

Puresys

Headquarters and Research Institute

C2114, 2115 KAIST, 193 Munji-ro, Yuseong-gu, Daejeon, Republic of Korea. 34051

Factory1

32-10, Techno 7-ro, Yuseong-gu, Daejeon, Republic of Korea.

Tel, 82-(0)42-863-0275 **Fax**, 82-(0)42-863-3531 **E-mail**, puresys@nate.com













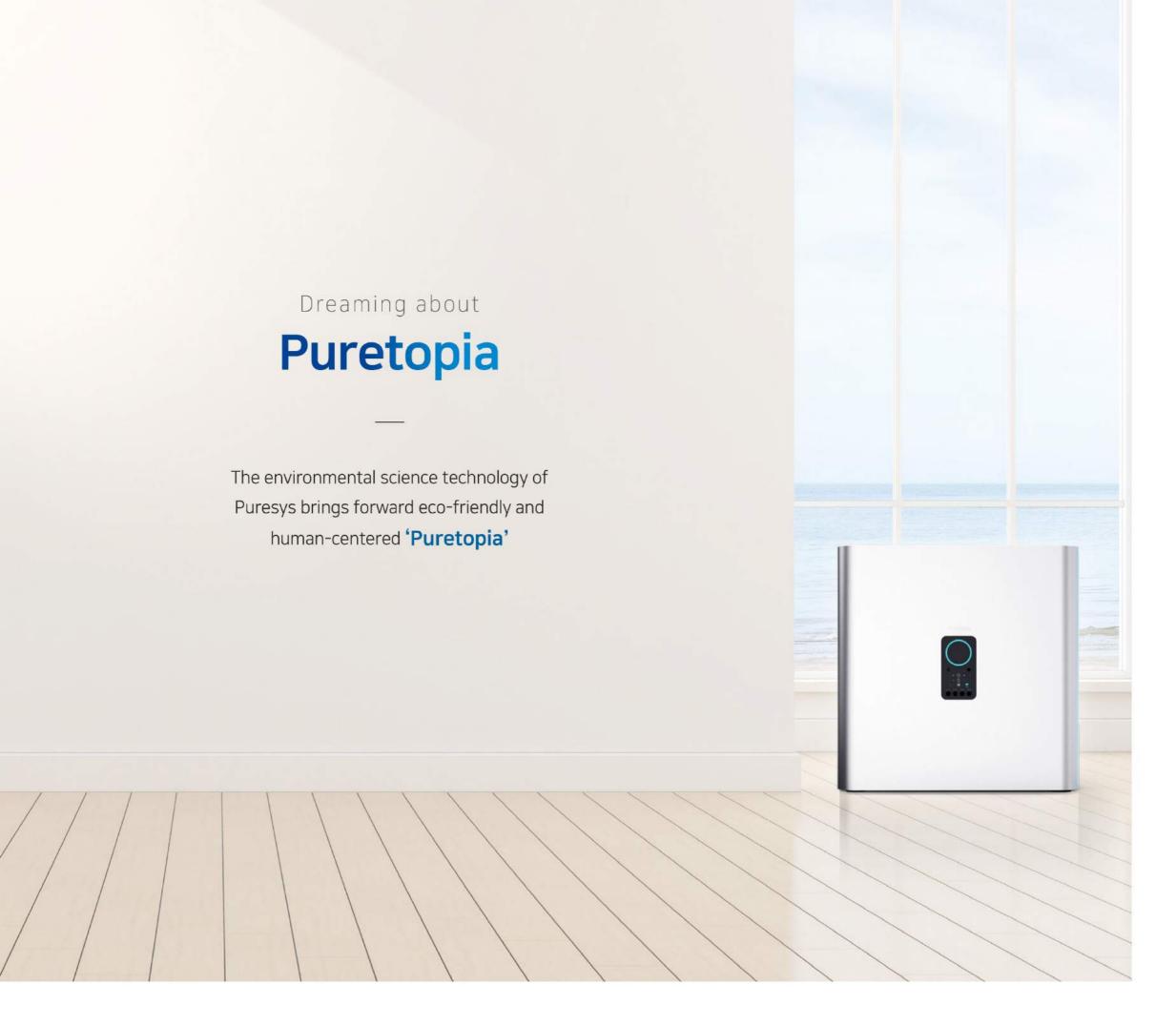






Puresys





Contents

Introduction(about us) & Overview	04
Company History	04
Brand Story	06
Composition & Business	07
Special Features of Product	08
Product Introduction	12
National delivery & Installation status	16
Patents & Certificates	18

