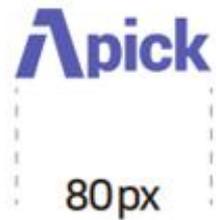


# Dr. AirPick

## Introduction

# Brand

## For Small Home Appliances



Minimum size of the logo



A + 1  
Best + No.1

Apick의 A에 숫자1을 결합시켜 최상의 품질과 서비스를 제공한다는 의미를 담았습니다.  
또한 Apick은 종합가전제품 브랜드로 제품의 신뢰성과 광고효과가 중요하다고 생각하고 다양한 상황에 잘 어울려 지기 위해 너무 얇거나 특징이 강한 세리프체를 사용해보다 기록성이 높고 기본에 충실한 산세리프체를 사용하였습니다.  
브랜드의 의미가 담긴 A를 강조하기 위하여 pick은 상대적으로 크기를 줄이고 아예의 비율을 맞추어 전체적인 통일감을 주었습니다.

Dr. AirPick

Dr. AIRPick



# Introduction

## Built-in of self-developed ion modules



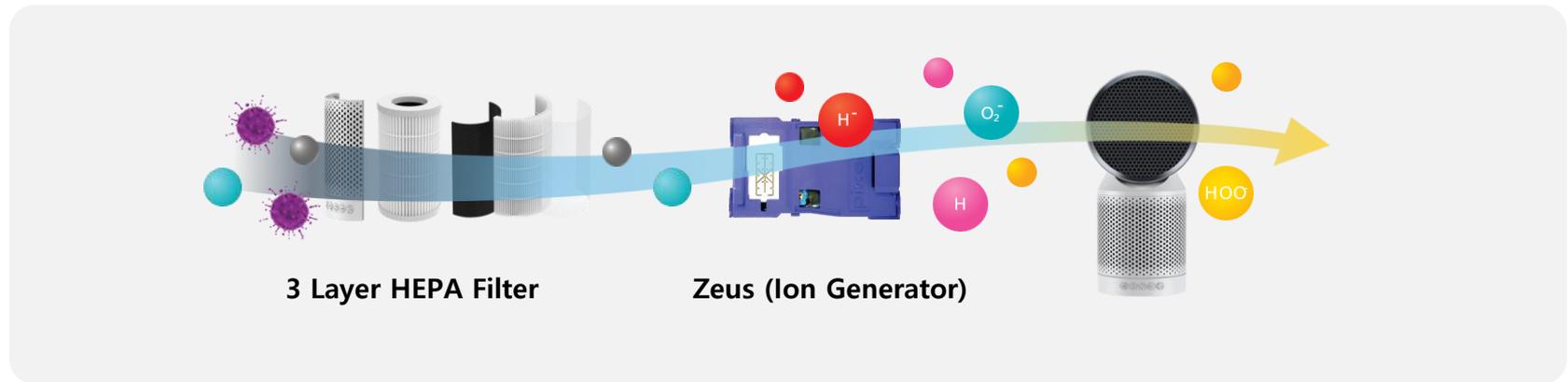
- Zeus
- Plasma Method
- (+)(-) Ions are generated
- Nontoxic

## Antibacterial purifier

- Antibacterial, eradication
- Clean air
- Deodorization



# Clean Antibacterial process



## Application

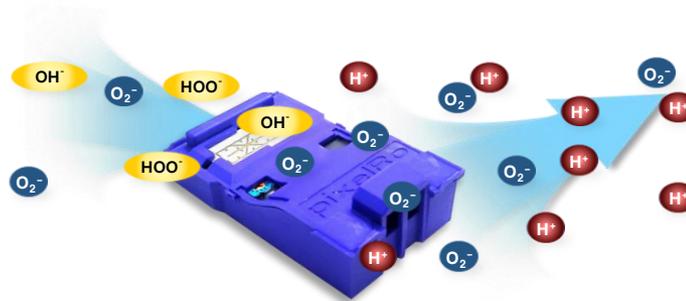
**It changes the smelly space into clean and purified air for your better life.**

- A baby room
- Kitchen
- Bathroom
- Office/School/Church
- Public Places
- Smoking Area



# How does Zeus work?

The ion generator uses micro plasma discharge to generate hydrogen atoms(H) and oxygen ions(O<sub>2</sub><sup>-</sup>).



