

AIR *Signature*

PURIUM

— ESG LEADING COMPANY —

Make a better place!

Safe and clean indoor air is your right!

www.purium.kr



Make a better place! Make a better inside!

Safe and clean indoor air is your right!

Purium is the first air-cleaning brand in the world to successfully develop, patent, and commercialize innovative products that did not exist in the world.







Cyclone Turbo Air Shot

Twelve patented wind ejectors using Bernoulli's Law and Venturi's Law, applied in aviation engineering, are mounted on the top, right, and left sides of the product to create a quiet but powerful whirlwind, effectively removing various harmful substances such as (ultra) fine dust, bacteria, and viruses.



Extra-large Dust Collector Fan (Scatter-proof Technology Applied)

Extra-large dust collector fan and carbon nanotube+high-performance HEPA filter, created by PURIUM's innovative technology, are equipped on both left and right sides to strongly suction and scatter-proof (ultra) fine dust, bacteria, and viruses to purify, remove harmful gas, and deodorize to emit clean air into the room.



UV-A/C Dual Sterilization · Antivirus

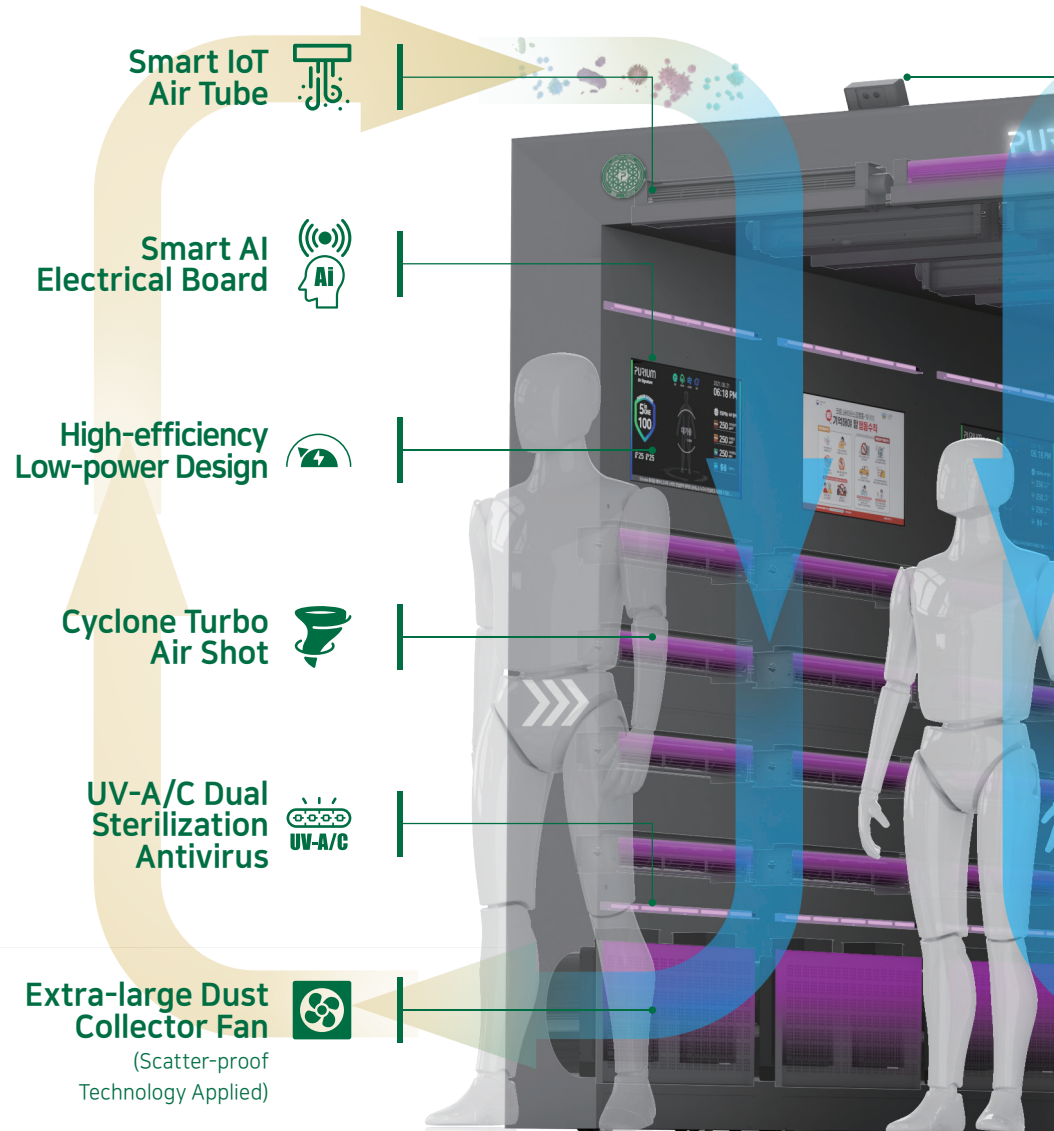
UV-A/C dual LED sterilization and antiviral modules are installed in 12 ventilation parts and 4 dust collector parts to effectively remove various bacteria, viruses, and odors in the air and reduce mold production and fruit flies. (Airborne bacteria and airborne virus testing have been completed_KTL*)