Introduction(about us) & Overview

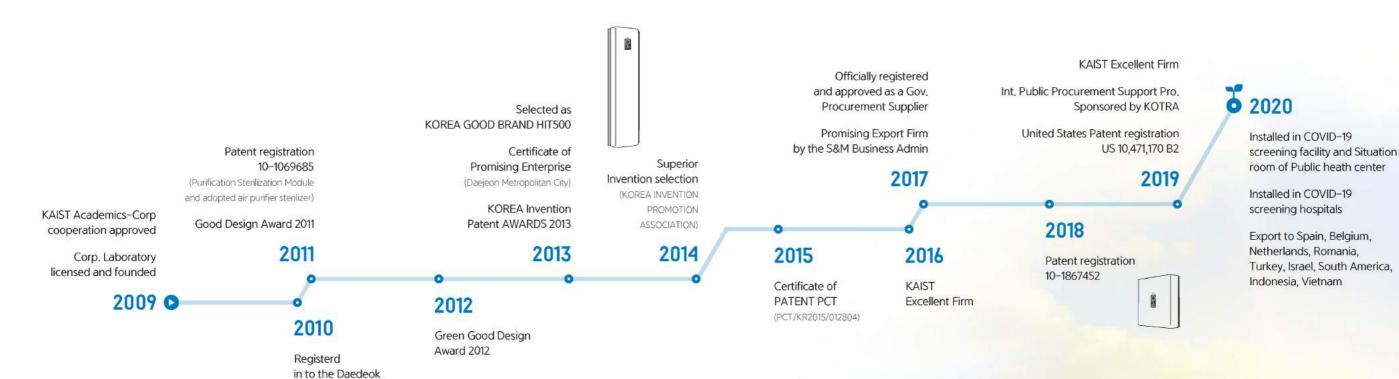
Free from bacteria and Virus!

PURESYS Co., Ltd. deeply researches and develops new air purification technology and sterilization materials by using KAIST's state-of-the-art equipment and excellent research infrastructure based on the proven performance and safety of Korean science and technology. And It is the new technology R&D company based on this source science and technology, which aspires for improving human-centered environment called 'Puretopia'.

Puretopia is a compound word of pure and utopia, which means the ideal world that protects against contaminants, such as micro dust, harmful germs etc. for future people who want a clean environment.

INNOPOLIS

Company History



After the pandemic, not only the micro dust, but also the virus outbreak is impacting our daily lives. In particular, caring for children, elderly people and sufferers from respiratory diseases who cannot be free from the micro dust has become more demanding and complicated. Additionally, the fear of virus has been unexpectedly affecting our daily life and even lifestyle needs changes.

Pursys, as air purification sterilization that opens new horizons of air purification catching bacteria, viruses, harmful gases and ozone! You can now enjoy the benefits of this function not only in hospitals and labs but daily life.

Now, PURESYS is trying to provide a clean, happy and clean utopia 'puretopia' that would be from micro dust and viruses for mothers, children and everyone with air purification technology like magic.

