

Extraoral Suction



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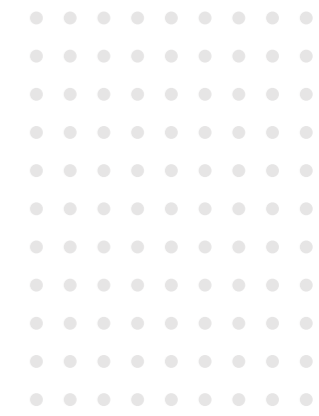
Silence Series

INNOVATIVE DUST COLLECTOR
QUIET DUST COLLECTOR

CERTIFICATIONS



KO-MAX
Value for the Future



Ko-max Co.,Ltd. a specialized suction instrument development and manufacturing firm founded in 2014,makes every endeavor to produce a suction instrument of powerful sucking force, low noise and convenient UI.

Beginning export to japan in 2016 gaining its world class performance and quality, it is securing a global net work through aggressive export. Accordingly, Ko-max was awarded with a One-Million-Dollar Export Monument Award from S. Korean President Moon Jea-in, in 2017 and in 2020, komax achieved more than 3 million dollars in exports. .

Ko-max desires people throughout the world open a better future through our products. We will be more industrious to get trust keeping to a principle.

KO-MAX History

Extraoral Vacuum Suction Aerosol Vacuum Suction Silence-A200

- Developed an extraoral Vacuum suction in 1994
- Released Silence-A200 in 2020
- Low noise, UV&Plasma, ULPA filter



Silence-A200

Silence-A200 belongs to the extraoral vacuum suction series. It is a device that minimizes contamination of indoor air by sucking in aerosol particles or small water drops when using a high speed handpiece or doing scaling. It also comes with a sterilization function. It is equipped with a noise silencer.

SPECIFICATIONS

Description : Dental extraoral vacuum suction

Materials : ABS,PP, PETG, Aluminum

Power supply : Single phase AC 220V~240V 50~60Hz
Single phase AC 100V~120V 50~60Hz

Output power : 1247W[120V], 1251W[230V]

Current(A) : 120V[10A], 230V[5.2A]

Air flow : 3.98m³/min[HEPA], 3.74m³/min[ULPA]

Air pressure : 23.7kpa[230V], 25.2kpa[120V]

Control mode : step 1~9

Filter : 1st filter[Medium filter]

2nd filter[ULPA filter] 99.9995%[U15]

3rd filter[Carbon filter], 4th filter[Noise block]

Noise level : approx.45~65dB

Motor operating temperature : 0~40°C

Arm length(A type) : 1,600mm

Arm weight : approx.1.3kg

Body size : 295[W] *330[D]*845[H]mm

Body weight : approx.13.5kg

Product components(A type): Main body, 3 joint arm, power cord, 4 kinds of filters,
O hood & Aluminum hood, 1st spare filter,
Plasma ionizer, UV LED lamp

Accessories : L Cap, U Cap, Remote controller



Extraoral Vacuum Suction Aerosol Vacuum Suction Silence-A100

- Developed an extraoral Vacuum suction in 1994
- Released Silence-A100 in 2020
- Low noise, UV&Plasma, ULPA filter



Silence-A100

Silence-A100 belongs to the extraoral vacuum suction series. It is a device that minimizes contamination of indoor air by sucking in aerosol particles or small water drops when using a high speed handpiece or doing scaling. It also comes with a sterilization function. It is equipped with a noise silencer.

