EddaAir®
Plasma Technology

Medical level

Powered By
Plasma-Solutions
Air Purification Technology
Beautiful | Air

EddaAir
Plasma Technology

Breathe Nature Indoors

PS-501TX

Changeable environment, bacteria
Keep hurting our physical and mental health

SARS
2003

2004
H5N1

HFMD
2006

2009
H1N1

MERS
2012

2014
EBOIA

DENGUE
2014

2016
YELLOW FEVER

ZIKA
2016

2018
ASFV

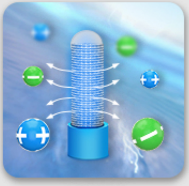
2019-Bacterial
2019

Plasma air disinfection and purification technology

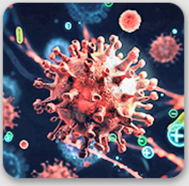
Take Care Your Health

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.

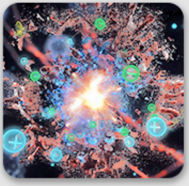


Plasma tube generation Lots of positive and negative ions



Ions attack the pathogen perforating cell walls

DNA and protein within the cell wall are destroyed

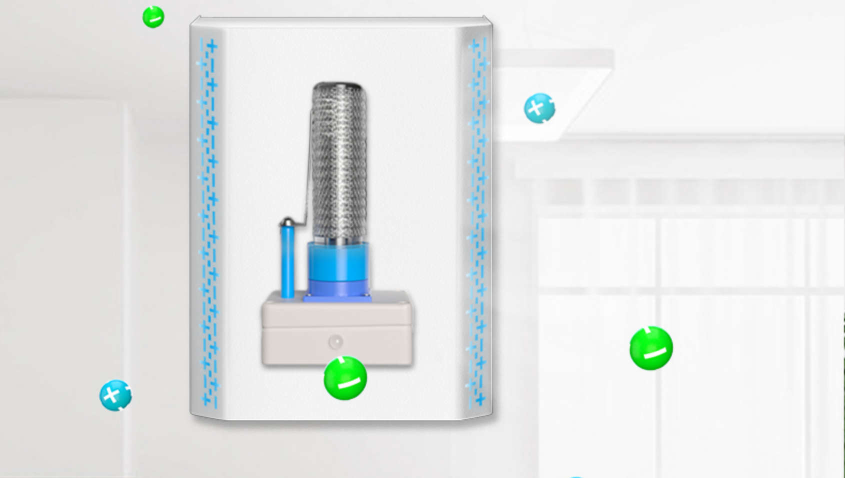


Which rapidly inactivates it Until it is killed and decomposed

Human-machine coexistence

Plasma * technology is different from traditional ozone UV purifiers.

no harm to people and animals when working.