High-efficiency Low-power Design

Using the low-power DC design applied in automotive electronics technology, it can be used in regular 220V everyday at a cost of around 20,000KRW per month without any additional electric reconstruction.

* **Bernoulli's Law:** Using airplane's wing-shaped fan structure to reduce pressure and amplify wind speed to create strong wind.
 * **Venturi law:** Narrowing the diameter of the outlet to reduce internal air pressure, creating stronger wind.
 (Patent Number 10-2091119, 10-2078976)



* **Airborne Bacteria Reduction Rate:** Over 99.9% Removal (22-052790-01-2) KTL
 * **Airborne Virus Reduction Rate:** Over 99.9% Removal (22-082016-01-1) KTL



AI Thermal Imaging Camera



Free Filter



AI Air Quality Measuring Sensor



Smart Digital Signage



Natural phytoncide antibacterial deodorization

AI IoT Sensing



Real-time monitoring of temperature, humidity, carbon dioxide, VOC, and PM 2.5/10* level is displayed on the internal monitor screen to report the status to the user and perform AI actions according to the indoor air quality.

Smart IoT Air Tube



The powerful air curtain created by Cyclone Turbo Airshot maintain clean indoors environment by blocking ultrafine dust, bacteria and harmful substances from getting in.

Various Expandability



The modular design of Purium allows using of variety of different functions by installing separately sold items such as thermal imaging camera, people counter, QR code scanner, and floor mat sanitizer.

Smart Digital Signage



The 43-inch digital signage installed outside allows promotion of various contents and can be used according to different terms through the expandability of the Purium.

Natural Phytoncide Antibacterial Deodorization



Natural phytoncide extracted from cypress trees in Jangseong, Jeollanam-do, vaporizes in a nature-friendly way, creating the effect of natural forest bathing indoors. Natural phytoncide released in the air provides excellent deodorization · antibacterial function to purify indoor air.

* PM : Particulate Matter Less than 2.5µm / 10µm

Advantages of purchasing PURIUM

- ① Public Procurement Service's **'Innovative Product System' Product No.1**
- ② As Public Procurement Service's Innovative Product / Superior invention Preferential Purchase Recommended Product, can be purchased under the **Public Procurement Preferential Purchasing System**
- ③ Indoor quarantine products **available for one-man private contract** with public institutions regardless of the price
- ④ When purchasing the innovative product, **inspections exemption and contract manager's obligation exemption is given for 5 years**
- ⑤ **10 additional points to chief engineer** for the purchasing agency
- ⑥ **Innovative Product** preferential purchase and spending of mandatory purchase budgets allowed
- ⑦ Since given the name as innovative products by the Public Procurement Service in 2019, **over 800 units have been installed and is being operated** in central and local governments such as the Public Procurement Service, the National Tax Service, the Ministry of SMEs and Startups, and the Ministry of Maritime Affairs and Fisheries
- ⑧ **Patented Cyclone Turbo Shot Technology** softly but effectively removes and blocks (ultra) fine dust and pollutants attached on objects or users
- ⑨ Monitor real time indoor air quality and create a quick backflow to allow **purification of are within the space as big as up to 3,300m²**, creating the same effect as ventilation without opening the window
- ⑩ Uses dual UV-A,C LED and medical phytoncide to safely sterilize air using **ingredients that are harmless to humans**
- ⑪ Economical maintenance cost (based on 8 hours of use per day) 20,000 KRW/month through **low-power design**
- ⑫ **Regularly conduct accredited tests** on product performance certification, such as antiviral test reports and sterilization test reports

Products Available for Private Contract (Related Laws)

Article 26 (1) 5 "G" of the Enforcement Decree of the National Contract Act / Article 25 (1) 8 "C" of the Enforcement Decree of the Local Contract Act