SPECIFICATIONS

Description : Dental extraoral vacuum suction

Materials : ABS,PP, PETG, Aluminum

Power supply : Single phase AC 220V~240V 50~60Hz
Single phase AC 100V~120V 50~60Hz

Output power : 1247W[120V], 1251W[230V]

Current(A) : 120V[10A], 230V[5.2A]

Air flow : 3.98m³/min[HEPA], 3.74m³/min[ULPA]

Air pressure : 23.7kpa[230V], 25.2kpa[120V]

Control mode : step 1~9

Filter : 1st filter[Medium filter]

2nd filter[ULPA filter] 99.9995%[U15]

3rd filter[Carbon filter], 4th filter[Noise block]

Noise level : approx.45~65dB

Motor operating temperature : 0~40°C

Arm length(A type) : 1,600mm

Arm weight : approx.1.3kg

Body size : 295[W]*330[D]*635[H]mm

Body weight : approx.11kg

Product components(A type): Main body, 3 joint arm, power cord, 4 kinds of filters,
O hood & Aluminum hood, 1st spare filter,
Plasma ionizer, UV LED lamp

Accessories : L Cap, U Cap , Remote controller



[Extraoral suction]

When using a high speed handpiece or doing scaling, a lot of moisture, smog and aerosol particles are generated. Do you know how many aerosol particles contaminate the room?

Aerosol particles adhere to the bodies of dentists or hygienist during treatment. Also, aerosol particles can contaminate the air conditioners, and it affects the respiratory systems of the patients.

Aerosol particles are very dangerous because they contain blood, saliva, viruses and other foreign substances.

It can be dangerous if an extraoral suction is not used.

There is a very big difference between using and not using an extraoral suction. During treatment, microscopic water drops fly away in the form of aerosol particles.

Make the change, for the health of doctors, hygienists and patients.

Silence-A/H suck in moisture, smog and aerosol particles with its powerful suction power to create a clean and pleasant treatment room, and keep it that way.

[Various extraoral suction]

Komax manufactures a variety of extraoral suction products. We currently manufacture mobile types such as Silence-A100, Silence-A200, Silence-H100, Silence-H200, and so on.

[Super filtering system]

The 1st filter (Medium filter) filters out contaminants and moisture. The 2nd filter, super bio filter (ULPA) catches various viruses or ultra fine dusts. Its filtration efficiency is 99.9995%(U15). The 3rd filter purifies the air before emitting it out into the room.

[Plasma ionizer & UVC LED lamps]

Equipped with a safe and certified plasma ionizer to meet customer needs, it kills viruses. In addition, it is equipped with a durable UVC LED lamps for medical use to eliminate viruses and harmful foreign substances.

[3 joint arm - A100, A200 model]

The 3 joint arm consists of three-stage joints for user convenience. It is possible to rotate the arm or adjust the position of the arm for the doctor's convenience during treatment. Also, various suction hoods can be used depending on the type of treatment.