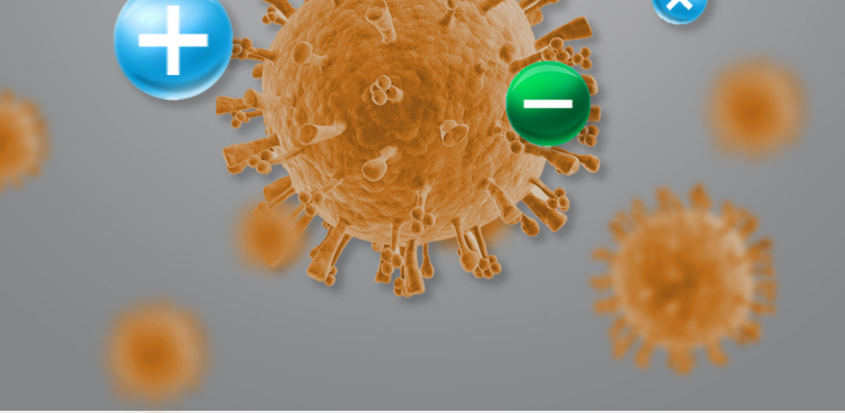


One minute *

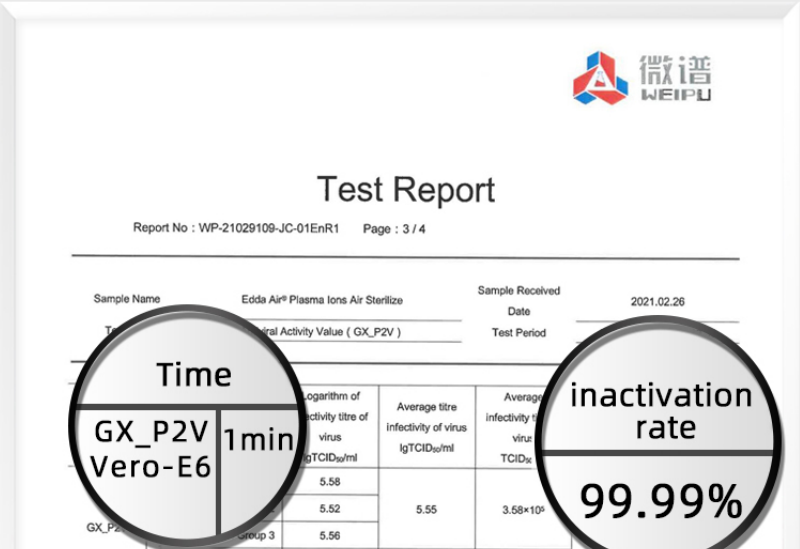
High Efficiency Sterilization

inactivation ratio

Coronavirus > 99.99%



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



微谱
WEIPU

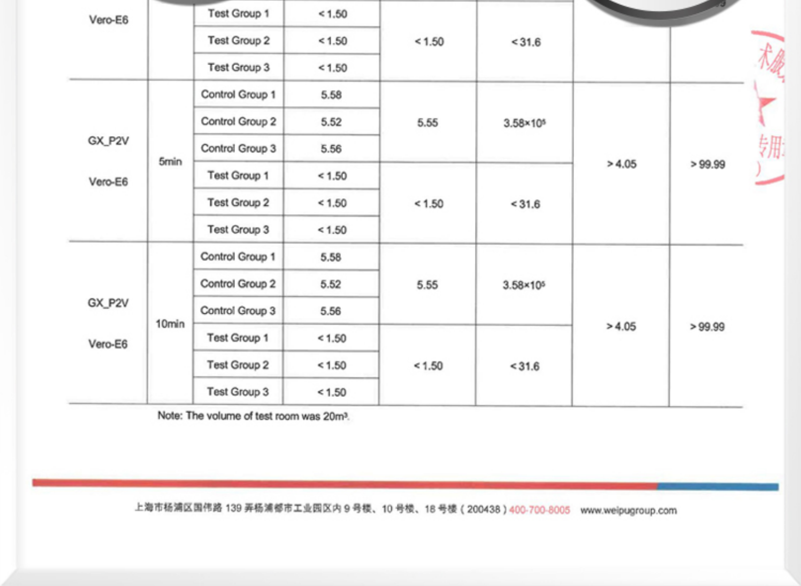
Test Report

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	

		Logarithm of ctivity titre of virus lgTCID$_{50}$/ml	Average titre infectivity of virus lgTCID$_{50}$/ml	Average infectivity t virus TCID$_{50}$
		5.58	5.55	3.58×10^{5}
		5.52		
GX_P2	Group 3	5.56		

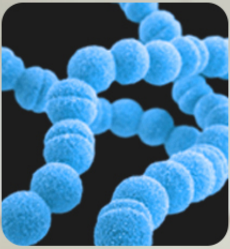
Time
GX_P2V
Vero-E6
1min
inactivation rate
99.99%



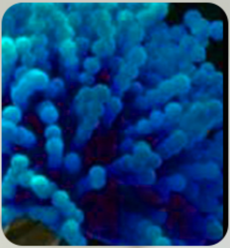
Vero-E6		Test Group 1	< 1.50	< 1.50	< 31.6		
		Test Group 2	< 1.50				
		Test Group 3	< 1.50				
GX_P2V Vero-E6	5min	Control Group 1	5.58	5.55	$3.58×10^5$	> 4.05	> 99.99
		Control Group 2	5.52				
		Control Group 3	5.56				
		Test Group 1	< 1.50	< 1.50	< 31.6		
		Test Group 2	< 1.50				
		Test Group 3	< 1.50				
GX_P2V Vero-E6	10min	Control Group 1	5.58	5.55	$3.58×10^5$	> 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 $20m^3$.

