EddaAir®
Plasma Technology

Medical level

Powered By
**Plasma-Solutions**
Air Purification Technology
Beautiful | Air

# Breathe Nature Indoors

## PS-501T2

# Changeable environment, bacteria
# Keep hurting our physical and mental health

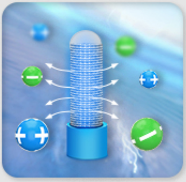
| | |
|---|---|
| 2003 | SARS |
| 2004 | H5N1 |
| 2006 | HFMD |
| 2009 | H1N1 |
| 2012 | MERS |
| 2014 | EBOIA |
| 2014 | DENGUE |
| 2016 | YELLOW FEVER |
| 2016 | ZIKA |
| 2018 | ASFV |
| 2019 | 2019-Bacterial |

## Plasma air disinfection and purification technology

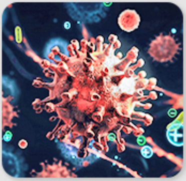
**Take Care Your Health**

## Working Principle

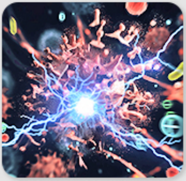
Plasma ions ionization system is the use of a specific voltage principle, through the positive and negative ion generator of the inner/outer electrode (through the insulator to separate them from each other) force the discharge triggered, and then generate similar to the nature of the ion cluster. These millions of charged ion clusters actively collide with bacteria, viruses, and other harmful substances in the a ir, breaking down cell membranes, DNA and proteins, making them rapidly break and inactivate, until they are killed and decomposed. This method is called air ionization technology.



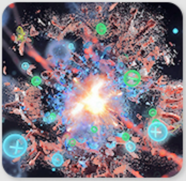
Plasma tube generation Lots of positive and negative ions



Ions attack the pathogen perforating cell walls



DNA and protein within the cell wall are destroyed



Which rapidly inactivates it Until it is killed and decomposed

# *Human-machine coexistence*

***Plasma * technology is different from traditional ozone UV purifiers.***

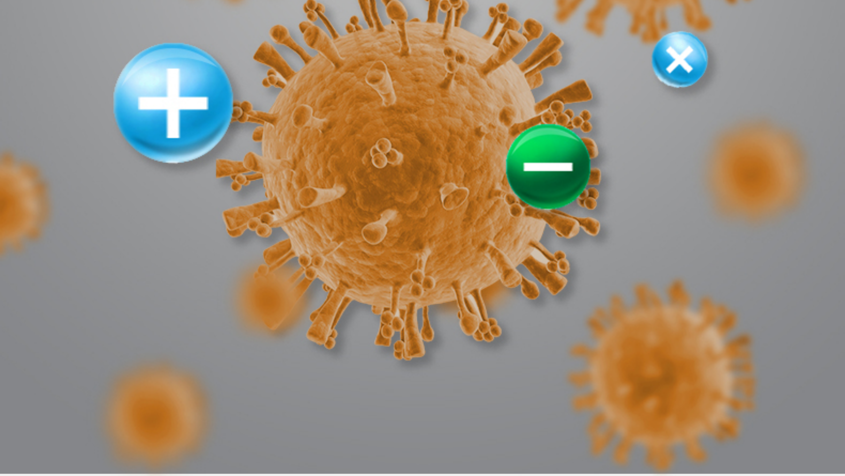
***Can do no harm to people and animals when working.***

