

High Technology
PURIUM
System

INNOBIZ 기업용 자동소독기
VENTURE FOR TOMORROW 발전기업
MAIN BIZ 경영혁신용 자동소독기
MAIN BIZ 경기도 유일자동소독기
주요사업 유한양행
주요사업 한국전력

국립중앙의료원
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관
국립현대미술관

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력
주요사업 한국전력

Artificial Intelligence
Smart SafeGuard Gate



www.purium.kr

CONTENTS

	Company Overview	1
	Specification	2
	Reference	7
	Test Report	9



CEO's Greeting



Post-Corona Era, the New Normal is PURIUM

PURIUM's technology and efforts become a new standard and value for the era we will live in.

CEO | Ho Jin Nam

PURIUM is the first company in the world to develop, manufacture and sell <Artificial Intelligence Smart IoT Air Shower>, a walking-through type that allows everyone to enjoy safe and comfort indoor life with the vision of "creating a safe and clean space".

Purium's " Smart SafeGuard Gate" is a clean system that prevents the inflow of (ultra) fine dust and harmful substances from the outside and purify indoor air by using an eco-friendly LED sterilizer, natural phytoncide and HEPA filter.

In line with the post-corona era caused by the 2020 Corona 19 pandemic, "Purium Premium", which includes a variety of quarantine products (thermal imaging camera for fever check, QR code checker for electronic access list essential when entering multi-use facilities, etc.) We are doing our best to grow into a global company in name and reality along with "K-Quarantine" by launching it.

Purium will continue to pursue the development of various new air purifying products through constant R&D and bold investment to make all spaces in daily life safe and clean, and continuously reflect the diverse needs of customers through continuous communication and solidarity with customers. We will make "Purium" the world's best air purifying brand.



Company Overview

Company Name	PURIUM Co., Ltd.
C E O	Ho Jin Nam
Founding Date	2016.09.01
S t a t u s	Manufacture
A d d r e s s	(Head Office) 339, Hanteo-ro, Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do (Seoul Branch) 1609,A,201, Songpa-daero, Songpa-gu, Seoul
C o n t a c t	(홈페이지) www.purium.kr (e-Mail) bingsan123@purium.kr (전화) 02-881-5544
S e r v i c e s	Smart SafeGuard Gate manufacture

Item description | PURIUM 10000-P



Main Function

1. Large air purification according to smart sensing of indoor air quality
2. Blocking, removing, collecting fine dust and deodorizing, antibacterial, anti-virus
3. antibacterial, anti-virus, deodorizing by using eco-friendly LED sterilizer and phytoncide
4. indoor air abnormality detection, and improvement plan through indoor air quality sensor
5. Providing various information through internal and external digital signage
6. Various scalability enhancements

