and the associated air handler airflow quantities. Examples: 102D is a single tube unit with a D length tube, 202E is a two-tube unit with two E length tubes, and (2) 502F designates two 5-tube units with F length tubes.
- The ionization control knob on the equipment can be used to fine tune space ionization levels - 1 is the lowest and 5 is the highest. In the table above, @5 represents a setting of 5.
- CFM/Sq. ft. is the airflow per square foot of treated space. If the value is unknown, use A1 selection.

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