# One minute *

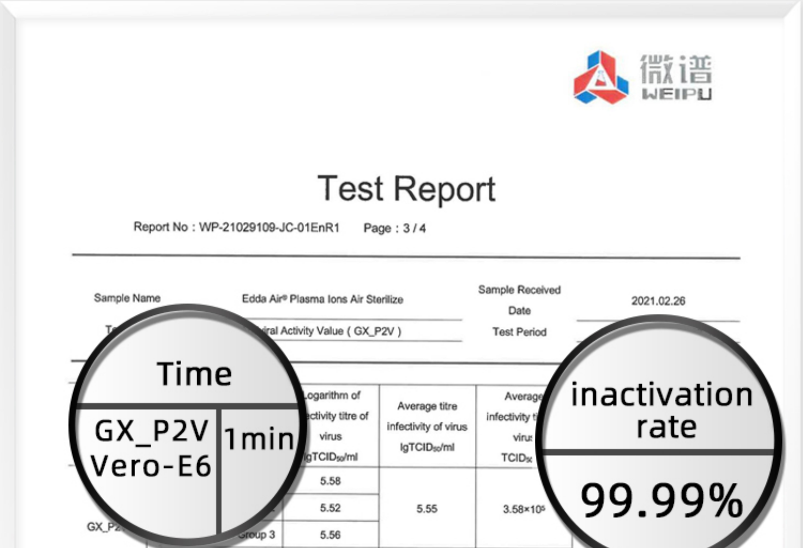
High Efficiency Sterilization

*inactivation ratio*

**Coronavirus > 99.99%**



* Report number: WP-21029109-JC-01EnR1



微谱
WEIPU

# Test Report

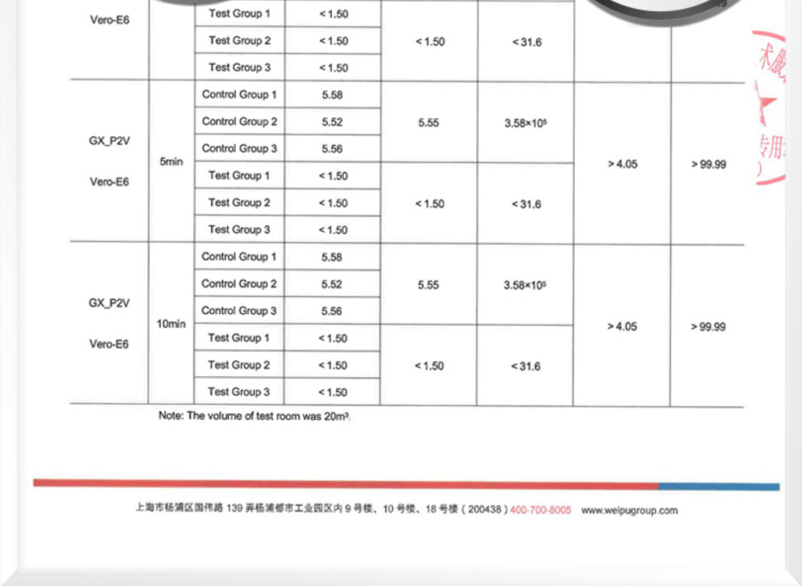
Report No : WP-21029109-JC-01EnR1 Page : 3 / 4

| | | | |
|---|---|---|---|
| Sample Name | Edda Air® Plasma Ions Air Sterilize | Sample Received Date | 2021.02.26 |
| Te | iral Activity Value ( GX_P2V ) | Test Period | |

| | | ogarithm of ctivity titre of virus gTCID50/ml | Average titre infectivity of virus lgTCID50/ml | Average infectivity t viru TCID5 |
|---|---|---|---|---|
| GX_P2 | | 5.58 | 5.55 | 3.58×10⁵ |
| | | 5.52 | | |
| | Group 3 | 5.56 | | |

| Time | |
|---|---|
| GX_P2V Vero-E6 | 1min |

| inactivation rate |
|---|
| 99.99% |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Vero-E6 | | Test Group 1 | < 1.50 | < 1.50 | < 31.6 | | |
| | | Test Group 2 | < 1.50 | | | | |
| | | Test Group 3 | < 1.50 | | | | |
| GX_P2V<br>Vero-E6 | 5min | Control Group 1 | 5.58 | 5.55 | $3.58\times10^{5}$ | > 4.05 | > 99.99 |
| | | Control Group 2 | 5.52 | | | | |
| | | Control Group 3 | 5.56 | | | | |
| | | Test Group 1 | < 1.50 | < 1.50 | < 31.6 | | |
| | | Test Group 2 | < 1.50 | | | | |
| | | Test Group 3 | < 1.50 | | | | |
| GX_P2V<br>Vero-E6 | 10min | Control Group 1 | 5.58 | 5.55 | $3.58\times10^{5}$ | > 4.05 | > 99.99 |
| | | Control Group 2 | 5.52 | | | | |
| | | Control Group 3 | 5.56 | | | | |
| | | Test Group 1 | < 1.50 | < 1.50 | < 31.6 | | |
| | | Test Group 2 | < 1.50 | | | | |
| | | Test Group 3 | < 1.50 | | | | |

Note: The volume of test room was 20m³.