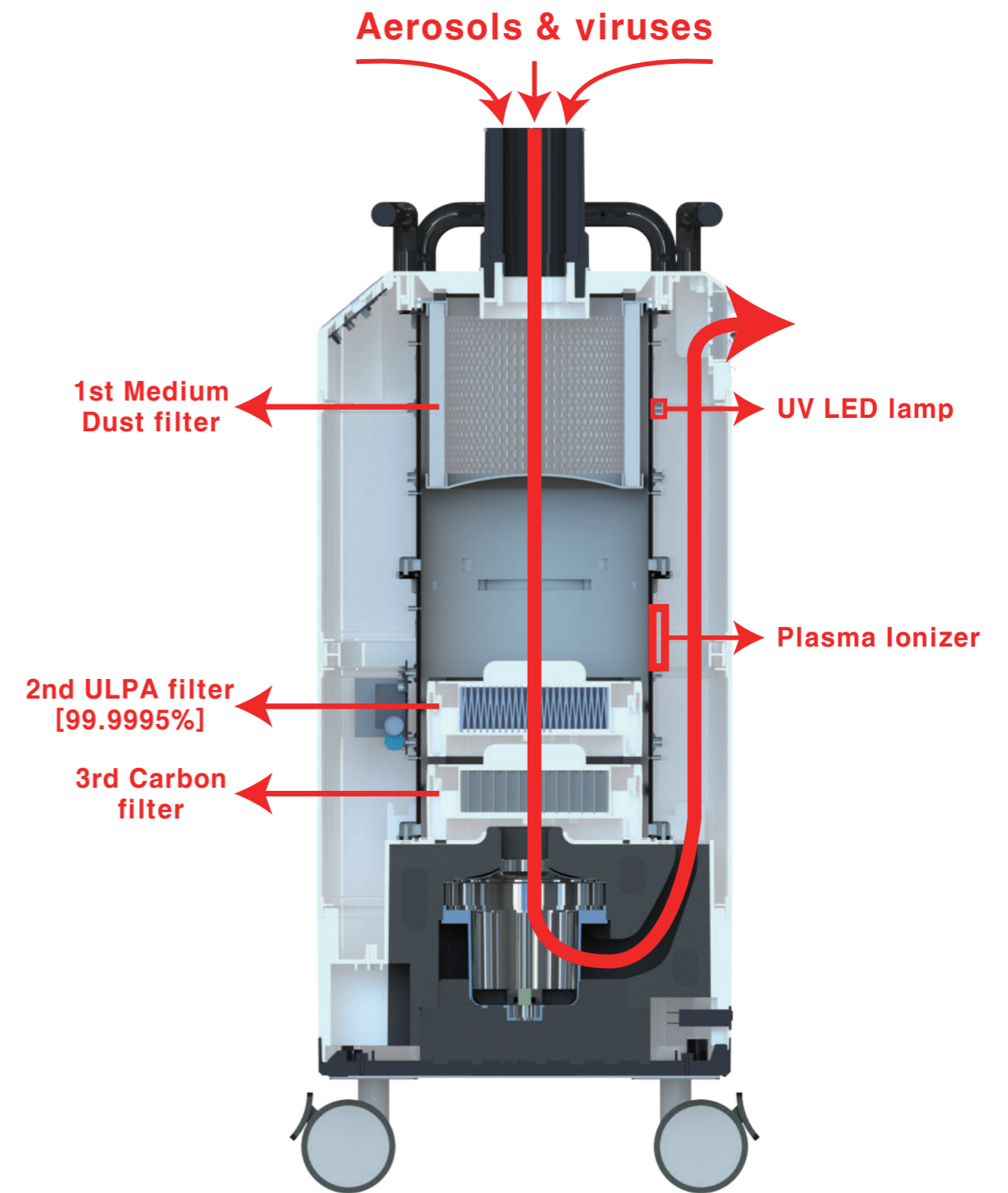
[Noise silencer]

Silence-A/H are equipped with a noise silencer inside the suction for a comfortable treatment room

[Medical caster]

Silence-A/H are equipped with an advanced medical casters for the user to move it freely and conveniently

Silence principle



[Cross-section]