Purchase Disclaimer

Disciplinary immunity if no intention or gross negligence at the time of procurement (Amendment of the Procurement Business Act)

*gross negligence: Private stakes / serious procedural defects

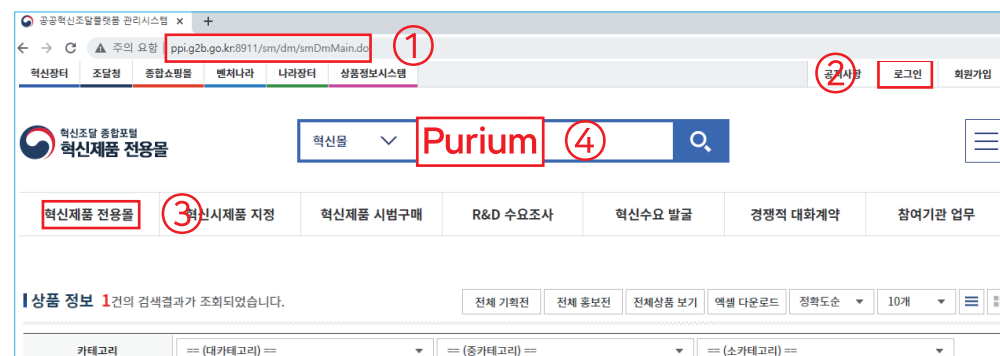
Consideration of Institutional Evaluation

The purchase performance of innovative products is reflected in the evaluation index for public institutions, evaluated in accomplishment performance compared to the goals of each institution

Institutional Classification	Central Office Group	Public Institution	Local Public Enterprise	Metropolitan Council	Basic Local Government	Office of Education
Target rate	1.6%	1.8%	1.6%	0.8%	0.8%	0.4%
Item Classification Number: 30201790 / Item Identification Number: 23700917						

How to use the Innovation Market

- ① Access the innovative procurement general portal **Innovation Market** (<http://ppi.g2b.go.kr>)
- ② **Log in** with a certificate registered in Nara Market
(must consent to the terms of use for initial authentication)
- ③ Click on the **Innovative Product Mall**
- ④ **Search for 'Purium'** in the Innovation Mall search box and select '**Smart IoT Air Shower PURIUM-10000-P**'
- ⑤ Read over the product information and click (Can request Public Procurement Service for more than 50 million KRW)



For Facilities

PURIUM - 10000-P / 10000-B *External 43-inch digital signage installed P, not installed B

It is installed at the entrance of general multi-use facilities to block ultrafine dust, bacteria and harmful substances from getting in, while scatter-proofing and removing pollutants on the skin and clothes using Purium's preventative technology to maintain safe and clean indoor space.

Total Size(mm) : 1,940(W) x 2,400(H) x 886(D)

Color : ● ● ● ● (Additional charges will apply when changing colors)

For Small Facilities

PURIUM - 20000-B / 20010-B

The air shower gate, designed for small facilities such as daycare centers, childcare facilities, and office spaces, provides a safe and clean indoor environment even in small scale facilities through low-noise and low-power designs.

Total Size(mm) : 20000-B · 1,770(W) x 2,315(H) x 844(D)

20010-B · 1,670(W) x 2,135(H) x 844(D)

Color : ● ● ● ● (Additional charges will apply when changing colors)

* For Facilities (10000-P)



* For Small Facilities (20010-B)

For Special Purposes

PURIUM - 30000-P / 30010-P

This is a special purpose product for spaces where preventative measures and security are emphasized using convenient expansions, while metal detectors and speed gate modules are installed for facilities that require access control and security such as courts and police stations to perform security and preventative measures.

* For Special Purposes (30000-P)



Color : ● ● ● ● (Additional charges will apply when changing colors)

* For Special Purposes (30010-P)

For Walkthrough

PURIUM - 50000-P / 50000-B *External 43-inch digital signage installed P, not installed B

It is a product that further strengthens the dust collector and UV-LED sterilization function for facilities with a very large floating population such as airports, train stations, terminals and complex cultural facilities.

Total Size(mm) : 1,940(W) x 2,400(H) x 2,620(D)

Color : ● ● ● ● (Additional charges will apply when changing colors)

For Stand

PURIUM - 90000-P

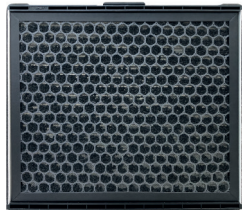


Stand products are specialized for personal preventative measures and purification installed in individual houses (apartment, officetel, etc.) or in office entrances to remove pollutants using the air shower gate and analyze indoor air quality by switching to AI mode when in standby status.