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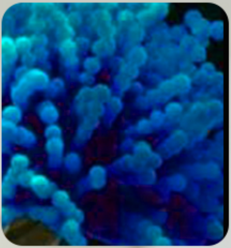
E. coli *[1]

Sterilization rate of 99.99%

Staphylococcus aureus *[1]

Sterilization rate of 90.91%



Aspergillus Niger *[1]

Sterilization rate of 99.99%

# Long - Term Air Purification

The positive and negative ions produce neutralization reaction energy

Deep removal of harmful gases in the air

# The Smell Removal Rate

# >97.5%

*[1]Gmicro Testing Report number：2019SP0928R01

**Other harmful substances can be purified**

- GX-P2V
- H1N1
- PM2.5
- peculiar smell
- Hand-foot-mouth
- ASFV

## Intelligent Operating System*

Only a mobile phone or computer can control the entire area's air cleaning equipment

Plasma Air IoT Control System
APP

Plasma gear:Level 3
Switch
Timing

* Optional functions, details, please consult customer service!

## Plasma ions Purifier VS Traditional Air Purifier

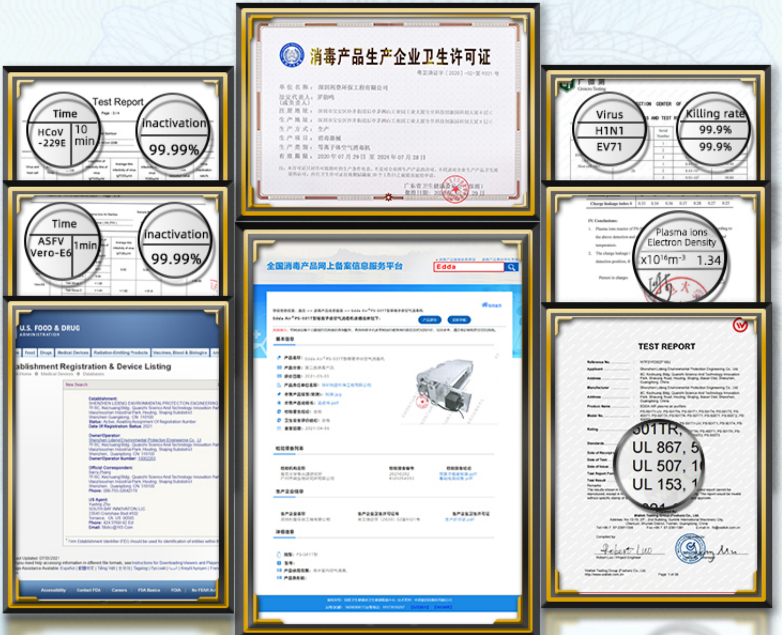
| Mode<br>Function | Plasma ions | PHOTOION GENERATOR | HIGH VOLTAGE STATIC ELECTRICITY | ACTIVATED CARBON FILTER 1 | UV 2 | Ozone machine | Chemical scrubber |
|---|---|---|---|---|---|---|---|
| **Antibacterial and antivirus** | **Fast** | General | General | \ | Slowly | Medium | \ |
| **Human and machine coexistence** | **Support** | Need to be designed | Support | Support | No | No | Support |
| Energy saving | **UP to 50%** | General | General | \ | General | Excellent | \ |
| Air resistance | \ | \ | \ | High | \ | \ | High |
| Real-time purification air capacity | **Excellent** | Low | Low | Low | Medium | Medium | Invalid |
| Eliminate Harmful gas | **Fast** | Low | Low | General | Less | General | General |
| Eliminate Harmful pollutants | **Fast** | General | General | Low | Less | General | Fast |
| Replacement cost | **Low** | Medium | High | Medium | Low | Low | High |
| Safety reliability | **High** | General | General | High | General | Low | General |
| Purify the area | **Widely** | General | General | General | Medium | Medium | General |

1. The high initial cost of activated carbon requires extra space in the air handling unit and high replacement costs.
2. Under high-intensity use, ultraviolet rays will produce toxic gas and have mutagenicity. The killing rate of bacteria can be ignored Ignore it, it has no effect in the occupied space.