'PURESYS' CI represents

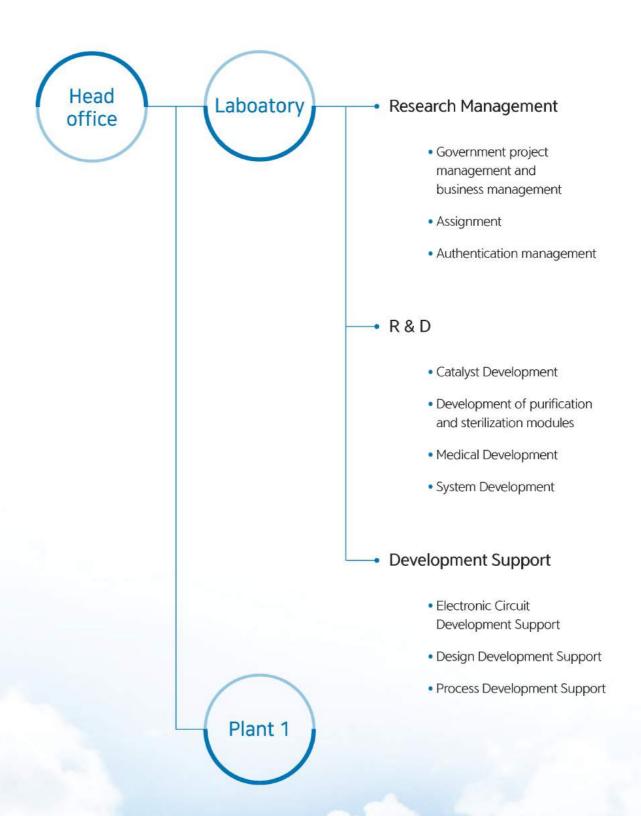
The corporate philosophy seeking purity and cleaner environment.

Puresys

The blue wave gradation as the motif of clean air flow and circulation showcases its product concept and the environment that PURESYS envisions.

Puresys Private Color





Special Features of Product

Puresys' Air Magic System. We protect your rights to have clean air!

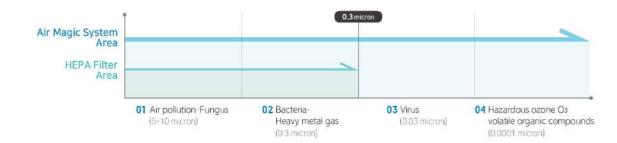
The fundamentals of Air Magic System

Special catalized (based on TiO2, MnO2) coating on metal foam. (Isotropic structure to maximize the contact surface with viruses, bacteria and harmful gases in the air)

- Electrochemical chain catalyzed reactions by UV-light irradiation.
- Removes bacteria and viruses, harmful gases and odor substances, and ozone.

Puresys' innovative purification and sterilization technology

- Puresys uses H13-rated, highly efficient HEPA filters that have been rigorously tested.
- Puresys has completed the 14-step Air Magic System that far surpasses the limits of a general air purifier with only a HEPA filter, because only HEPA filters cannot remove harmful gases, viruses, and bacteria less than
- Puresys air sterilization purifier perfectly removes all kinds of harmful substances such as fine and ultra-fine particle, harmful gases and odors, bacteria, viruses, and ozone.





Fine dust (PM10, PM2,5) containing air pollutants such as nitrogen oxides, sulfur dioxide, carbon monoxide and lead, causing asthma, respiratory and skin diseases



Bio

A germ that replicates on other airborne particles and is affected by air movement, and Causes high aerosols fever, cough, dermatitis, bronchitis, atopy, hypersensitivity, respiratory disease, infectious disease, etc.



Dozens of toxic gases such as ammonia, formaldehyde, acetaldehyde, acetic acid, toluene and volatile organic compounds (VOCs), which cause headaches, cancer, and increase the mortality rate of infants and the elderly.



A toxic, ultra-fine size infectious particle that replicates and destroys only inside the living cells of other organism and causes disease,



Being formed from that ultraviolet rays cause chemical reactions between oxides of nitrogen(NOX) and Volatile Organic Compounds (VOC) in the atmosphere, Due to powerful oxidation, it irritates eyes and skin, and if overexposed, it develops chronic respiratory diseases and asthma and emphysema worsen. The more the ozone level increases by 0,01ppm, the more the risk of death per day increases by 1% and the risk of atopy increases by 6,1%.