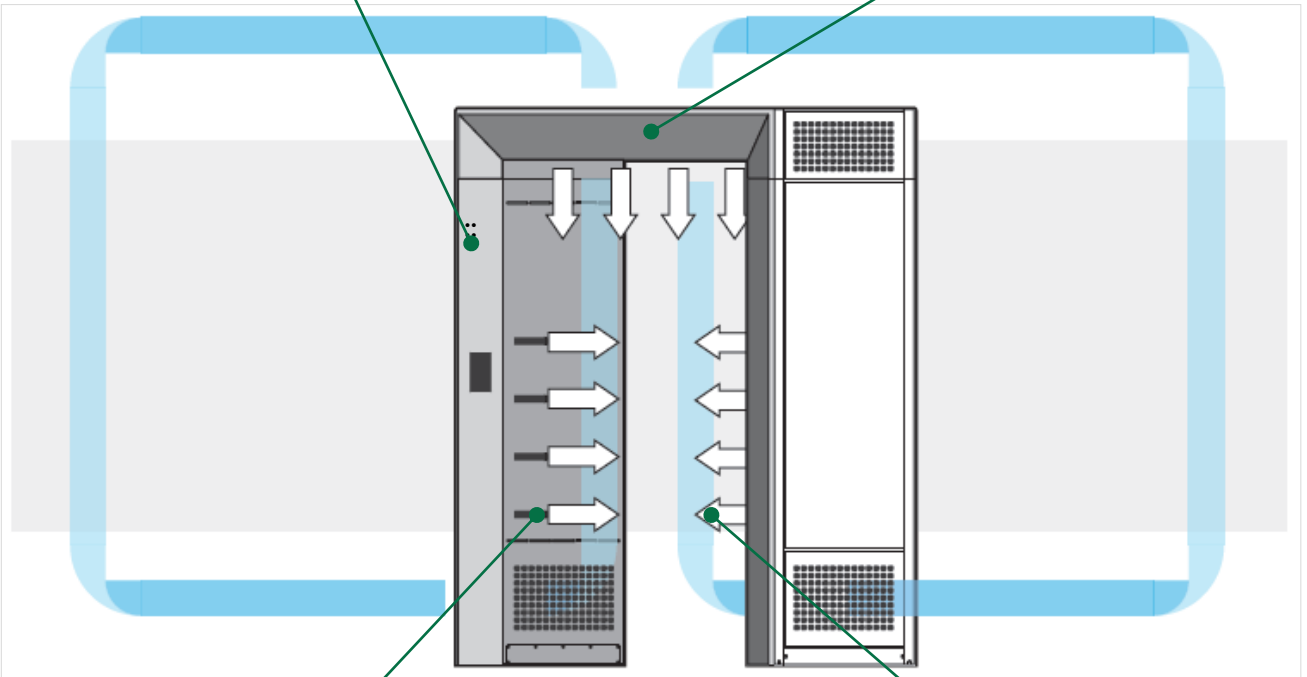
Item description | PURIUM 10000-P Technology

Smart IoT Platform/ IAQ sensing

Based on the cutting-edge smart IoT platform technology, five major components of indoor air such as temperature, humidity, Co2, VOC, and fine dust are checked in real time, and Big Data of indoor air is generated through 24-hour trend analysis.

Air Shower Gate

It removes fine dust from the outside and cleans the indoor air by filtration and ventilation of the indoor air using a HEPA filter. Air shower gate patented technology with various functions such as air injection suitable for the user's height through a sensor



UV-LED Sterilization

It uses both UV-A (405 nm) and UV-C (275 nm), an eco-friendly, state-of-the-art semiconductor light source that artificially creates and emits ultraviolet rays that exist in nature. Eliminate (Do not directly irradiate the human body, but irradiate the fan that blows and collects dust.)

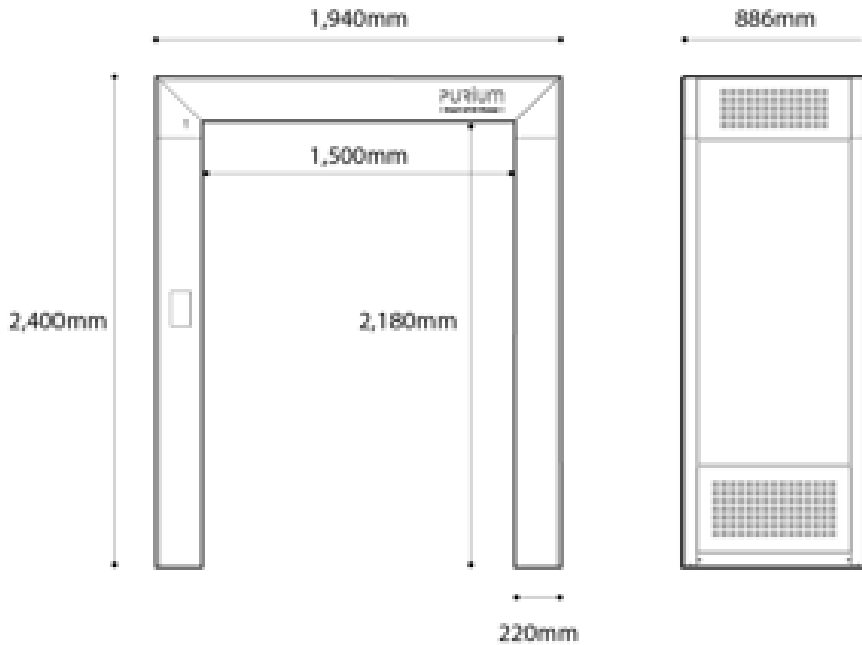
Cyclone Turbo Airshot

Air mechanics "Berunui's Law" and "Venturi Effect" are used to create quiet and powerful wind with normal voltage and low wind source without separate electrical facilities (3-phase 380V) and air compression device (compressor). Reduce fan noise to living noise level