* For Walkthrough (50000-P)

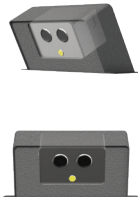




* For Stand (90000-P)

Consumables (Filters and Phytoncide)

Product Name	H13 HEPA+ Carbon Nanotube Dust Collector Filter	Free Filter	Phytoncide
Sizes and Specifications	3 layer filter including Hepa 13 Grade HEPA filter. Removal of ammonia/acetalddehyde/formaldehyde/acetic acid/toluene/various VOC through surface treatment on activated carbon with high specific surface area and well-developed nano-size processing.	Composed of mesh filter+corrugated filter Removal, deodorization of harmful gases Removal of dust	Phytoncide extracted from cypress trees in Jangseong, Jeollanam-do, provides "forest bathing effect of indoor air" through indoor air purification
Image			

Separately Sold Products

Product Name	Facial recognition thermal camera	Specialized Floor Mat	QR Scanner
Sizes and Specifications	Infrared / Distance: 1m ~ 5m / Accuracy: $\pm 0.3^{\circ}\text{C}$ Image Sensor: Silicon oxide uncooled infrared focal plane detector / Lens/ Resolution: 1920x1080P WDR (Wide area back light correction): $\geq 80\text{Db}$ Image sensor: 1/2.8" 2.0M Pixel CMOS	Sizes: 1489(W)*729(D)*20(H) Materials: Stainless, Coil mat	Scan and send QR code to management server, receive QR code verification information from the management server, and display the results to the user vis message and sound Various functions including People Counter, CCTV, and etc. can be expanded
Image			

Various expansion options (CCTV, People Counter etc.)

Central Administrative Agency

Installation Cases

Ministry of Public Administration and Security, National Tax Service, Air Force, Army, Ministry of Health and Welfare, Ministry of Environment, Small and Medium Business Administration, Ministry of Maritime Affairs and Fisheries, National Maritime Police Agency, Ministry of Science and ICT, National Agency for Administrative City Construction (NAACC), etc.



Sejong Convention Center  Ministry of the Interior and Safety



National Tax Service  National Tax Service




Air Force Command 



Army  대한민국육군



Ministry of Health and Welfare  Ministry of Health and Welfare



Ministry of Environment  Ministry of Environment




Ministry of Maritime Affairs and Fisheries  Ministry of Oceans and Fisheries

Local Governments

Installation Cases

Seoul Seocho-gu Office, Busan Jung-gu Office, Wando-gun Office, Nowon-gu Community Health Center, Nowon-gu Office, Nowon-gu Office, Seoul Jung-gu Office, Gwangju Seo-gu Office, Gangdong-gu Community Health Center, Eunpyeong-gu Community Health Center, Wonju Community Health Center, Songpa-gu Office, Wanju Office, Uijeongbu Passport Public Service Center, Uijeongbu City Hall, Geumcheon-gu Community Health Center, Gangseo-gu Office, Gangseo-gu Community Health Center, Buan-gu Office, Gangbuk-gu Office, Anseong City Hall, Mapo-gu Office, Agro-Fishery Market, Anyang City Hall, Seodaemun-gu Office, etc.



Seocho-gu, Seoul 



Gangdong-gu, Seoul 




Wando County 



Korea Ginseng Corporation  KGC인삼공사



Korea Investment & Securities Co., Ltd  한국투자증권



Busan Bank  부산은행

Corporations

Installation Cases

Korea Ginseng Corporation, Korea Investment & Securities, Busan Bank, Bookook Securities, Dowon Invest Development, Inbody, Ark, Natural Substance Research Institute, Goyoung Technology, Dongil Interior, CGV, etc.