Air sterilization purifier Puresys, Purify the air through 14steps like a magic!

3stage of perfectly purifying air

Fine dust removal phase of physical filter

Step 1 Washable PRE Filter

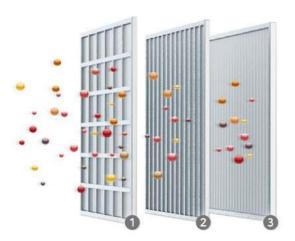
Filters out large particles such as large dust, hair, pet hair, dust, and pollen.

Step 2 Carbon Filter

> Removes cigarette smoke, odors from bathroom, trash, pet and food.

Step 3 HEPA Filter

Removes particles larger than 0,3 microns in size, such as fine dust (PM10, PM2.5) or fungi,



11stage of chain reaction of sterilization, deodorization and decomposing toxic gases

Photochemical catalyst chain decomposition and removal step of a tight structure



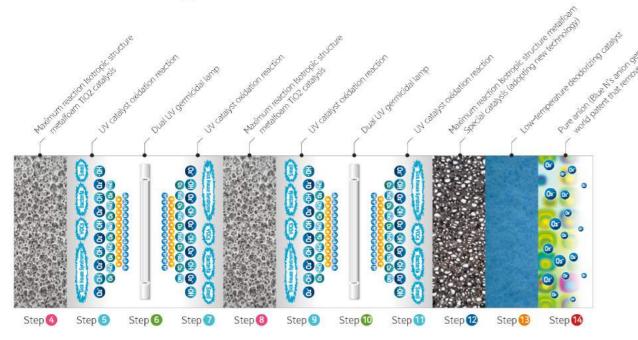


Special Features of Product

Performance certification for all three categories of sterilization, deodorization and cleanliness

National Institute of Industrial Technology(KTL) test.

Puresys' special catalyst completely removes even ozone and then converts it into oxygen!



Step 4⋅8

Self-sterilizing antibacterial, blocking electromagnetic waves, removing allergens, toxic chemical gases and unpleasant odors.

Step 5.7.9.11

Sterilization, decomposition of organic compounds and toxic gases, deodorization with maximum oxidizing power through high-efficiency photocatalytic reaction under ultraviolet rays.

Step 6⋅10

Sterilizes pathogenic microorganisms.

Step 12

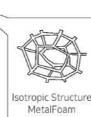
Removes Ozone, carbon monoxide, formaldehyde, nitrogen oxides, EO gas.

Step 13

Pure oxygen ions provides pleasant air and boosting immune system by deodorizing every indoor air.

Step 14

Additional deodorization function of low temperature catalyst filter. (Chain deodorization, purification steps)



Report No. 13. - 40. - 4

Bacteria decreasing rates (measured after 60minutes at 60m)

The removal rate of Bioaerosols that float on the dust in the air and multiply on their own and adversely affect our health is unachievable with a regular air purifier.

				page of 7 pag
	3	Test Resi	ult :	
t 3 Year Plan				
	- Senty	Se ferred St	tries (%)	
	\$5.000	W mt	E 10	120.00
Annella	36	24	*	- 10
Name in last	4	79.	15	.10
Aure Ace	ir.	36	-	
Triane	199	100	160	169
Tacresteriorie	100	86	- 80	311
2 Tool Av 3 1 House AL W C House Buy A C See Sout 1 His	- 1/61 - 30e		en je racinski I Dominijani Pa	
() for the				
I I fee Can			turns (sec.)	III e 16

Toxic gases removal rates (measured after 120minutes at 8m²)

It removes 98% of various toxic gases and odor substances in the air, such as formaldehyde, tobacco smoke, and volatile organic compounds, which are the main culprit of sick house syndrome,

98%

- Remove more than 96% of ammonia
- Remove more than 97% of formaldehyde
- Remove more than 99% of acetate
- Remove 100% of toluene



HEPA filters(H13)
99.7% Efficiency Particulate
Arrestance (remove
particles with triple filter)

- Remove 99,638% of 0.3-micrometer particles
- Remove 99,727% of 0.35-micrometer particles
- Remove 99,78% of 0.4-micrometer particles



Viruses decreasing rates (measured after 30minutes at 60m)

Terrible Viruses attaching to other organism, propagating, destroying cells and causing disease! Pursys got great test report like no other.