Natural Phytoncide




It uses natural phytoncide gel extracted from cypress tree to break down the bonds of odor-causing molecules and fundamentally solves bad odors through deodorizing

Data Sheet I PURIUM 10000-P

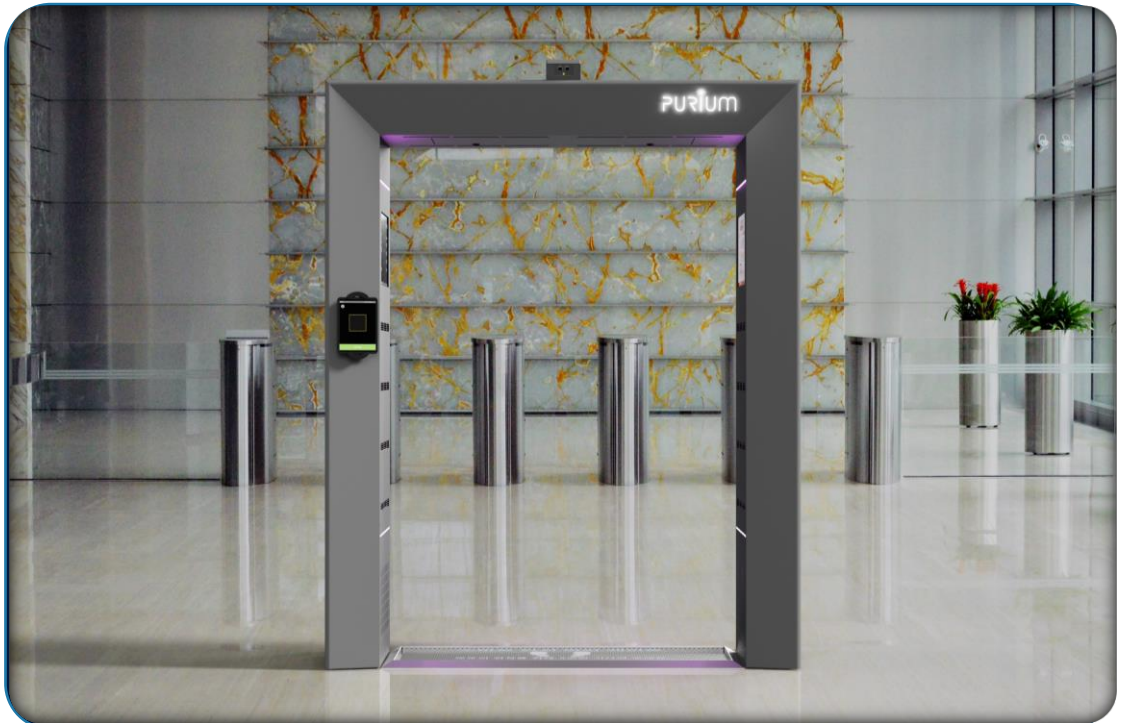


COLOR	Warm Gray	Charcoal Gray	Champagne Gold	Gold
Division	Product Name	PURIUM-10000-P		
Signage (Monitor)	24"	1920 * 1080 FHD		2EA
	43"	3,840 * 2,160 UHD		2Ea
Main part	Motion Sensor	Infrared reflection type(Detection distance 3M)		2Ea
	LED Sterilizer	275nm(UV-C), 405nm(UV-A)		16EA
	Cross Fan	9.2m ³ /min, 24V(single item)		12EA
	Dust collection Fan	17.5m ³ /min, 220V(single item)		4EA
	Filter	HEPA + Carbon nanotube filter		8EA
Fine dust	Minimum dust particle size	0.3μm		
Air volume	Air volume	110m ³ /min		
Dust collect Air volume	Dust collect Air volume	70m ³ /min		
Electricity	Voltage / frequency	AC 220V, 60Hz		
	Consumption(W)	40W(Saving), 530W(Stand by), 710W(operating)		
Size	Size(mm)	1940(W)*2400(H)*885.93(D)		
Weight	Weight(kg)	330kg		
Etc	Consumable	Phytoncide 8EA, HEPA filter 4EA provided (Consumable)		
	Product manual	Product manual 1EA		