Silence-A/H100,200 Virus Sterilization Care System



UV LED

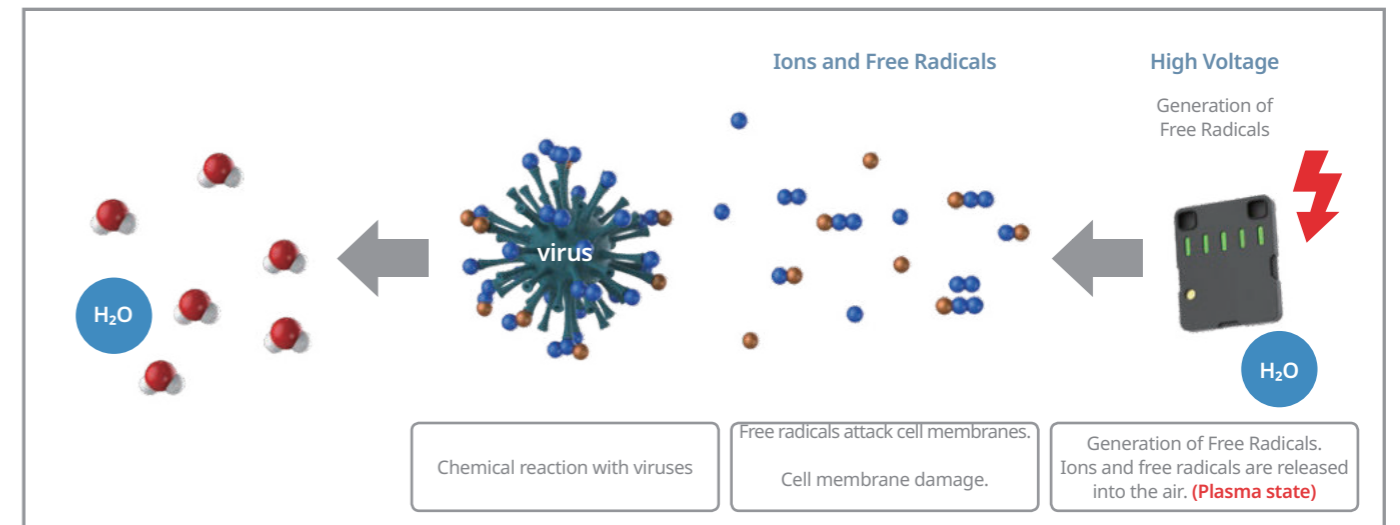
Plasma

ULPA filter

Extraoral Vacuum Suction

Plasma Sterilization Principle

Basic Principle

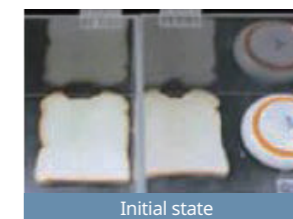


- When the airborne water molecules are decomposed by applying a high low pressure on the positive and negative sides, the water molecules (H_2O) are decomposed into H^+ and anion OH^- .
- The highly reactive Free Radical (OH^- , OH , HOO -etc) is adsorbed in the air by harmful substances such as viruses, germs, and fungi, and the electrons are removed to return to the water molecules to remove harmful substances.

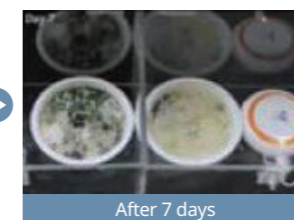
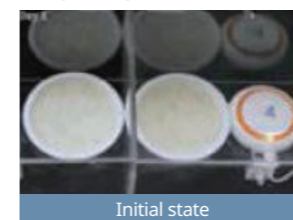
Cigarette smoke removal test