## ■ Pin electrode(-electrode)

High-voltage electric discharge emits electrons and forms hydrogen atoms and negatively charged oxygen ions.



## ■ Positive electrode(+electrode)

Micro plasma discharge splits water molecules in the air and forms positively charged hydrogen atoms(H<sup>+</sup>)

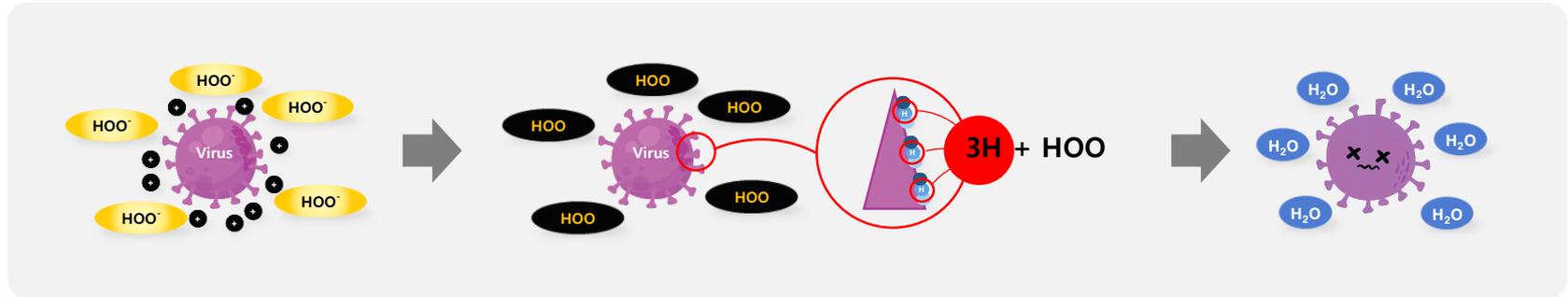


## ■ Hydrogen atoms(H) and oxygen ions(O<sub>2</sub><sup>-</sup>) combine to form hydroperoxyl radicals(HOO<sup>-</sup>)

H<sup>+</sup> : Positively charged hydrogen ion  
H : Active hydrogen

O<sub>2</sub><sup>-</sup> : Oxygen (-) ion  
HOO· : Hydroperoxyl radical

# Virus, Bacteria, Mold eradication Mechanism



Hydroperoxy radicals (HOO<sup>-</sup>) surround pollutants (viruses, bacteria, molds, etc.) floating in the air.



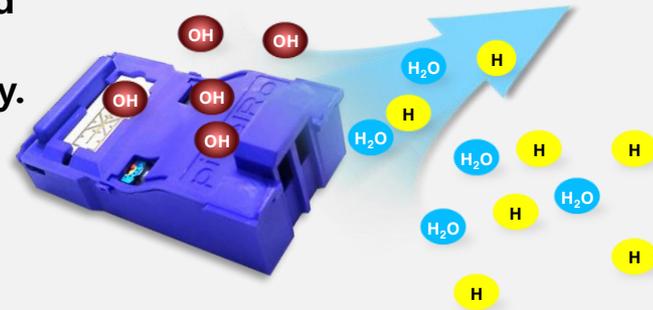
Hydrogen bonds in the protein structure on the surface of microorganisms react with hydroperoxy radicals (HOO<sup>-</sup>) to destroy hydrogen bonds.



Hydroperoxy radicals (HOO<sup>-</sup>), which react with hydrogen in the protein component on the surface of the virus, are pollinated and returned to the air, and the virus is sterilized by surface cracks.

# OH-radial Neutralization Mechanism

The activated active hydrogen (H) is combined with active oxygen (OH-radical) with strong toxicity and oxidation power in the air to neutralize and deodorize so as to be harmless to the human body.