 Data Sheet I Options


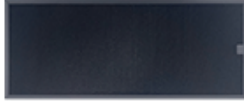

Product name	Thermal imaging camera	Foot mat	QR Reader
Image			
Specifications	<ul style="list-style-type: none"> · Infrared ray · Distance: 1m ~ 5m · Accuracy: ±0.3℃ · Image sensor : Silicon oxide uncooled infrared focal plane detector · Lens · resolution: 1920 x 1080P · WDR: ≥ 80Db 	<ul style="list-style-type: none"> · size: 1489(W) * 729(D) * 20(H) · Material: Stainless, coil mat 	<p>QR reader for checking the entrance and exit</p>

Option items
Installation Example



※When the Thermal imaging camera is directly illuminating the outside, abnormal heat can be detected.

 Data Sheet | Consumables

제 품 명	HEPA13 filter+carbon nano tube filter	Pre-filter	Phytoncide
Image			
Specifications	<ul style="list-style-type: none"> · HEPA13 filter+carbon nano tube filter · Toxic gas removal, deodorization · Remove finedust 	<ul style="list-style-type: none"> · Composed of mesh filter + corrugated filter · Toxic gas removal, deodorization · Remove dust 	By purifying indoor air with natural phytoncide 'The effect of bathing in indoor air'

Terms of Trade		
contract conditions	1/case	one year's supply
package configuration	HEPA filter Phytoncide	HEPA filter : 4/1 unit Phytoncide : 8/1unit
Export Criteria	FOB	Ship within 21 days of placing an order
Field Support	1) Round-trip ticket 2) local accommodation fee required	

 Reference I

Clean and Safe environment for civil with National Tax Services	
Contract/ project title	Clean and Safe environment for civil with National Tax Services
Contracting Authorities	National Tax Services
Build up period	Dec.23.2020~Jan.19.2021
Scope of Work/Project Overview	Seven products have been installed at the National Tax Services and are currently operating to promote civilians safety. Positive feedbacks have been given by people who are visting the government building