Public Enterprises and Quasi Non-governmental Organizations


Installation Cases

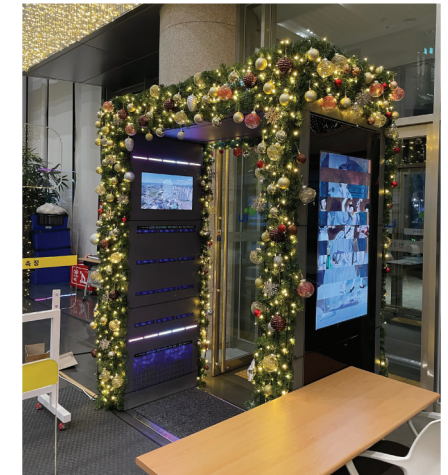
National Pension Service, National Insurance Corporation, Korea Land and Housing Corporation, Korea Hydro & Nuclear Power Co., Ltd, Korea Asset Management Corporation, Korea Gas Corporation, Saemangeum Development and Investment Agency, Korea Electric Power Technology, Korea SMEs and Startups Agency, Entrepreneurship Promotion Agency, Korea Fire Equipment Inspection Corporation, Korea Southeast Power Corporation, Post Office Logistics Support Group, Korea Broadcasting and Telecommunications Agency, Korea Energy Agency, Korea Institute of Industrial Technology Evaluation and Management, Korea Human Resources Development Institute, Korea Marine Fisheries Training Institute, Korea Internet & Security Agency, etc.



National Pension Service  NPS 국민연금공단



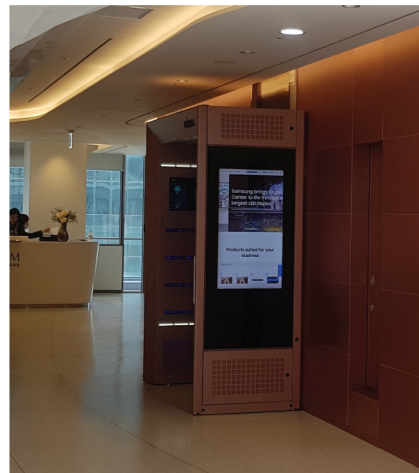
National Insurance Corporation  hiwell 국민건강보험



Korea Land and Housing Corporation  LH




Chung-Ang University Gwangmyeong Hospital  중앙대학교



Ilsan Cha Hospital  일산차병원



Cheongdam Yein Dermatology Clinic  예인피부과

Health · Welfare Religious Organization

Installation Cases

Red Cross Gimcheon Medical Center, Red Cross Pohang Medical Center, Red Cross Andong Medical Center, Red Cross Ulsan City Medical Center, Red Cross Seongnam City Medical Center, National Chuncheon Hospital, National Rehabilitation Center, Joyeon Otolaryngologist, Yein Dermatologist, Kang Kyung-min Orthopedic Surgery, Neck-Breast Surgery Clinic, Bugok Hospital, Rojas Cham Sarang Nursing Hospital, Ilsan Cha Hospital, Seoul Senior Welfare Center, Yesan-gun Happiness Village Support Center, etc.

Educational Nursery Institutions

Installation Cases

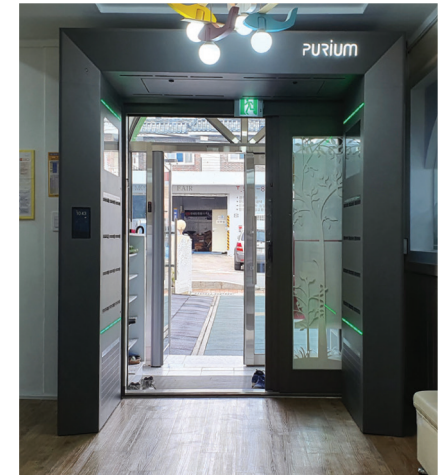
Chung-Ang University, Korea National University of Arts, Kyungwoon University, Ewha Girls' High School, Namsan Elementary School, Chungmu Elementary School, Deoksu Middle School, Hanyang Middle School, Munrae Elementary School, Songwon Elementary School, Jung Daun Daycare Center in Busan, Dongjak-gu Roya Kindergarten, Gwangju Ripple HABA Kindergarten, Childcare Support Center, Seoripul Nori School, Kori Nuclear Power Headquarters Daycare Center, etc.



KAIST **KAIST**



Yeomgwang Girls' Meditech High School 



Jung Daun Daycare Center in Busan



Inbody Headquarters **InBody**



The Born Hotel **HOTEL THEBORN**



SK Pinx **SK pinx**

Others

Installation Cases

KIA Auto Show, Ulsan Culture and Arts Center, Dream Park CC, lo Convex, Public Purchase Promotion Competition, Gangdong Art Center, Korea Job World, Daejeon Hillstate, Ladies Classic Jeju Pinx Golf Course, Yeongjongdo Blue Ocean, Baekseok-dong Model House, Mokdong DMC Starbiz Model House, Gwangju Sangsang Housing Model House, etc.