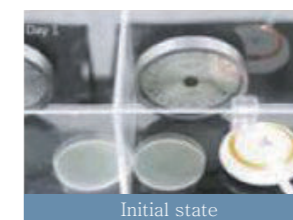
Fungi comparison test



Fungi comparison test



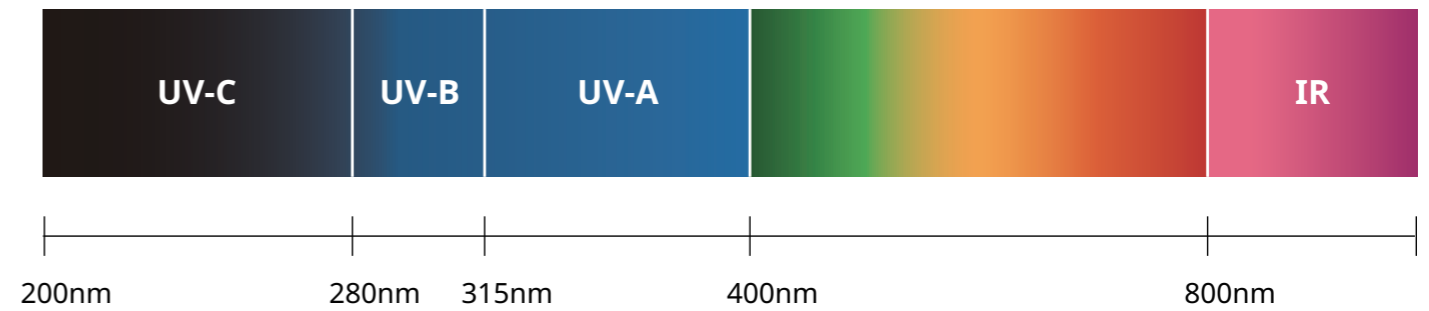
E-coli culture test



Plasma Test Report

	Contamination Source	Effect	Verified by
Anti-viral	Influenza A virus (H1N1)	99.2% removal	Kitasato Univ. (Japan)
	Feline calicivirus	97.2% removal	
	H5N1 Influenza A subtype	99.9% removal	
	H7N9 Avian Influenza	99.9% removal	Microbiotest (USA)
	Human coronavirus * Similar to SARS & MERS	99.9% removal	
	Zika virus	99.9% removal	
Anti-bacterial	E-coli	99.8% removal	Korea Conformity Laboratories (KCL)
	Bacillus pyocyaneu	99.8% removal	
	Staphylococcus aureus	99.9% removal	
Anti-odor	Ammonia (NH3)	100% removal	
	Toluene	100% removal	
	Benzine	100% removal	
	Formaldehyde	100% removal	
	Sulfur dioxide	99.5% removal	
	Nitrogen oxide	99.5% removal	
Completeness	Level of ozone generation	Under recommended indoor standards	Korea Institute of Machinery and Materials (KIMM)
	Inhalation toxicity	Safe (Test animals analyzed after inhaling for 4 weeks)	ChemOn Non-Clinical Research Institute

UV LED Sterile Field



Industrial

Sterilization	UV curing (Hardening / exposure / adherence)	UV-A Curing machine, exposure machine, large printer
		UV-C Industrial water treatment

Domestic

Water cleaning, purification	Photocatalytic sterilization	UV-A Refrigerators, air-conditioners
		UV-C Water purifiers, humidifiers

Medical / sensor

Sensor	Tanning	UV-A Tanning machines
Medical		UV-B Skin disease treatment (vitiligo, psoriasis, atopic dermatitis)
Analytical equipment		UV-C Exhaust gas sensor

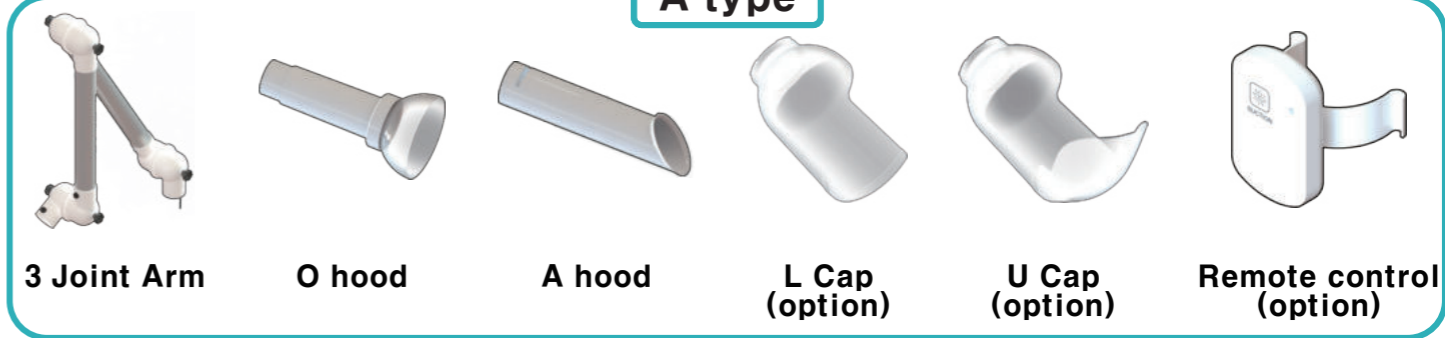
Plasma Specification

Sortation	Content
Input voltage	12V
Current consumption	28mA
Power consumption	0.4W
Output power	~5.5KW
Ionic generation	(+) Ion > 1million/cc, (-) Ion > 1million/cc
Ozone generation	0.002ppm (Indoor Recommendation Standards 0.06ppm/cc)
Manufacturing country	Made in Korea

UV LED Specification [UV-C]

Sortation	Content
Input voltage	12V
Current consumption	40mA
Power consumption	0.48W
Wavelength	280nm
Luminous intensity	400mcd
Manufacturing country	Made in Korea

A type



H type

