Bus Air Purifier System

Photocatalyst

Sterilize

UV Lamp

Human Harmless

Plasma

For Fresh Bus Air

For a Safe and Health Bus Trip!

Ozontor 1000 Bus Air Anion Generator

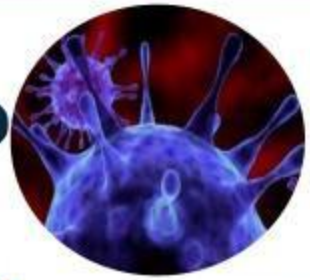
Smart Display Screen. Air Purifier for Bus

---Function Introduction

Main source and reason of Air pollution in Bus

virus carried by the human body

Virus/Germs on the surface of the Bus seats, armrests, floors, curtains, and debris in the bus



Sweat, breath, body odor emitted by people

Formaldehyde, harmful gaseous pollutants and odors emitted from the interior of the bus and plastic products

Various toxic , harmful pollutants and dust from outside air

Contaminants existing in air conditioner,heating system and air duct

What are the sources of pollutants in the bus?

Testing report

Pollutant	Initial pollutant concentration	Rated air velocity(m3 /h)	0.5h removal rate(%)	1h removal rate(%)
Formaldehyde(HCHO)	0.96~1.44mg/m³	> 4800	≥85	≥95
Toluene (C_7H_8)	1.92~2.88mg/m³	> 4800	≥85	≥95
Xylene(C_8H_{10})	1.92~2.88mg/m³	> 4800	≥85	≥95
Total volatile organic compounds(TVOC)	4.8-7.2mg/m³	> 4800	≥85	≥99.9
Particulates	0.70-0.85mg/m³	> 4800	≥95	≥99.9
Virus and other Microbes	According to GB 21551.3	> 4800	≥95	≥99.9

Test conditions: 12-meter large passenger bus 6 evaporation blower, maximum air velocity operation, internal circulation

This virus killing device is installed at the return air grille of bus air conditioner, which is easy to install and maintain

Loading verification: After 25 minutes of deeper purification, it decreased from 759 micrograms / m3 (level 6 severe pollution) to 33 micrograms / m3 (excellent first-class air quality). The air quality was 23 times higher than before, and virus killing rate is 99.98%.

Completely disinfection and purification of the air inside the 12-meter bus every 2 minutes