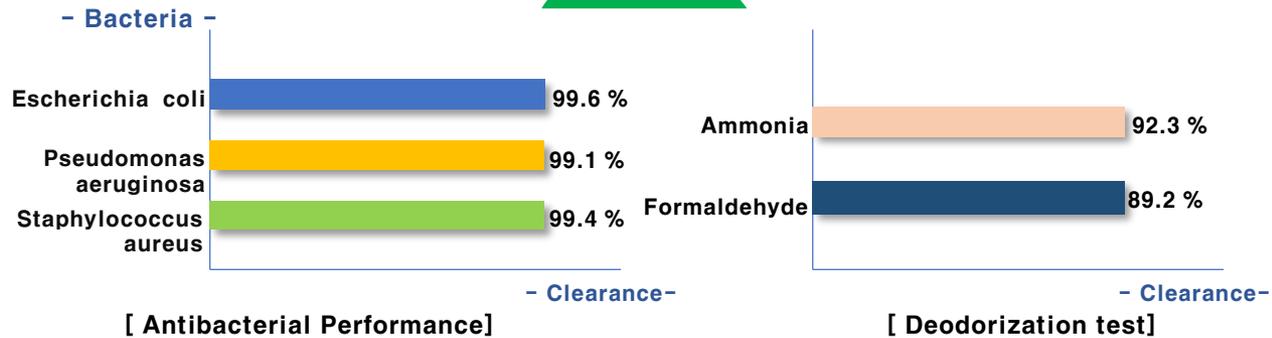
- Active hydrogen (H) generated in Zeus reacts with active oxygen (OH-radical) to be bonded to a moisture state, thereby reducing active oxygen in the air.

## 👁 OH-radical ?

It is the strongest oxidative substance among active oxygen, causing skin aging and skin diseases, and is a compound produced by reacting with harmful substances in volatile organic compounds (VOCs) in the air.

# Deodorizer Antibacterial Performance.

The 5 major harmful gases test is over.



# Excellence

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**Excellent deodorization and eradication technology to remove harmful substances from the air by generating active hydrogen for the first time in Korea.**

<b>Eliminates allergens</b>	<b>The negative ions released and the positive allergens bond as they bear opposite charges. After bonding these particles become too heavy to remain air borne, consequently these harmful airborne particles settle down on the grounded plates that can be cleaned easily</b>
<b>Safe in humans</b>	<b>Unlike other ionizers using high voltage produced type, it generates less Ozone quantity by using Dielectric barrier discharge(DBD) type.( lower than 20ppb)</b>
<b>Deodorization</b>	<b>Electronic air deodorizing systems by generation of plasma discharge effect, Small microorganisms and VOCs are filtered from air by using electrons and reactive species produced by dielectric barrier discharge</b>
<b>Air Purification</b>	<b>There are 3 stage filtration system, Pre-Filter, HEPA Filter, Activated Carbon Filter. It filters air pollution of PM2.5.</b>