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%

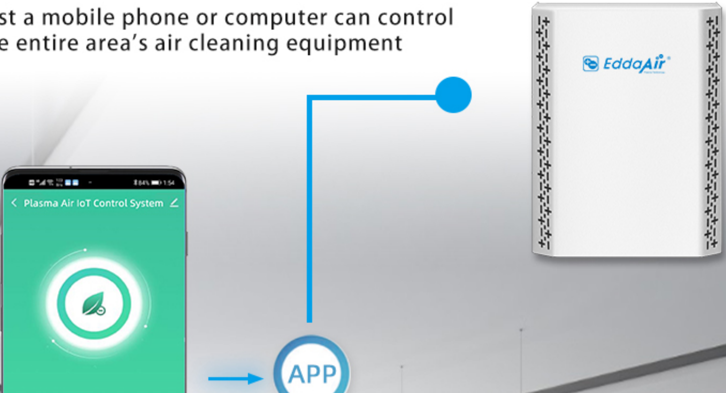
*[1] Gmicro Testing Report number：2019SP9404R01

Other harmful substances can be purified:

- GX-P2V
- Bacterial
- PM2.5
- Peculiar smell
- Hand-foot-mouth
- ASFV

Smart Operating System*

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


EddaAir
Plasma Air IoT Control System
APP

Plasma gear:Level 3
Switch
Timing
EddaAir

* Optional functions, details, please consult customer service!

Plasma ions Purifier VS Traditional Air Purifier

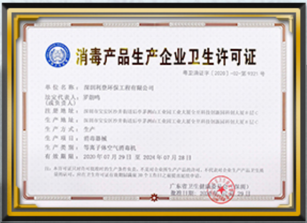
Mode / Function	Plasma ions	PHOTOION GENERATOR	HIGH VOLTAGE STATIC ELECTRICITY	ACTIVATED CARBON FILTER 1	UV 2	Ozone machine	Chemical scrubber
Antibacterial and antivirus	**Fast**	General	General	╲	Slowly	Medium	╲
Human and machine coexistence	**Support**	Need to be designed	Support	Support	No	No	Support
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

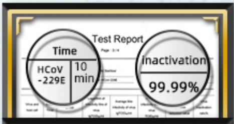
U.S. Food and Drug Administration registered products(FDA)

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



消毒产品生产企业卫生许可证

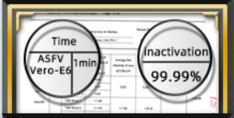
单位名称：深圳利登环保工程有限公司
法定代表人（或负责人）：罗朝鸣
生产方式：生产
生产项目：消毒器械
生产类别：等离子体空气消毒机
有效期限：2020年07月29日 至 2024年07月28日



Test Report

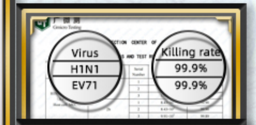
Time	
HCoV-229E	10 min

Inactivation 99.99%

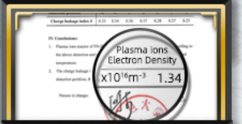


Time	
ASFV Vero-E6	1min

Inactivation 99.99%



Virus	Killing rate
H1N1	99.9%
EV71	99.9%



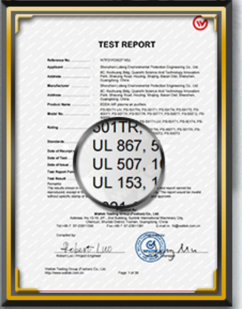
Plasma ions Electron Density $\times 10^{16} m^{-3}$ 1.34