Ozone emission rates (measured after 120minutes at 30m)

 Background average for 30minutes before test: 0.000ppm

24 hour maximum : 0ppm

24 hour average : 0ppm

Product Introduction

High-tech science meets world-class design - Puresys Product Line-up

Along with perfect performance, the simple and elegant design of the world-class design company tangerine creates a comfortable environment that goes well together.

Movable type for Individuals

(all-in-one Mobile)

- Patent 10–1069685, 10–1867452, PCT/KR2015/012804
 Cutting-edge metal foam multi-nanocatalyst technology applied
- Ozone generation Oppm, harmful ozone generated from peripheral equipment is converted into oxygen and supplied
- Safe sterilization with stable metal foam structure that maximizes sterilization power
- Complete sterilization through 6stages of multiple purification sterilization
- Removal of total volatile organic compounds (TVOCs),
 Toxic gases, and sick house syndrome
- Powerful deodorizing performance
- Realization of natural aromatherapy supply
- Powerful, low-noise, powerful motor that sends safely and cleanly sterilized air to every corner
- Wash filter design considering maintenance cost
- Emotional LED to easily check the operating status
- Research and development products to improve technology completion (Design by fourNINE)
- European CE certification

Application area	9.9~13.2m² (172 sq ft)
Power	12V DC, 110~220V (Adapter or car cigar jack)
Power consumption	Max. 5W
Size	114(W) x 114(D) x 260(H)mm



Wall or Stand type

(all-in-one 20)

- Patent 10–1069685, 10–1867452, PCT/KR2015/012804
 Cutting-edge metal foam multi-nanocatalyst technology applied
- Ozone generation Oppm, harmful ozone generated from peripheral equipment is converted into oxygen and supplied
- Safe sterilization with stable metal foam structure that maximizes sterilization power
- Complete sterilization through 11stages of multiple purification sterilization
- Removal of total volatile organic compounds (TVOCs),
 Toxic gases, and sick house syndrome
- Powerful deodorizing performance
- Powerful, low-noise, powerful motor that sends safely and cleanly sterilized air to every corner
- Wash filter design considering maintenance cost
- Emotional LED to easily check the operating status
- Selected as GOOD DESIGN and GREEN GOOD DESIGN
- Applying the Aluminum Layered Finish technique to save the stainless texture Luxurious finish that can be used neatly without leaving any handprints
- TotalDesign R&D products in R&D zone (Design by tangerine)
- European CE certification

Application area	66㎡ (710 sq ft)
Power	110~240V AC
Power consumption	Max. 70W
Size	600(W) x 154(D) x 620(H)mm 600(W) x 220(D) x 704(H)mm (Stand)
Identification number of procurement	22316495



Built-in type (all-in-one 30)

- Patent 10–1069685, 10–1867452, PCT/KR2015/012804
 Cutting-edge metal foam multi-nanocatalyst technology applied
- Ozone generation Oppm, harmful ozone generated from peripheral equipment is converted into oxygen and supplied
- Safe sterilization with stable metal foam structure that maximizes sterilization power
- Complete sterilization through 11stages of multiple purification sterilization
- Removal of total volatile organic compounds (TVOCs), Toxic gases, and sick house syndrome
- Powerful deodorizing performance
- Powerful, low-noise, powerful motor that sends safely and cleanly sterilized air to every corner
- Wash filter design considering maintenance cost
- Emotional LED to easily check the operating status
- Applying the Aluminum Layered Finish technique to save the stainless texture Luxurious finish that can be used neatly without leaving any handprints
- Design R&D products (Design by Sconee)
- European CE certification