Central Administrative Agency



Regional Local Government



Public Enterprises



Quasi Non-governmental Organizations



Others



Corporations



Health · Welfare



Educational Institutions



Multi-use Facilities · Religious Organizations



Various Events



Others





[A vivid survival story of a star company in Gyeonggi-do] Establishing a spatial preventative system with UV-AC

There is a company that helps establish a spatial preventative system with eco-friendly UV-AC and strong wind discharge devices inspired by aviation engineering. Going a step further than typical air curtains often seen at store entrances, a company called Purium has developed a tunnel-type gate that sterilizes and blows off harmful substances with strong winds.



Purium Develops Walk-Through Sterilization Gate... "Easy for multi-use facilities"

The walk-through smart safety sterilization gate Purium is newly releasing is a product that allows large number of people to enter at once and can be used in multi-use facilities such as airports, terminals, subways, schools, and military/education facilities to feel safe from viral threats.



'Virus-free' Purium Supplies Smart Safe Sterilization Gate to Seoul Forum

Purium has installed an entrance-type air purifier smart safety sterilization gate at the main gate of the venue where major events of the Seoul Forum took place. Participants passed through the safe sterilization gate, which sprayed strong winds to blow off fine dust, bacteria, and various viruses attached to the body when entering the venue.



[Seoul Economy] Purium won the Public Procurement Service Award for 'Excellent Supply and Contribution to K-Prevention'

The Innovation Procurement Competition is awarded by the Public Procurement Service every year by selecting 10 outstanding companies based on excellent case data of innovative procurement. Purium won the Silver Award of the Public Procurement Service for its excellent supply cases and contribution to K-prevention. Kang Shin-myeon, the head of the Seoul Regional Public Procurement Service, visited and presented the award at the awards ceremony held at Purium's Yongin plant.



[NEWSIS] Science Pandemic Prevention starts from the entrance... Eyes on the "Smart Safe Sterilization Gate"

CEO Nam Ho-jin of Purium said, "Pandemic prevention should start from the entrance of the building where people come and goes. Not only the existing smart safe sterilization gate, but with the 'walk-through sterilization gate' for large complex facilities and home products for small indoor spaces, the Purium Planet...



The 13th International Climate and Environment Industry Exhibition introduces artificial intelligence smart safety sterilization gate!

Purium Co., Ltd. (CEO Nam Ho-jin) introduced the artificial intelligence smart safety sterilization gate 'Purium' at the 13th International Climate and Environment Industry Exhibition (ICEF 2022), which will be held at the Kim Dae-jung Convention Center in Gwangju for three days from September 14th (Wed) to 16th (Fri). Designed in the form of a gate, this product contains an eco-friendly LED sterilizer, natural phytoncide,...



Flawless quality Purium, concentrating its capabilities on the "Establishment of indoor safety standards in global villages"

Purium Yongin plant, a smart safety quarantine gate development and production company located in Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, visited on the 20th, is a company has been producing smart safety sterilization gates since 2019 and has been listed as one of the Government Performance ASSured Companies (G-PASS) by the Public Procurement Service.



[2022 KOSDAQ Level Up] Welcoming the ESG era. 'Welcome, it's your first time with ESG, right?'

Air conditioning system (air purification products) manufacturer Purium has replaced the cases of all parts supplied to the company with recyclable cases. It is said that they have also minimized plastic use in the interior packaging. It can be said that the company has achieved the tasks that companies can first implemented for the environment.



Purium, KOICA join hands to provide smart safety sterilization gate to Pakistan

On the 31st, at the "Pakistan Pandemic Preventative Measures Support Program" conducted by the Korea International Cooperation Agency (KOICA) for two day from 16th to 18th of this month, Purium announced that they have provided training on the installation and management of Purium Smart Safety Sterilization Gate products to the Pakistan Energy Technology Committee (PCRET) and the Faisalabad Agricultural University (UAF).



[My Gyeonggi-do Province] Fine dust and viruses freeze! Introducing the company, Purium

Purium Co., Ltd. is the world's first venture company to develop and manufacture artificial intelligence smart safety sterilization gates. With their 23 employees and the CEO Nam Dong-kyu, who have declared ESG management, Purium, which moved to Yongin last year, is doing their best to create a clean and safe space. By respecting the lifestyle of young employees...