U.S. FOOD & DRUG ADMINISTRATION

ablishment Registration & Device Listing

全国消毒产品网上备案信息服务平台

Edda

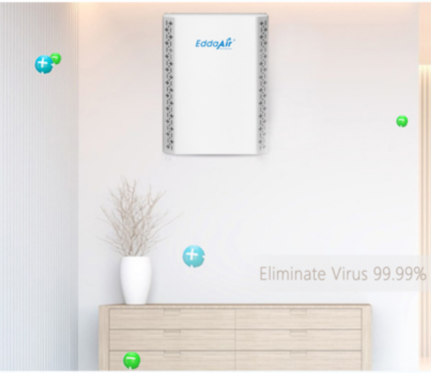


TEST REPORT

301TR,
UL 867, 5
UL 507, 1
UL 153, 1

ISO FUDAN UNIVERSITY 1905 RoHS FDA ADMINISTRATION FC CE CMA

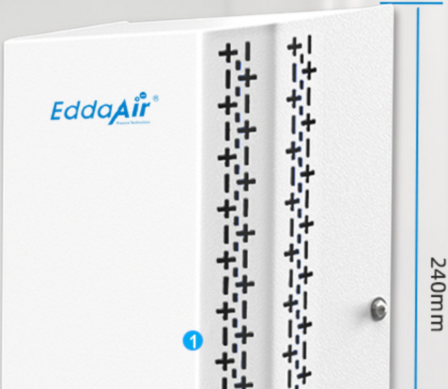
Product Application

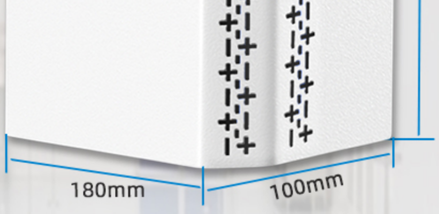


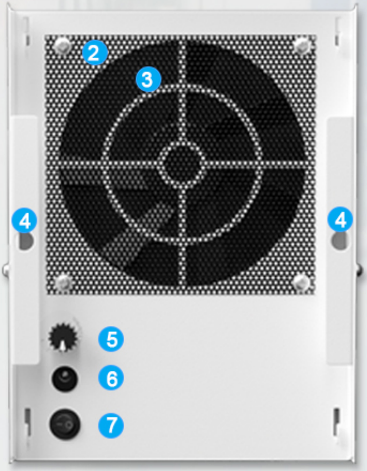
EddaAir
Get Well Soon!

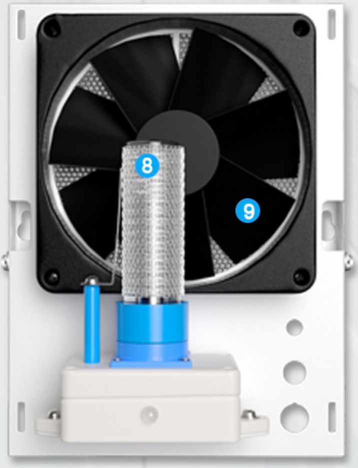
Product Parameters

PS-501TX(Wall-mounted series)









- ① Air outlet
- ② Primary filter
- ③ Air inlet
- ④ Positioning hole
- ⑤ Ion concentration adjustment switch
- ⑥ Power connector
- ⑦ Switch
- ⑧ Plasma tube
- ⑨ Fan

Voltage and Power	Sterilization Method	Inactivation ratio%	Escherichia coli Inactivation rate	Material
12V DC / 24V DC 7 W	Plasma	99.99%	99.99%	stainless steel

Air Volume m³/h	Weight	Ion Tube Size (Standard)	Number of Ion Tubes	Ion Tube Life	Covered Area
0 ~ 128	1.4 kg	80mm	1	17000 Hours	50 ~ 80m²