Application area	66㎡ (176 sq ft)	
Power	110~240V AC	
Power consumption	Max. 70W	
Size	340(W) x 165(D) x 1220(H)mm	
Identification number of procurement	22316496	

Stand type (all-in-one 50)

- Patent 10–1069685, 10–1867452, PCT/KR2015/012804
 Cutting-edge metal foam multi-nanocatalyst technology applied
- Ozone generation Oppm, harmful ozone generated from peripheral equipment is converted into oxygen and supplied
- Safe sterilization with stable metal foam structure that maximizes sterilization power
- Complete sterilization through 11stages of multiple purification sterilization
- Removal of total volatile organic compounds (TVOCs),
 Toxic gases, and sick house syndrome
- Powerful deodorizing performance
- Powerful, low-noise, powerful motor that sends safely and cleanly sterilized air to every corner
- Wash filter design considering maintenance cost
- Emotional LED to easily check the operating status
- Applying the Aluminum Layered Finish technique to save the stainless texture Luxurious finish that can be used neatly without leaving any handprints
- TotalDesign R&D products in R&D zone (Design by tangerine)
- European CE certification

Application area	165㎡ (1774 sq ft)
Power	110~240V AC
Power consumption	Max. 120W
Size	490(W) x 300(D) x 1700(H)mm 545(W) x 350(D) x 1725(H)mm (Base)
Identification number of procurement	22316497



* Other products other than the main 4types

General air purifiers (large, medium, small), air ventilation purification devices

National delivery & Installation status

Wherever you are, Puresys always be with you!

Puresys air purification sterilizers has created the best pleasant space since it was installed in hospitals, research centers, schools, public offices, and businesses across the country.







Educational institution

Daejeon Dunsan-dong Office / Table Tennis Class

Yongin Dongbaek Kindergarten Hankook Tire Circle preschool Seoul Foreign School

Cheonan Office of Education

Gangdong Songpa Office of Education Gangnam Seocho Office of Education

Seoul Southern Education Office

Seoul Yulhyeon Elementary School

Seoul Mirae Elementary School

Seoul Seryun Elementary School

Cheonan Sinchon Elementary School

Cheonan Dujeong Elementary School Cheonan Sindae Elementary School

Boryeong Jupo Elementary School

Incheon Bugae Elementary School

Gumi Seonsan Elementary School /

Daycare class

Ansan High School

Hwaseong Samgeo High School

Gyeongnam Uiryeong Elementary School

Sejong City Narae Elementary School

Jeju Nohyeong Middle School Jeonnam Science High School

Suncheon Hyocheon High School

Paju Jisan High School

Yangsan Jeil High School Corona Infection

Yangsan Girls' High School

Yangsan Girls' Middle School and many others

Other institutions

Goyang City Disabled Persons Day Protection Center and many others

Seoul Metro Subway Engine Room

Korea Invention Promotion Association / President's Office

Cheonggang Chemical Chemical Factory Samwon Special Work Space

GISTECH

Asan City Senior Community Center

Jeonbuk Jangsu-gun Senior community center

Marine Nursing Home (Jeju)

Hanla Nursing Home (Jeju)

Pyosun Nursing Home (Jeju)