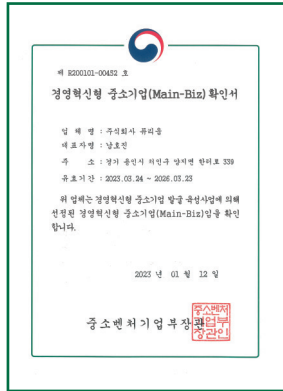
Purium Co., Ltd. Holds 'ESG Management Declaration Ceremony', "Fulfilling its Social Responsibilities"

On the 26th, Purium announced that they held an "ESG Management Declaration Ceremony" on the 25th at their headquarters in Yongin. Through the event, the company announced their plans to improve ESG vulnerabilities and enable healthy workplaces following the EPEAT certification, strengthen eco-friendly management by expanding the D2D market and achieving zero carbon, to become work-life balance leading small business, and develop master human resources as performance-based culture spread.

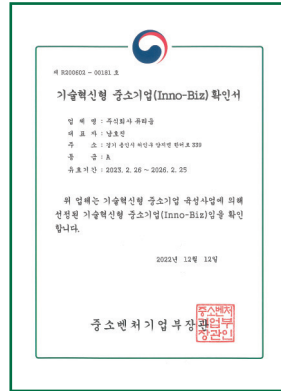


[A family-friendly company in Gyeonggi-do] Work and family are compatible!

Purium Co., Ltd. is a seven-year-old venture company established in 2016 and is located in Yongin, Gyeonggi-do, that manufactures smart safety sterilization gates (facility-type air showers). They are researching and developing products that combine air cleaning technology, artificial intelligence, and the Internet of Things, and are investing a lot to launch new products in the second half of 2022.



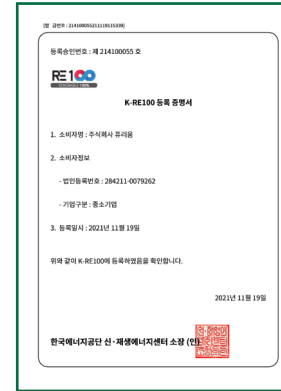
Main-Biz Confirmation



Inno-Biz Confirmation



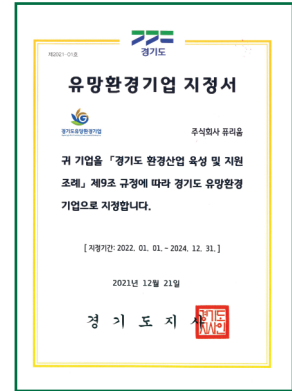
Certificate of Venture Enterprise



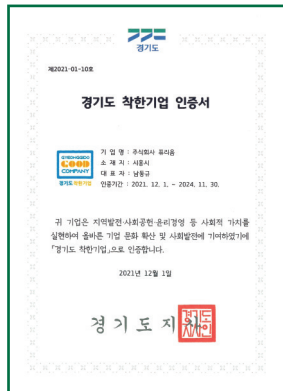
Certificate of K-RE100 Registration



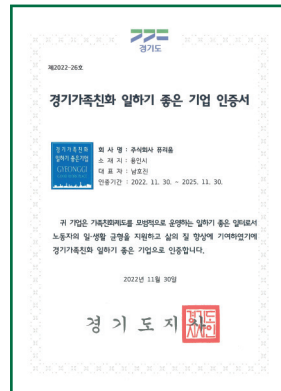
Certificate of Government Performance ASSured Companies (G-PASS) Designation



Certificate of Promising Environmental Enterprise in Gyeonggi-do



Certificate of Empathy Enterprise in Gyeonggi-do



Certificate of Gyeonggi-do Family-Friendly Workable Company



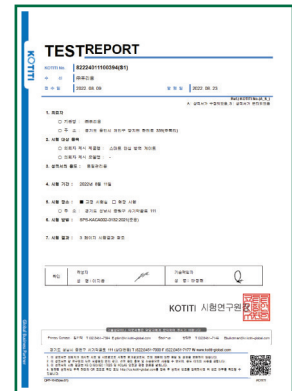
Airbourne Virus Reduction Rate (99.9%) Test Report



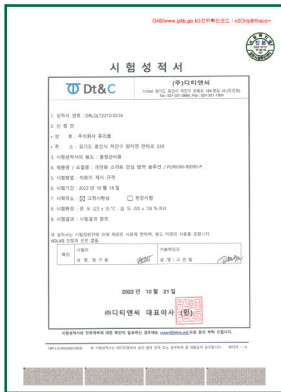
Airbourne Bacteria Reduction Rate (99.9%) Test Report



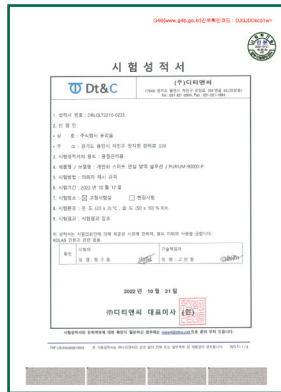
Particle Purification Performance (99.9%) Test Report