Test Report Issued By Guangdong Detection Center Of Microbiology

报告编号（Report №.）：2020FM03764R01

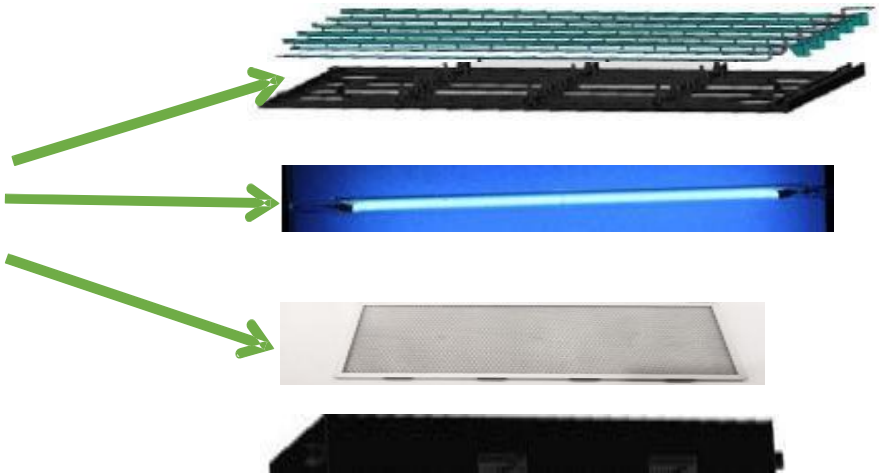
Bacterial content

测试微生物 Test Microorganism	作用时间 Action Time	序号 No	空气中含菌量 (cfu/m³)	除菌率 Sterilization rate (%)
白色葡萄球菌（*Staphylococcus albus*）8032	0h(CK)	1	7.3×10^4	
		2	7.7×10^4	
		3	7.1×10^4	
	1h	1	1.2×10^3	97.52
		2	9.2×10^2	98.28
		3	7.1×10^2	98.50
	平均值 Average Value			98.10
金黄色葡萄球菌（*Staphylococcus aureus*）ATCC 6538	0h(CK)	1	6.6×10^4	
		2	6.6×10^4	
		3	6.9×10^4	
	1h	1	1.2×10^3	97.29
		2	7.8×10^2	98.20
		3	1.5×10^3	96.74
	平均值 Average Value			97.41
.大肠杆菌（*Escherichia coli*）ATCC8099	0h(CK)	1	8.5×10^4	
		2	8.4×10^4	
		3	8.3×10^4	
	1h	1	8.8×10^2	98.20
		2	9.8×10^2	98.06
		3	6.4×10^2	98.70
	平均值 Average Value			98.32

From testing result, we can clealy see that after opening 1 hour of this device, the sterilization rate is around 97%-98%.

After 2 hours' working, the **sterilization rate can reach 99.9%**

Structure Introduction

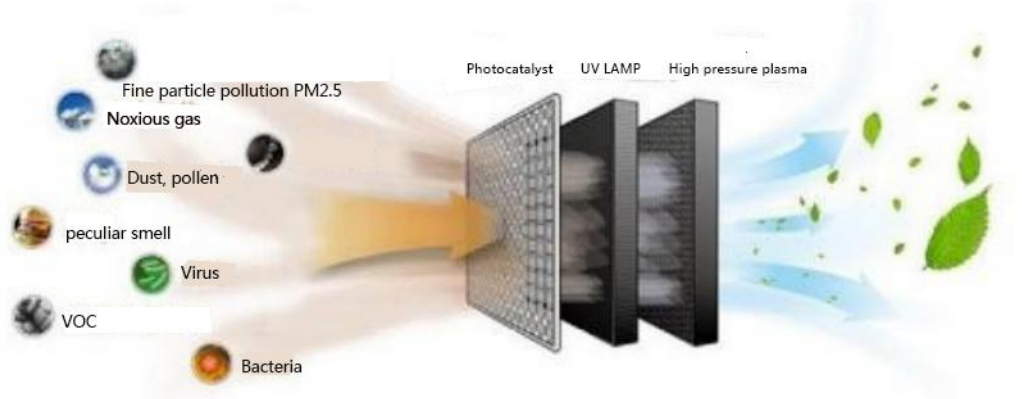


Plasma technology(High voltage pulse)

UVC Ultraviolet radiator

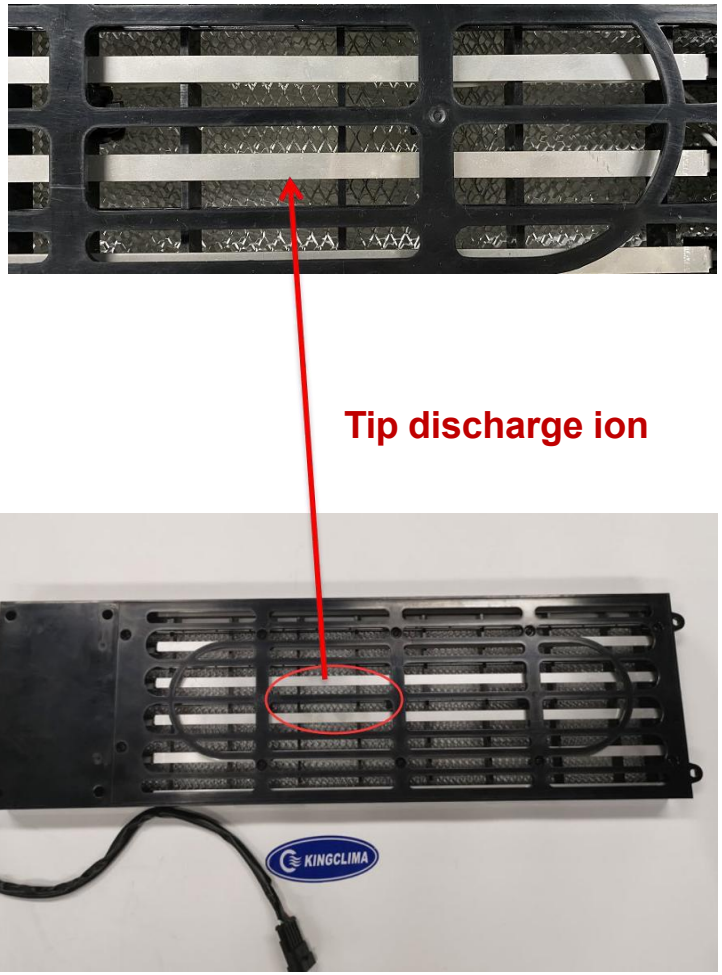
Photocatalytic purification(Photocatalyst filter)