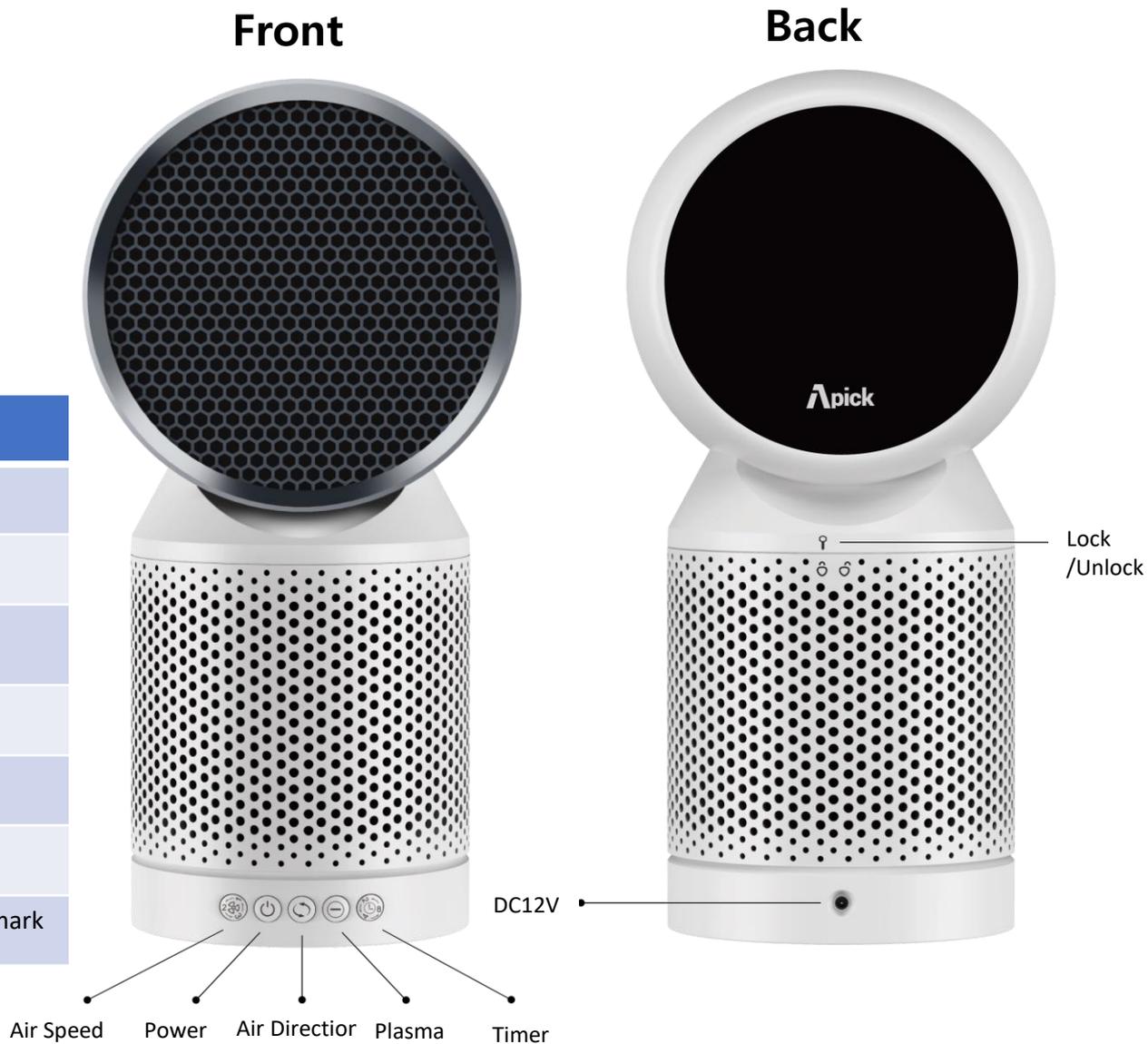
# Specification



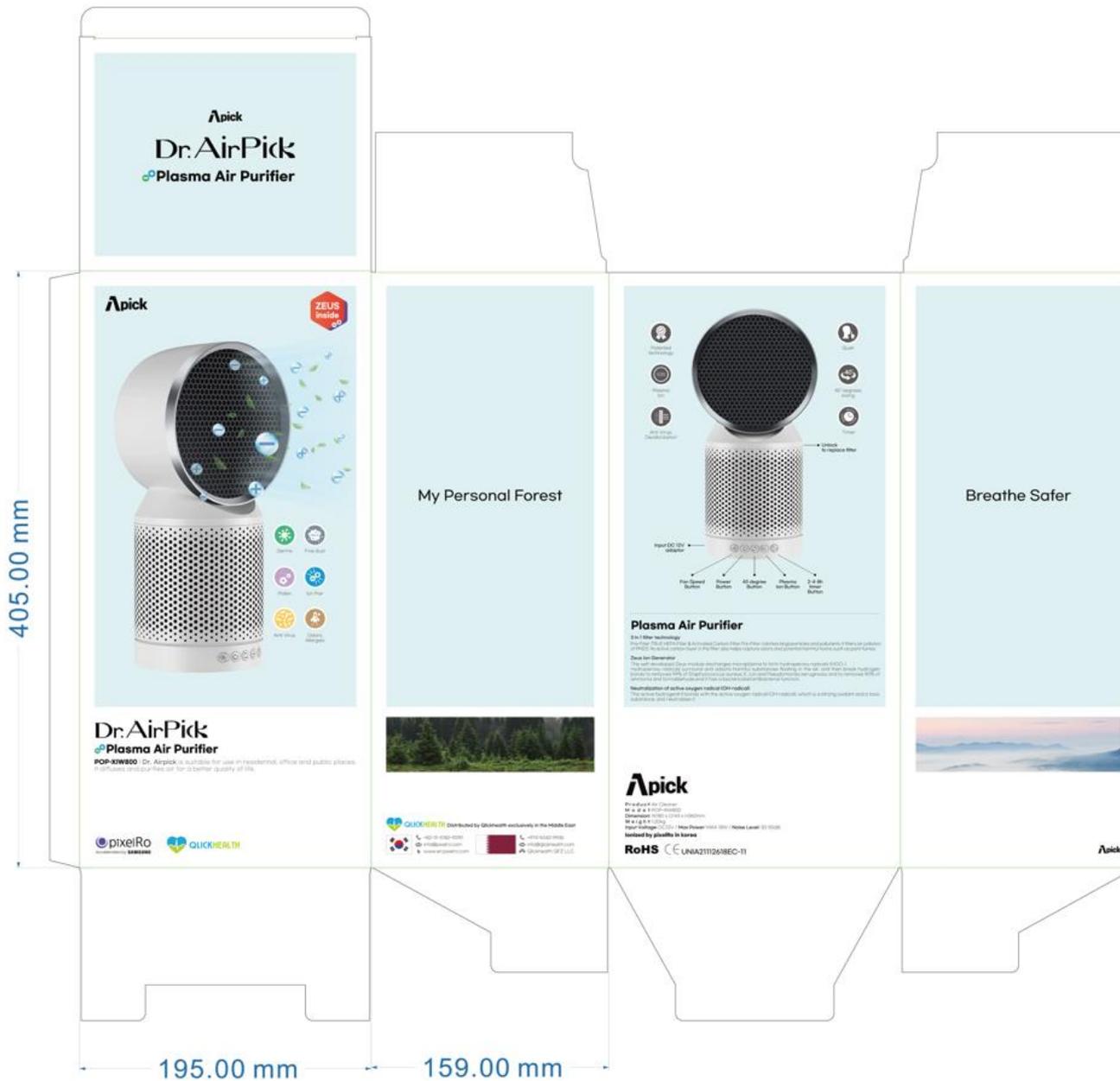
Model No.	POP-XIW800	POP-XIW500
Input Voltage	110V / 220V AC adaptor (12V DC out )	Micro USB (5V DC out )
Power Consumption	Max 18W	Max 3W
Color	White	White
Ion Generation	Ion > 2 million/cc	Ion > 2 million/cc
Ozone	Ozone quantity ≤ 20 [ppb]	Ozone quantity ≤ 20 [ppb]
Dimension(W x D x H)	180 X 143 X 360 [mm]	80 X 105 X 335 [mm]
Weight	< 1.2 [kg]	< 0.8 [kg]
Noise	30 ~ 50 dB	28 ~35 dB
Area	27 m <sup>2</sup>	17 m <sup>2</sup>
Certification	KC,CE	KC,CE

# Button/Appearance

No.	Button	Action
1	Air Speed	Control Air speed
2	Power	Power On/Off
3	Air Direction	Control Air Direction( $\pm 45$ degree)
4	Plasma	Ion Generator On/Off
5	Timer	2-4-8h Timer
6	DC12V	Adaptor In
7	Lock/Unlock	Head part, lock/unlock mark



# Package



# Thank You !!