Namwon Weekly Care Center (Jeju) Over 400 nursing homes nationwide including

Namdaejeon Nursing Hospital

Mark's Attic Church

Gongdeok-dong Remodeling Apartment

Leukemia patients

Sick house syndrome child apartment

Siheung City Hoban Verdium Apartment Ichon-dong Hangang XI Apartment

Yangsan Singi Apartment

Gunsan Fire Department / Fire fighting boat

Pyeongchang Fire Station /

Infection Control System

Taean Geunheung 119 Center Asan Fire Station

Danyang Fire Station

Sancheong Fire Station

Mental and physical stability Room

Geochang Fire Station /

Mental and physical stability Room

Jangseong-gun Buk-i myeon Office

Yangsan City Hall / Civil Affairs Office

Trade Association New Delhi Office in India

Charm Square Office

LS Group Chairman's Office

Army 5181 Unit

Air Force Operations Command Meeting Room

Korea Occupational Safety and Health Agency

Safety / Training Center 1

Yeosu Chemical Disaster Prevention Center

Hapcheon Fire Station

Sichuan Fire Station /

Geumsan County Office /

Office Corona Infection Control

Gwangiu Indoor Ice Center

Gwangiu Civil Service Education Center

Daejeon Construction Office

Cote d'Ivoire Power Plant

Beijing China Baby Studio

Vietnam PHU CAT New Airport

Espaco Office

LS Networks President's Office

Air Force Education Command Protest Squadron

High-density fine dust evacuation shelter in

Korea Occupational Safety and Health Agency Safety / Training Center 2







Hospital and Research lab.

Samsung Seoul Hospital

Seoul Seobuk Hospital

Gyeonggi Medical Center Uijeongbu Hospital

Chungnam Hongseong Medical Center

Seodaemun-gu Public Health Center / Corona Emergency Support

Daejeon Seo-gu Public Health Center / Corona Screening facility

Incheon Public Health Center

Jeongeup Public Health Center / Tuberculosis Office

Boseong Public Health Center

Yeonggwang Public Health Center Gokseong Health Medical Center

Cheorwon-gun Public Health Center / Infection Control

Busan Dongnae-gu Health Center /

Daejeon Seogu Health Center /

MERS Infection Control

Cheongju Sangdang Public Health Center Cheongju Seowon-gu Health Center /

Infection Control

Buyeo Health Center / Tuberculosis Lab / Dental Treatment Lab

Geumcheon-gu Health Center /

Health Promotion Section

Seoul Jin MG / Corona Infection Control Incheon BUBU MG / Corona Infection Control

Gong MG / Corona Infection Control

Pyoungtaek Gungangdream MG / Corona Infection Control

365 Gunganghan-Bugok Clinic /

Corona Infection Control Gumi Seoul Well-being Clinic /

Corona Infection Control Pohang Hyungtonghan Anesthesiology and pain

Castle Bubu Dental Clinic / Corona Infection Control

Hwang Dental Clinic

Hankook Hospital Kangnam Nonhyundongmin Hospital

Kangnam-Choice Hospital

Cheongju Endo Medical Clinic

Cheonan Ijin Pediatric Hospital Daejeon Korean postnatal care Daejeon Taepyung Clinic

Daeieon-Dream MG

Sejong Kyunghee Hospital / Operating Room Seoul Naewe Clinic / Operating Room

Goodline Plastic Surgery / Operating Room

Me-plus Plastic Surgery / Operating Room Jeju-VIP Plastic Surgery / Operating Room Ainick Plastic Surgery / Operating Room

Seoul-Slim Surgery / Operating Room Incheon-Family Public Health Clinic /

Operating Room Bangbae Champurun Hospital /

1st, 2nd, 3rd Operating Room Tantan Hospital Daeieon /

1st, 2nd, 3rd, 4th Operating Room

Ilsan Gospel Hospital / Operating Room 1, 2 Ilsan Obstetrics and Gynecology / Operating Room

Sangju Red Cross Hospital / 1st, 2nd Operating Room Seocho Eum Women's Clinic /

1st, 2nd Operating Room Gangnam Irium Ophthalmology /

1st, 2nd Operating Room

Yeosu Yeul Hospital / 1st, 2nd Operating Room Daegu Port Surgery / Operating Room

Daegu Samil Hospital / operating room

Daegu Hanmi Hospital / Operating room

Seodaegu Hospital / Operating Room

Gooden Hospital / Operating Room

Pareun hospital / Operating Room Icheon Fatima Hospital / Operating Room Irum Plastic Surgery / Operating Room

Cheongdam-dong Kai Plastic Surgery and Dermatology / Operating Room Pohang Women's Eye Hospital / Operating Room

Bonn & Orthopedic Surgery / Operating room Cheonan Mi-yu Surgery / Operating room Cheongju Moo-reup Nal-gae Orthopedics