# Qualification & Test Report

## U.S. Food and Drug Administration registered products(FDA)

**Guangdong Health Consumer Certificate (2020)-02-No. 9321**



消毒产品生产企业卫生许可证

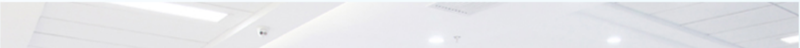
粤卫消证字〔2020〕-02-第9321号

单位名称：深圳利登环保工程有限公司
生产方式：生产
生产项目：消毒器械
生产类别：等离子体空气消毒机
有效期限：2020年07月29日 至 2024年07月28日

Test Report
Time
HCoV-229E
10 min
Inactivation
99.99%
Time
ASFV Vero-E6
1min
Inactivation
99.99%
U.S. FOOD & DRUG ADMINISTRATION
Establishment Registration & Device Listing
全国消毒产品网上备案信息服务平台
Edda
Virus
H1N1
EV71
Killing rate
99.9%
99.9%
Plasma ions Electron Density
x10¹⁶m⁻³
1.34
TEST REPORT
501TR,
UL 867, 5
UL 507, 1
UL 153, 1

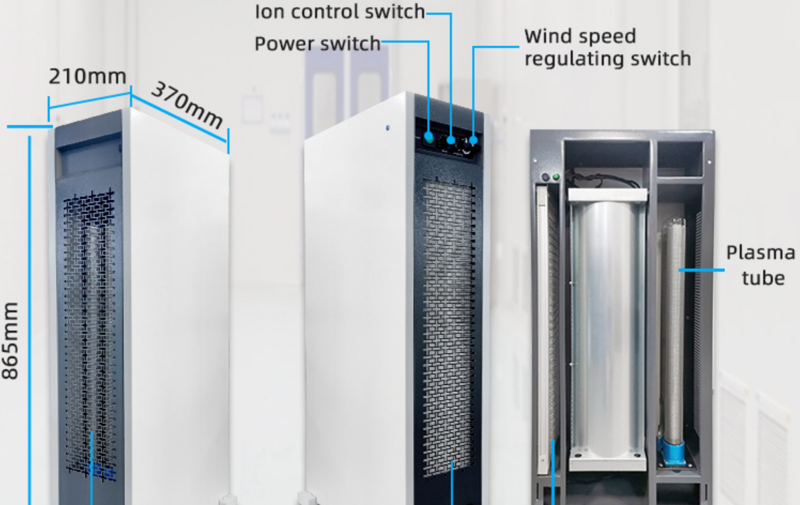
# Product Application

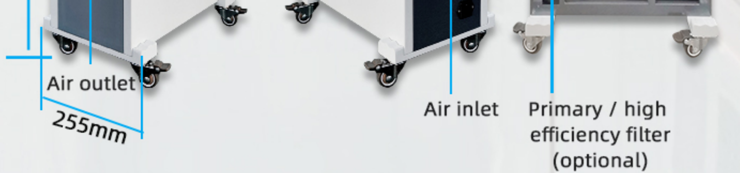
Always bring your own sunshine!



# Product Parameters

## PS-501T2(Movable Series)


Ion control switch
Power switch
Wind speed regulating switch
210mm
370mm
865mm
Plasma tube


Air outlet
255mm
Air inlet
Primary / high efficiency filter (optional)

| Voltage and Power | Sterilization Method | Inactivation ratio% | Escherichia coli Inactivation rate | Material |
|---|---|---|---|---|
| 120V AC/ 240V AC<br>60W | Plasma | 99.99% | 99.99% | SPCC |

| Air Volume $m^3/h$ | Weight | Ion Tube Size (Standard) | Number of Ion Tubes | Ion Tube Life | Covered Area |
|---|---|---|---|---|---|
| 0 ~ 850 | 22.35kg | 520mm | 1 | 17000 Hours | 50 ~ 100$m^2$ |