Decomposition of harmful substances



This system use Plasma air purification technology, Which has powerful sterilization function,killing the virus and other Microbes; It can effectively reduces PM2.5, eliminates smell of cigaretts and unpleasant odor, decomposes harmful gases, improves air quality in the bus, and supplements negative oxygen ions, etc. Multiple functions and intelligent remote monitoring can keep drivers and passengers away from viruses, odors and air pollution in the bus, and enjoy the natural fresh air during the journey.

Device's 3 “Black Technology”---1 Plasma technology(High voltage pulse)



1. The working principle of an ion purifier is to implement tip discharges in small units. Under the action of an electric field, a large number of small ion groups are generated, and small ions collide with oxygen molecules in the air to form positive and negative oxygen.

Positive oxygen ion:

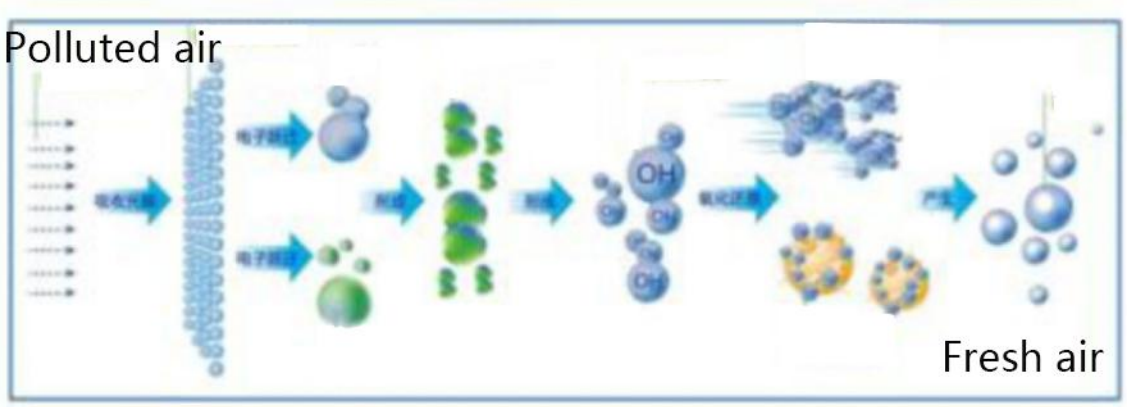
Positive oxygen ions have strong activity, can oxidize and decompose pollution factors such as methyl mercaptan, ammonia, hydrogen sulfide, and open the chemical chain of organic volatile gases in a short period of time. After a series of reactions, carbon dioxide and water.

Positive oxygen ions can destroy the living environment of bacteria in the air, make bacteria and spores inactive, and can no longer reproduce, thereby reducing the indoor bacteria concentration.

Negative oxygen ions:

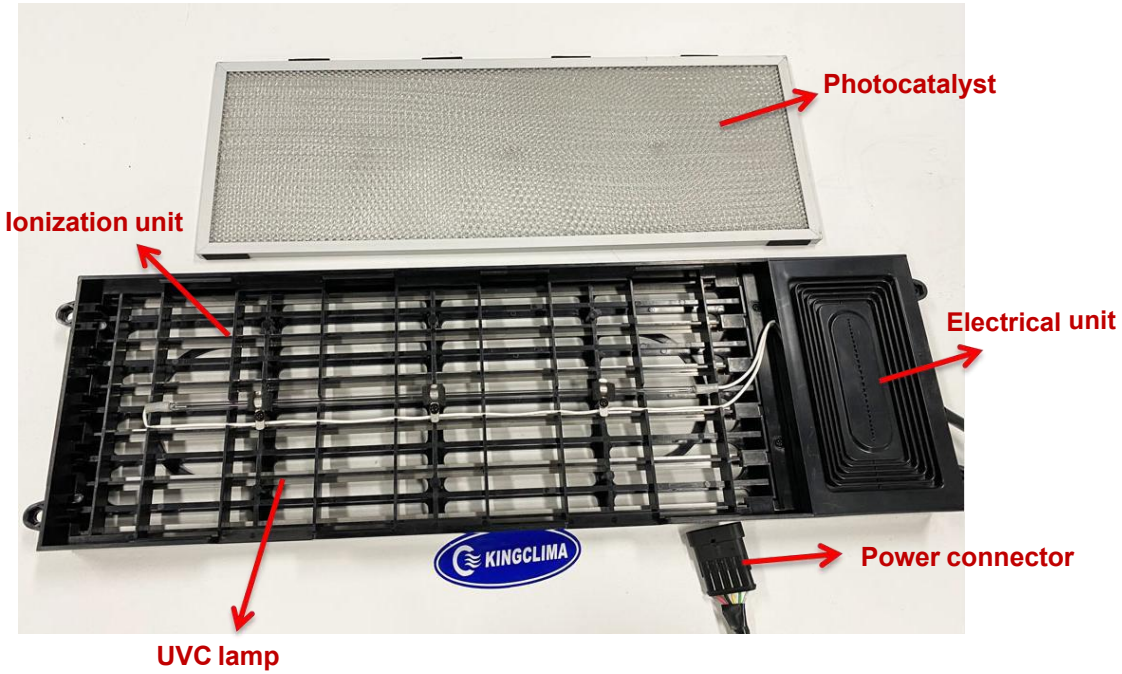
It can absorb suspended particles that are tens of times larger than its own weight and settle down by its own weight, thereby removing suspended colloids (aerosols) in the air to purify the air.

Device's 3 “Black Technology”---2 (Photocatalytic catalysis)



Photocatalytic purification technology utilizes the photocatalytic effect of nanomaterials for air treatment. It cooperates with the electrostatic adsorption plant to effectively treat volatile gas pollutants and bacterial microorganism pollutants

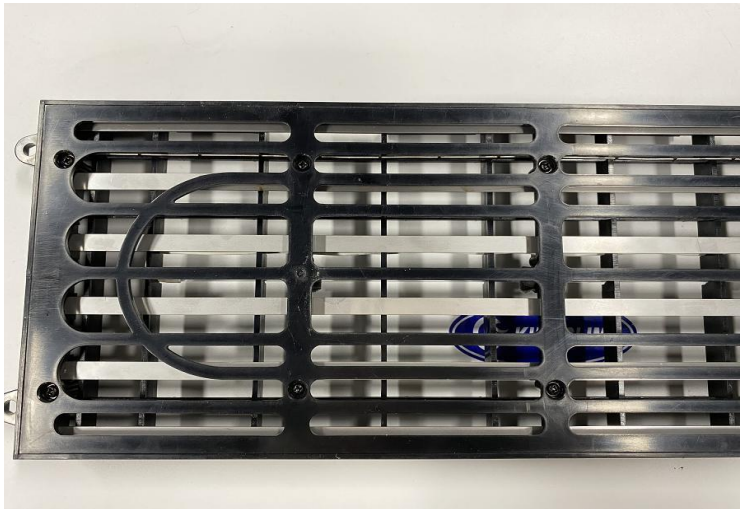
Device's 3 “Black Technology”---3 (UVC Ultraviolet radiator)

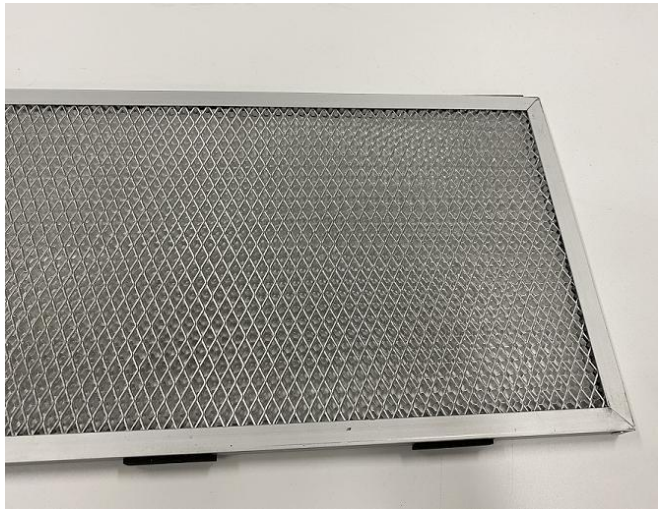


Ultraviolet sterilization is to destroy the molecular structure of DNA (deoxyribonucleic acid) or RNA (ribonucleic acid) in the cells of microorganisms by using ultraviolet rays of appropriate wavelengths, causing growth cell death and regenerative cell death to achieve the effect of sterilization