Surgery / Operating Room Asan Seoul Samsung Ophthalmology / 1st, 2nd operating room

Mokpo Hyundae Hospital / 1st, 2nd, 3rd operating room

Duvalo Orthopedic Surgery / 1st, 2nd, 3rd Operating room

1st, 2nd double jaw surgery Room

Seoul Choice Hospital / Operating Room Haenam Woori General Hospital /

operating room and many others University of Seoul Laboratory, Library

Laboratory of Department of Chemistry National Instrumentation Center

Seoul National University /

for Environmental Management (NICEM) KI for BioCentury (lab rat breeding room)

KI for Advanced Battery Research Center

KI for Nanocentury Korea Institute Of Nuclear Safety

Orum Therapeutics / Genetic modification laboratory

Korea Fishes Resources Agency / Gene Analysis Lab

Gumi Foshan Outflow Disaster Area

Sewoo Source Development Institute Korea Research Institute of Chemical Technology Korea Institute of Machinery and Materials

IBS Animal Lab / Cell Signaling Lab Basic Science Institute for Vascular Research Group

Chungnam National University / Veterinary Medicine Lab Aekyung Chemical Research Institute

SK Magic Research Institute GS Caltex Research Center

Nuclear Safety Technology Institute Radiation Cabin

Rural Development Administration National Institute of Agricultural Sciences Chungnam Agricultural Research &

Extension Services / Corona infection control Chungnam Agricultural Research &

Extension Services / Pest Lab Air Force Aerospace Medical Center

Department of Defense / Lab

Patents & Certificates

The best professional organizations guarantee technology and quality of Puresys!

From purification sterilization and catalytic performance patents to GREEN GOOD DESIGN selection and KAIST excellent company selection (3times), Puresys is recognized for its excellent technology and ability by the best professional organizations.



- GREEN GOOD DESIGN AWARD 2012 (Awarding sustainable green design products to lead the world)
- GOOD DESIGN (selected for excellent design)
- CE Certificate
 (European Safety Certification)
- ISO 9001 Quality Management System Certification
- ISO 14001 Environmental Management System Certification
- Q-Mark(Quality Certification) Designation
- Patent Certificate (No. 10-1069685)
- Patent (No. 10-1419481)
- Patent (No. 10-1867452)
- United States Pantent (US 10,471,170 B2)
- PCT/KR2015/012804
- Design registration certificate (0699163)
- Design registration certificate (0753577)
- Design Registration Certificate (0832556)
- 2013 Korea Invention Patent Grand Prize
- 2013 Excellent Trademark Competition
- 2014 Excellent invention priority purchase recommendation letter
- Promising small business certificate
- Global Procurement Leading Company Certificate
- Citation
- Trademark registration certificate
- International Trademark Registration Certificate



Air purification method

Unlike general air cleaners that filter out fine dust with only a filter, it first purifies the air with a basic filter of 3steps, and then secondly decomposes and completely removes toxic organic substances with a photochemical multi-catalyst air purification sterilization module (11 steps).

Purification material

Unlike general air purifiers that focus only on removing fine dust rapidly, it purifies the air by decomposing and removing fine dust and ultra fine dust as well as harmful gases and odorous substances, suspended bacteria and viruses, and various organic substances and ozone.

Cost

The initial cost is relatively high (approximately 2.5 times that of a normal air purifier), and the replacement cost of the filter is low, and the air purification sterilization module, which is the core device, is semi-permanent.

Puresys sales and A/S network

Products are delivered and installed promptly from headquarters in over 20 countries worldwide.

The filter and parts replacement cycle is as follows.

There may be some variation depending on the usage environment.

Based on 8 hours of us	e per day
Carbon · HEPA filter	

- Low-temperature deodorizing catalyst filter
- UV lamp
 8,000hours (about 3years)

6months to 1year

 Air purification sterilization module metal foam catalyst 3~6years Distributor

Sales representative

Contact