Fine Dust Removal Purification Capability Test Report



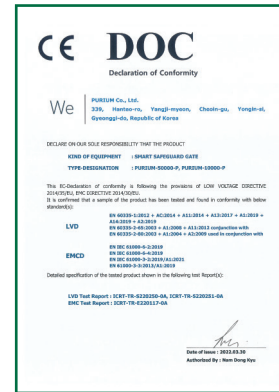
Power Consumption
Test Report



Noise Test Report



Certificate of KC



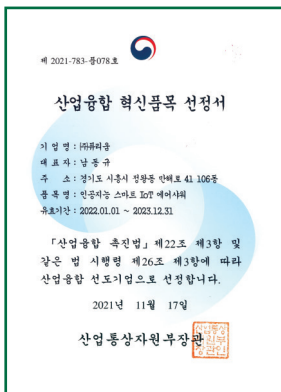
Certificate of CE
(Declaration of Conformity)



Certificate of ICT
Convergence Quality



Outstanding Invention
Preferential Purchase
Selection Confirmation



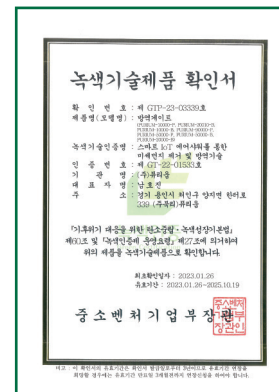
Industrial Convergence
Innovation Item
Selection Statement



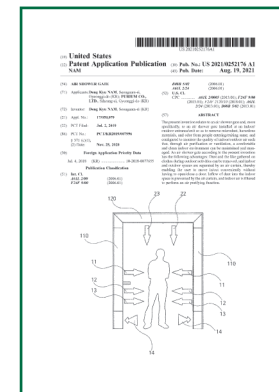
Certificate of Innovative
Product Designation



Certificate of Green
Technology



Certificate of Green
Technology Product



United States Patent
Application Publication



European Patent Application

Frequently Asked Questions

① How long does it take till the installation of the product?

After signing the contract, it usually takes 1 to 2 weeks, but it may take up to 5 weeks depending on special request, such as changing the specifications. Also, the installation (operation) takes about an hour, if special requests are not received.

② Is it possible to change the product specification (size)?

Yes, it's possible. We proceed with the production after visiting the installation location.

③ How will the product be powered?

With its low-power design using automotive electrical board technology, 'Purium' uses a 220V outlet used in common houses.

④ How would the product be translocated?

For simple translocations, only the bottom finish needs removed from the inside of the product, and move the product after loosening the nuts and bolts. However, if there is a bump on the floor or if the product needs to be translocated to another place, you must use the paid translocation service.

⑤ On what basis is a private contract possible?

'Purium' is an innovative product, making private contracts be possible based on Article 26 (1) 5 "G" of the Enforcement Decree of the National Contract Act and Article 25 (1) 8 "C" of the Enforcement Decree of the Local Contract Act.

⑥ Is it possible to change the color?

Yes, it's possible. Additional cost will be incurred for color change. (Additional cost will vary depending on the color)

⑦ What specifications are required for installation?

Based on the products for facility use, the ceiling must be at least 2,500mm tall and the width between the walls (horizontally) must be at least 2,300mm wide.

⑧ Are UV sterilizers harmful to the human body?

UV sterilizers can also be at a risk of causing blindness if directly irradiated to the human body. However, instead of directly irradiating it to human body, 'Purium' irradiates on the draft fan that blows out the air and collector fan that suctions in the air, making it harmless to the human body.

⑨ What is the resolution when changing the internal monitor and signage content?

Internal Monitor (24 inch): 1920*1090 FHD
/ External Signage (43 inch): 3840*2160 UHD.

Purium Headquarter

339, Hanteo-ro, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea



Purium Seoul Office

A-1610, Songpa Terra Tower 2, 201, Songpa-daero, Songpa-gu, Seoul, Republic of Korea



Purium Activities

Group photo of the executives and employees of Purium



Completion of Purium First Aid and CPR training



Procurement Item Identification Number 23700917 / 23802152 / 24401366



Purium Co., Ltd

Headquarter 339, Hanteo-ro, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

Seoul Office A-1610, Songpa Terra Tower 2, 201, Songpa-daero, Songpa-gu, Seoul, Republic of Korea

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