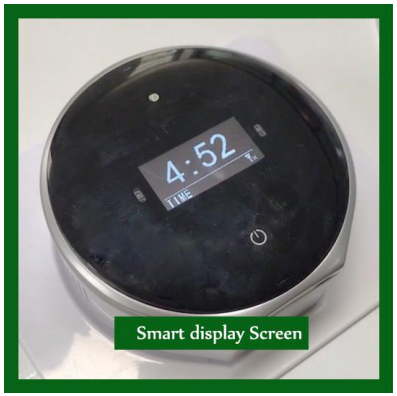
Device's 3 “Black Technology”---4 (Virus Killing Device2020 Photo)

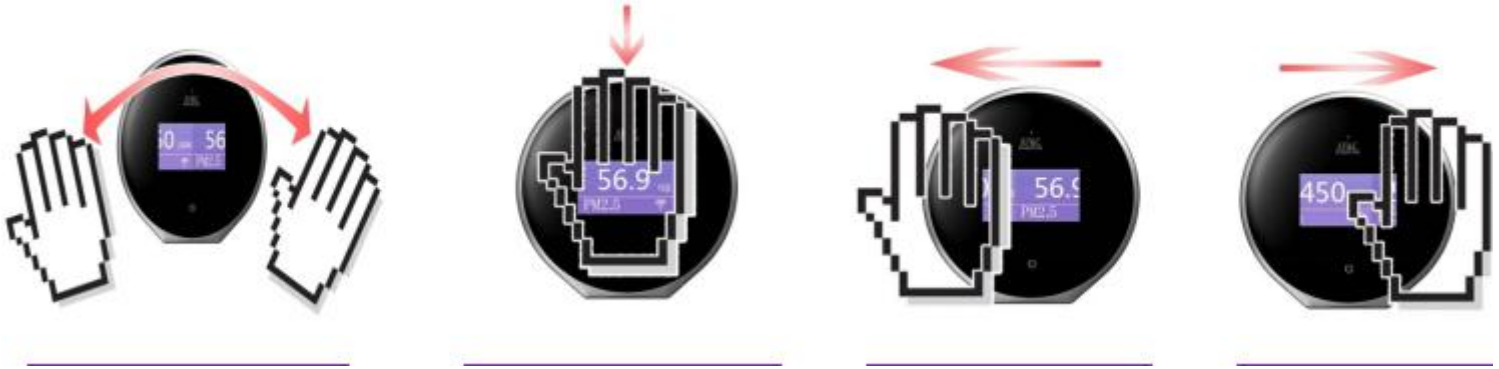
Dimensions:630x180mm and 440x180mm.





