Ozoneair Purify successfully removes up to 99,24% of virus from air in a laboratory testing environment

Which product?

The test approved the effectiveness of the Oxyplasma® technology in Ozoneair Purify 60 model in destroying virus, bacteria and mold spores.

How did we test?

Purify was placed inside a 10m³ sealed space with high speed fan setting. The different groups of contaminations were sprayed into the sealed chamber. Temperature and humidification were controlled during the testing period. The natural decay of the microorganisms in air has been eliminated in the result. After two hours a six mesh type air microorganism sampler was used for testing.

Test method

GB 21551.3-2010A referring to GB 21551.3-2010 Appendix A

What was the result?

A log 2,12 reduction was achieved after two hours of treatment, Oxyplasma® is a reliable technique for reducing microorganisms, virus and spores.

Microorganism	**Initial concentration**	**Time**	**Sterilization rate**
H1N1 Influenza A virus	2,33 x 10^6 cfu/m^3	2 hours	99,24 %
Staphylococcus albus	1,4 x 10^5 cfu/m^3	2 hours	96,67 %
Escherichia coli 8099	1,5 x 10^5 cfu/m^3	2 hours	96,72 %
Staphylococcus aureus	1,2 x 10^5 cfu/m^3	2 hours	96,46 %
Aspergillus niger	7,9 x 10^4 cfu/m^3	2 hours	95,13%

Tested by: Gmicro Testing Detection Center of Microbiology.
On behalf of Ozoneair

Ozoneair Purify successfully destroys bacteria; 99,99% reduction of E.coli on surfaces in a laboratory testing environment

Which product?

The test approved the effectiveness of the Oxyplasma® technology in Ozoneair Purify 60 model, in destroying bacteria on surfaces.

How did we test?

Purify was placed inside a 10m³ sealed chamber with high fan setting. Temperature and humidification were controlled during the testing period. During the test, the bacteria carrier was placed 6 cm away from Purify. The natural decay of the microorganisms has been eliminated in the result. The test was conducted for four hours.

Test method

Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4

What was the result?

With a log 4 reduction after four hours of treatment, Oxyplasma® is a reliable technique for destroying bacteria on surfaces.

Microorganism	**Initial concentration**	**Time**	**Sterilization rate**
Escherichia coli 8099	4,2 x 10^6 cfu/m³	4 hours	> 99,99 %

Tested by: Gmicro Testing Detection Center of Microbiology.
On behalf of Ozoneair

Ozoneair Purify successfully reduces 97,90% of VOC from air in a laboratory testing environment.

Which product?

The test approved the effectiveness of the Oxyplasma® technology in Ozoneair Purify 60 on removal of total volatile organic compounds (TVOC).

How did we test?

Purify was placed inside a 10m³ sealed chamber with the highest fan speed setting. Temperature and humidification levels were controlled during the testing period. The natural decay in air has been eliminated in the result. The test was conducted for 48 hours.

Test method

GB 36893-2018 A referring to GB 36893-2018 Appendix A

What was the result?

After 48 hours treatment, TVOC was reduced with 97,90%, proving that Oxyplasma® is a reliable technique for destroying VOC.

Pollutant	Initial concentration	Time	Purification efficiency
TVOC	6,11 mg/m³	48 hours	97,90 %

Tested by: Gmicro Testing Detection Center of Microbiology.
On behalf of Ozoneair

Ozoneair Purify successfully reduces 93,97% of birch allergens from air in a laboratory testing environment.

Which product?

The test approved the effectiveness of the Oxyplasma® technology in Ozoneair Purify 60 on removal of Bet v1 Betula pendula allergen 1, also known as allergens from birch.

How did we test?

After the purifier was running for 2 hours with Clean mode and maximum wind speed in the 10m³ test chamber, the air was collected at a flow rate of 13 L/min using a liquid percussive microbial aerosol sampler. The sampling time of the test group and the control group was 5 minutes.

Test method

T/GIEHA 009-2018

What was the result?

After 2 hours treatment, was reduced with 93,97%, proving that Oxyplasma® is a reliable technique for destroying allergens from birch.

Test allergen	Initial concentration	Time	Purification efficiency
Bet v1 Betula pendula allergen 1 (white birch)	649,54 ng/m³	2 hours	93,97 %

Tested by: Gmicro Testing Detection Center of Microbiology.
On behalf of Ozoneair