Aero Breath Product Instruction



"Start of new experience for breathing"

It's the time to start new experience with wearable face mask-type air purifier "Aero Breath"

Disposable face mask causes uncomfortable using experiences, high social cost and environmental pollution.

Aero Breath which has Long life-filter and positive pressure fans

resolves all those problems.

CALAB

It was developed for these people

People who want comfortable breathing when they work out

People who want definite block harmful substances from out door

People who want cost-effectiveness and simple maintenance

People who want to use hygienic product

Now, with CALAB Aero Breath simply resolves.



What is Aero Breath?

It is wearable face mask-type air purifier for a new changing of breathing.

More about Aero Breath

01 Dust Collection/Purification

Block ultrafine particles at 0.3 µm level maximum 99.99%,

and remove harmful gas and odor.

Besides, eliminate bacteria(suspended pneumoniae maximum 99.99%)



Only one filter can **remove 99.99%** ultrafine dust, bacteria and virus











Fine dust remove

Bacteria remove

Carbon dioxide remove

harmful gas remove

Ultrafine dust remove



Blocking Harmful Substances Entering Respiratory Inflow



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Ultrafine Particle TEST

시 한 성 적 시 		FLOW	RESISTANCE	PENETRATION	DUST COLLECTION EFFEICIENCY(%)
	1	32.0	8.1	0.014	99.99%
	2	32.0	8.1	0.018	99.98%
An-Angel State Sta	3	32.0	8.7	0.004	99.99%

Remove maximum 99.99% 0.3µm particle which is Much smaller than Ultrafine dust(PM2.5, <2.5µm)

Harmful gas / Deodorization TEST

FiQI		#1
	Acetic acid	99.9 exceeded
R. Backet Aucket (1) August Aucket all (1) Bar Research and a second	Formaldehyde	64.7
	Acetaldehyde	96.4

Remove over 99% Acetic acid and stench from outside

Harmful Bacteria TEST

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• Test result

CFU	Colony Forming Unit		
Test strains	Klebsiella pneumoniae ATCC 4352(harmful pneumonia)		
Chamber size	8m²		
Operating time	1hour		
Result value concentration	Feller Conversion Table apply		
Client proposal condition	ISO 16000-36:2018 (but, product operating time : 1hour)		

Harmful streptococcus pneumoniae



N						
3	Test Items Test method		Concentration before uptime	Concentration after uptime	Reduction rate (%)	Test environment
	Microorganism reduction test (pneumonia)	Client proposal	2.7 x 104	< 10	99.9%	(23.0 ± 0.2) ℃ (50.5 ± 2.0) % R.H.

Remove harmful streptococcus pneumoniae floating in air 99.9%



Charger Cradle Sterilization Test



(CFU	Colony Forming Unit	
Tested vi	rus category	Escherichia coli ATCC 25922	
Sa	mple	Product : [UV-C LED 3.0]	
Client proposal method		Measure bacterial reduction rate after exposing the inoculated of 4cm from the LED lamp for 100 seconds	at a distance

• Test result

Test category		-				
		Test method	Initial concentration (CFU/mL)	100sec after concentration (CFU/mL)	Reduction rate (%)	Test environment
BLANK		Client	1.7 x 104	1.7 x 104	-	(37.0 ± 0.1) ℃
test by E. coli	UV-C LED 3.0	proposal	1.7 x 104	< 10	99.9%	(33.5 ± 0.2) % R.H.

Remove 99.9% the E.coli from outside contact by LED lamp



02 Safety

We cooperate with companies which have remarkable technical skills each field in Korea, United states, and China



Produce through proven parts and manufacturing facilities at domestic and abroad

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Medical using Level Silicon TEST



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Heavy metal/Frame retardant/ phthalate/ Halogen compounds





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03 Technical Skills

Many patents which are technology-intensive designed based on engineering experience and user-centered designed considering usage environment.

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Aero Breath 4 core functions



Independent purity space Offer own purity air wherever you go by blocking Fine dust and harmful gas



Longer term filter

3Months available filter by large area designed



Pleasant breathing environment

Offer comfortable breathing as if not wearing mask with High-performance fan



Sterilization wireless charging

UV-C LED mask sterilization through cradle when you charge Low-noise Design even using in the Library



Reduce noise through High-performance fan and low pressure drop

Multi Function Holder





Remove 99.9% surface bacteria and inside humidity automatically through Wireless charging cradle, UV-C sterilization and dry and offer hygienic environment. Offer Comfortable Breathing for Hard Exercise



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Offer 100L /min air enough even for hard exercise through lowering respiratory resistance by U.S Delta high-performance BLCD fan and optimized large area filter structural design.

Aero Breath Technology



Through the high efficiency filter, block the ultra fine dust, harmful gas, bacterial aerosol and stench in the air Lower the respiratory resistance by highperformance BLDC fan

Primarily prevent the sp of droplet by chamber type silicon structure

Block one more time the **uncaptured smaller droplet** at the silicon by special rib

Patent Possession



The production of CALAB 's function which blocks highly ultra fine dust smaller than 0.3µm,harmful gas and floating bacteria has been proved officially and based on various patents and intellectual property

04 Economic Efficiency

A single replacement filter can be used for up to 100days, allowing clean air to be inhaled at a more economical cost

Maintenance Cost Save





Long filter life term can save the cost of maintenance

A replacement filter can be used for up to 100days clean air to be inhale at much more economical cost

05 Convenience

Everyone can use it easily by simple instruction like putting in a filter and pressing a button 99% Convenience, 1% Manage



Keep hygienic Automatically dry and sterilization through charger cradle



02

01

If precise cleaning is required, remove the screws in the respiratory part and clean with water

03



Cosmetics and substance can be cleaned by wet tissue simply

Comfortable Replacement-type Band Structure!



Only 10 seconds, anyone can replace easily and quickly And offer two types bands which **minimize head pressure** and **disperse the weight load**



Anyone Easily and Quickly!



Turn the filter counterclockwise

Raise the filter and remove

Put the new filter in. Turn the filter clockwise and fasten



Anyone can replace the filter quickly

the gap completely blocked, the fine dust can not be in from outside the air only be in through the complete compression structure filter.

Product Specification





Product	Aero Breath
Model name	CAL-AS-201907001
Color	Black, White
Size	157x69x126mm)
	*except filter.
Weight	155g
Filter function	H13 Grade (>99.95%)
Material	ABS + Silicon(Medical Grade)
Origin	South Korea
Manufacturer/sales	CALAB corporation
Warranty period	12months

Xit could be 1cm-2cm error depends on measurement.

Product Composition



THANK YOU!

CALAB

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