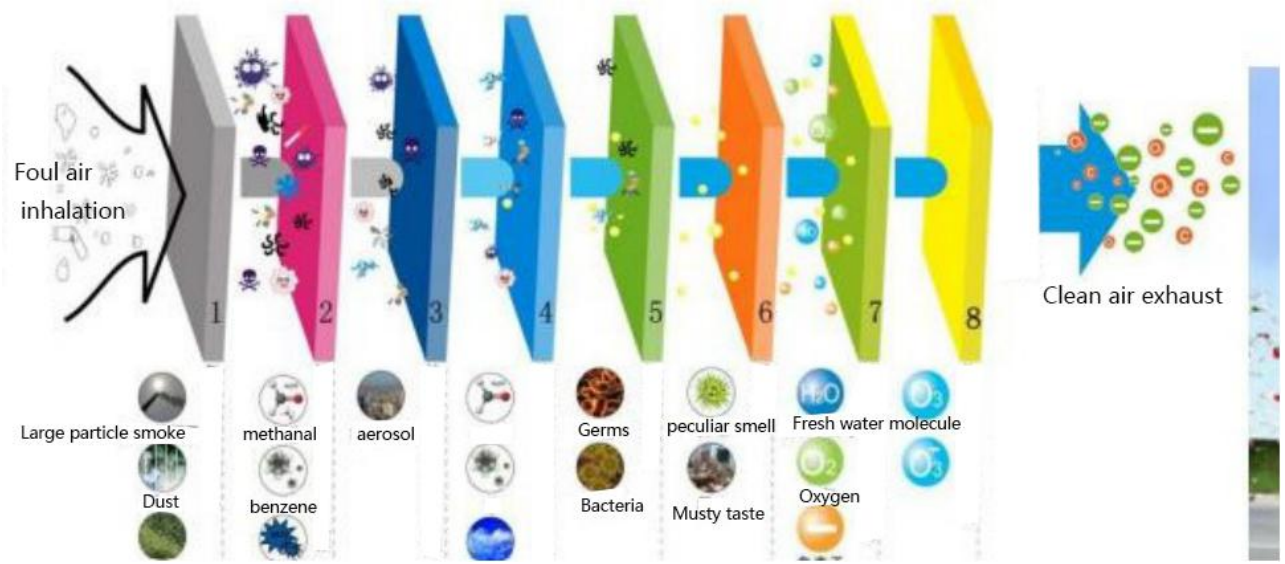
Display Screen





Smart Display Screen.
Support gesture switch display interface (Monitering data of PM2.5、CO2、TVOC in the home,vehicle etc.)

Bus air purification process



By forming a high-voltage pulsed electric field inside the vehicle disinfection and purification system equipment, a directional and quantitative strong ion is formed to avalanche collision with the pollutant molecules, breaking the CC and CH molecular bonds of the pollutants, together with the built-in UVC ultraviolet light and photocatalyst filtering Nets and ozone generating devices destroy the cell membranes of bacteria and the chemical bonds of DNA and harmful gases in the air passing through the electric field. At the same time, it captures micro particles such as dust to achieve electrostatic adsorption effect, thereby inactivating microorganisms and viruses, cracking harmful gases, and purifying particulate matter. the goal of.

Can effectively eliminate and kill the followings:

Plankton mold, planktonic bacteria and viruses, mites, dust, dander, formaldehyde, toluene, xylene, benzene, total volatile organic compounds (TVOC), smoke, sweat odor, assimilated carbon in bus exhaust, carbon dioxide, and Nitrogen oxides, etc., **even include influenza viruses, SARS viruses and new coronaviruses.**

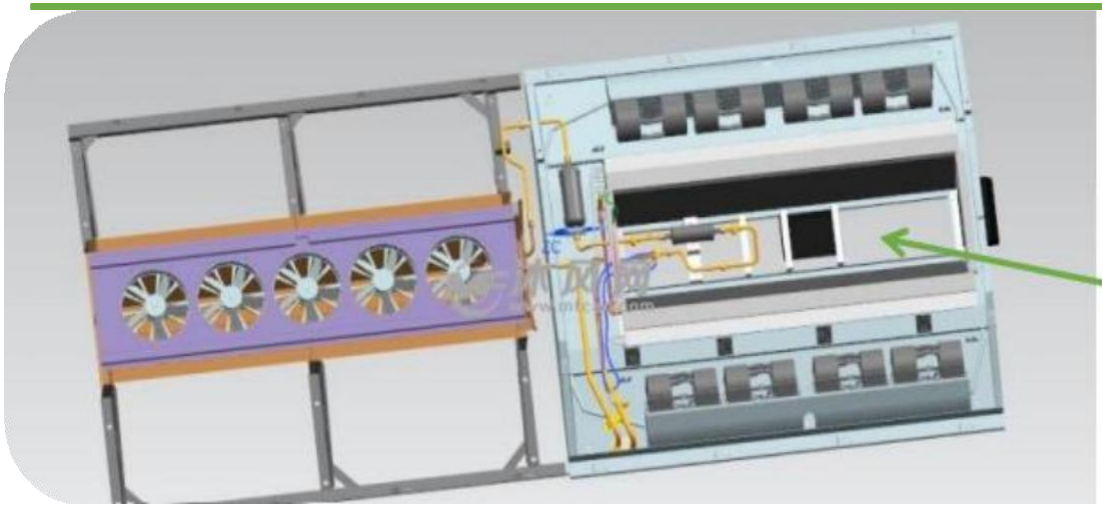
Applicable models



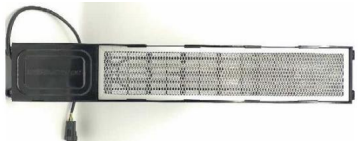



Suitable for tourist buses, 8m, 10m, 12m buses, 6m school buses, high-speed rail, special vehicles.