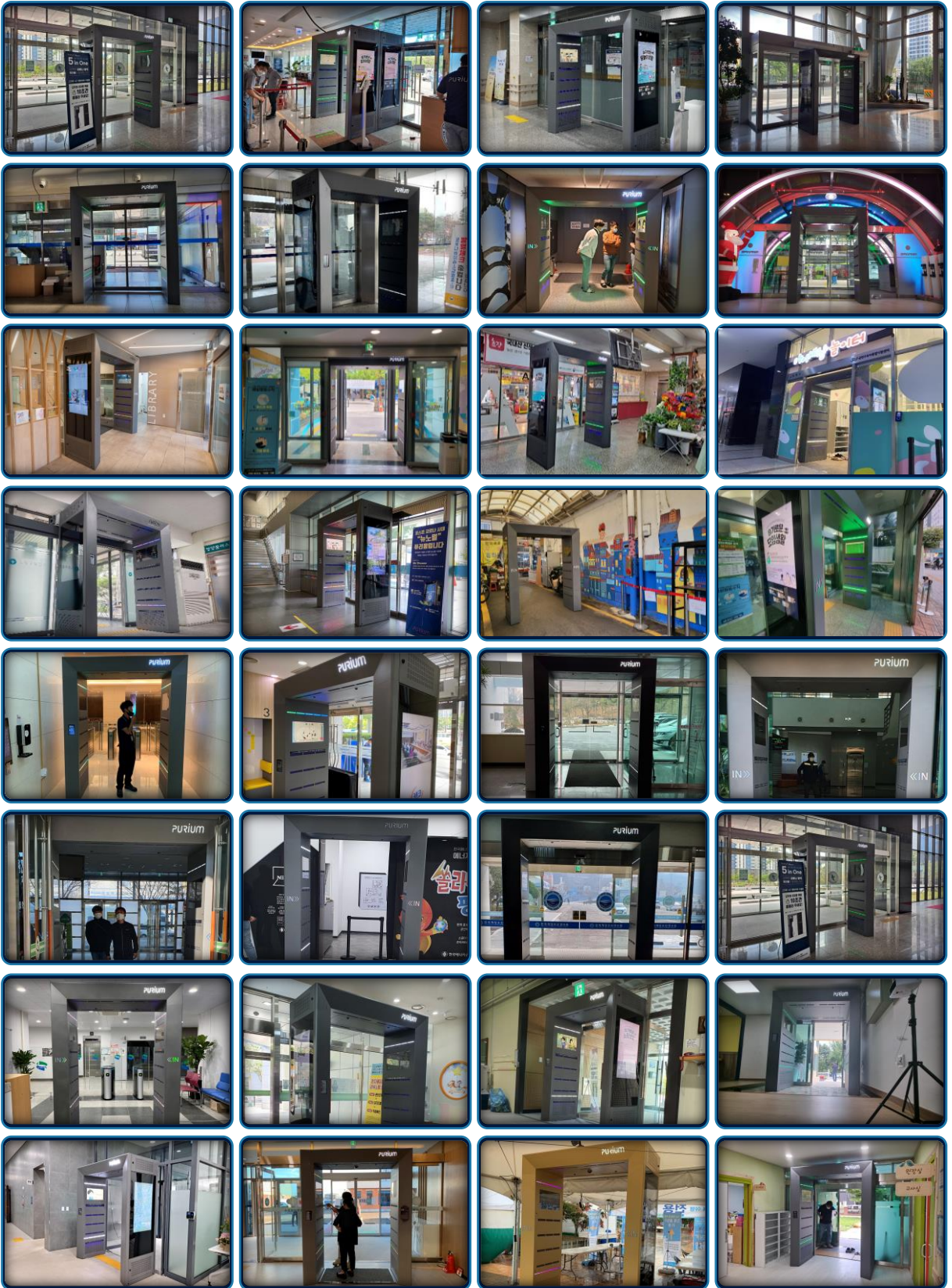
Clean and Safe environment for patient with Ministry of Health and Welfare	
Contract/ project title	Clean and Safe environment for patient with Ministry of Health and Welfare
Contracting Authorities	Ministry of Health and Welfare
Build up period	Oct.07.2021~Feb.04.2021
Scope of Work/Project Overview	Install in 4 medical facilities under the Ministry of Health and Welfare to manage air quality inside medical facilities and prevent infectious disease



Social Contribution Activities with Good Neighbors	
Contract/ project title	Social Contribution Activities with Good Neighbors
Contracting Authorities	Good Neighbors
Build up period	Since Aug. 2020
Scope of Work/Project Overview	Purium and Good Neighbors have signed a joint social contribution activity agreement. We provide 'Air Shower' air purifiers for free at Good Neighbors' activity welfare facilities.