Installation Tips

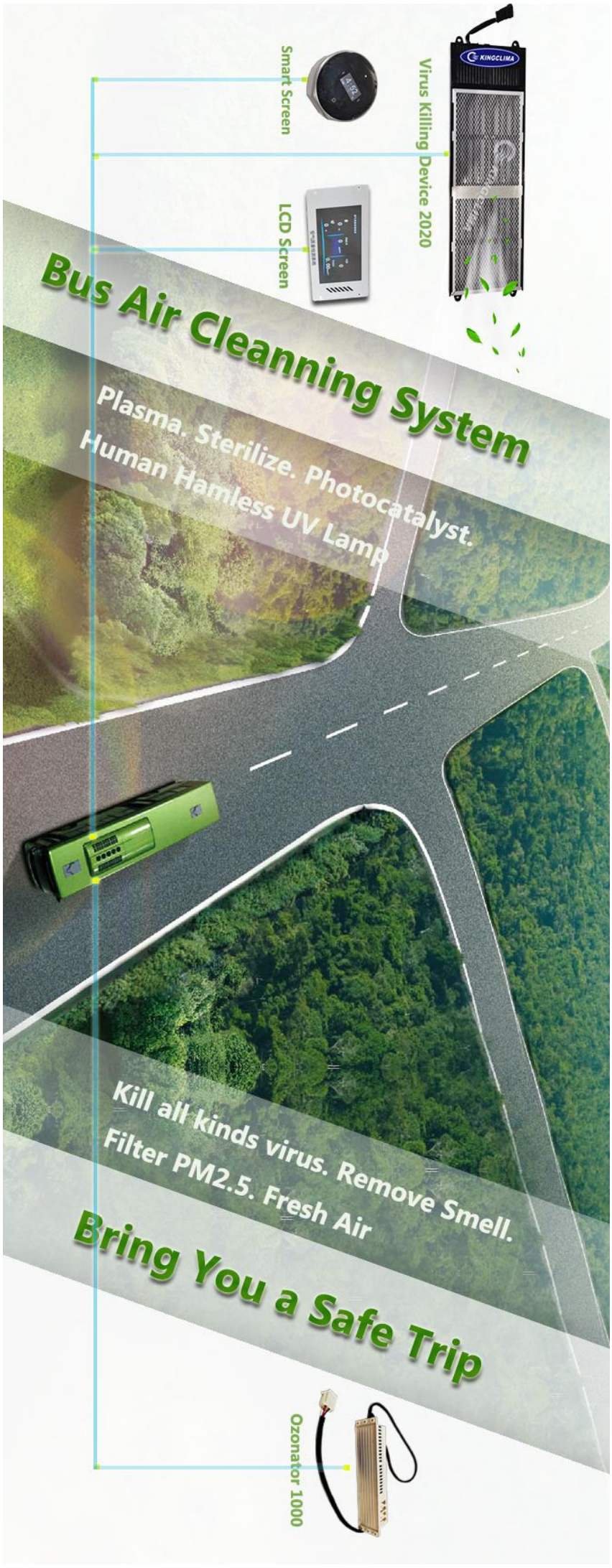


For single return grill A/C



For double return grill A/C

The disinfection purifier is installed in the return air outlet of Bus A/C. The installation method can be adjusted inside the return air outlet of any width by adjusting the mounting bracket on the product. The special adapter cable is used to connect the lines in the air conditioner to ensure stable and reliable work. Installation of a product requires up to 2 man-hours. Subsequent maintenance can be more convenient by opening the return air vent.


Smart Screen
LCD Screen
Virus Killing Device 2020
Ozonator 1000
Bus Air Cleanning System
Plasma. Sterilize. Photocatalyst.
Human Hamless UV Lamp
Kill all kinds virus. Remove Smell.
Filter PM2.5. Fresh Air
Bring You a Safe Trip