 Reference I

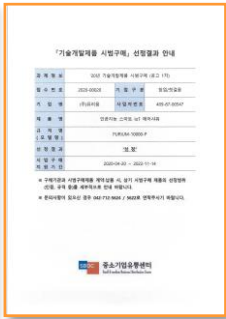




Patents and Certifications I Test Report



Innovative product



Technology Development product



Excellent invention



Patent Wind Blower



Patent Wind Blower



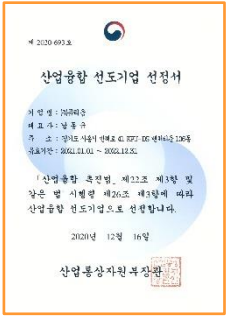
Brand register PURIUM



Patent Air shower gate



Design register Air shower



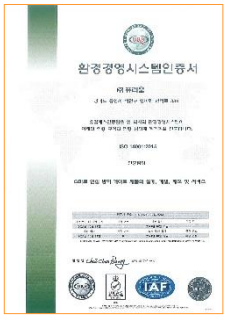
Industry Convergence company



Industry Convergence product



ISO 9001



ISO 14001



KC



CE



Good Design



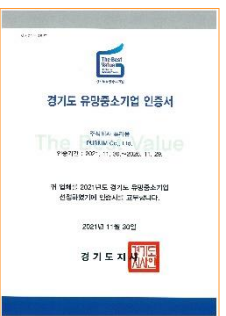
Inno-Biz Company



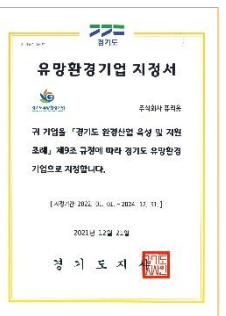
Main-Biz Company



Corporate R&D center



Gyeonggi Promising Company



Gyeonggi Promising Environment Company



Patents and Certifications I Test Report

As a result of the particle blocking test for H13 grade HEPA filter, it blocked more than 99.9%, Sterilization and antiviral test results for eco-friendly LED UV dual sterilizers (UV-A, UV-C), Appears to remove more than 99.9% of 6 types of bacteria, including E. coli, and corona viruses

KITECH 충청남도 천안시 서북구 당동면 당리리로길 99
 (주)케이티에스텍 TEL: 041-589-8114 | FAX: 041-589-8120 | www.kitech.co.kr

1. 설계서 번호: C20N23043-01
 2. 고객명: 주유회사 유리움
 3. 제품/시료명: Hepa Filter(H13 Grade)
 * 시험의뢰자가 제공한 시료 및 시료명에만 한정됩니다.
 4. 시험방법: 의뢰자 요청 시험법 (Modified US 42 CFR part61(2013))
 * Test Aerosol: NaCl
 * Flow rate: 32 L/min
 * No. of test: 3
 5. 시험결과:
 * Test aerosol
 * Test sample

Efficiency (%)	99.968
Penetration (%)	0.032
Resistance (mmH ₂ O)	3.7

HEPA filter test results (2020.04.22)

KCL KOREA CLEAN

시험성적서
 성적서번호: CT21-031650

시험항목	시험방법	시험결과 초기농도 (CFU/mL)	24시간 후 농도 (CFU/mL)	감소율 (%)	시험환경
항균시험: 대장균	BLANK 퓨리움 피톤치드 살균제	2.5 × 10 ⁴	7.7 × 10 ⁴	-	
항균시험: 녹농균	BLANK 퓨리움 피톤치드 살균제	2.5 × 10 ⁴	< 10	99.9	(37.0 ± 0.2) °C
항균시험: 황색포도상구균	BLANK 퓨리움 피톤치드 살균제	7.2 × 10 ⁴	9.2 × 10 ⁴	-	
항균시험: 황색포도상구균	BLANK 퓨리움 피톤치드 살균제	7.2 × 10 ⁴	< 10	99.9	(37.0 ± 0.2) °C
항균시험: 대장균	BLANK 퓨리움 피톤치드 살균제	3.2 × 10 ⁴	8.3 × 10 ⁴	-	
항균시험: 대장균	BLANK 퓨리움 피톤치드 살균제	3.2 × 10 ⁴	< 10	99.9	(37.0 ± 0.2) °C
항균시험: 대장균	BLANK 퓨리움 피톤치드 살균제	2.0 × 10 ⁴	6.8 × 10 ⁴	-	
항균시험: 대장균	BLANK 퓨리움 피톤치드 살균제	2.0 × 10 ⁴	< 10	99.9	(37.0 ± 0.2) °C
항균시험: 칸디다균	BLANK 퓨리움 피톤치드 살균제	1.8 × 10 ⁴	3.7 × 10 ⁴	-	
항균시험: 칸디다균	BLANK 퓨리움 피톤치드 살균제	1.8 × 10 ⁴	< 10	99.9	(37.0 ± 0.2) °C

* CPU: Colony Forming Unit
 * 측정농도(CFU/mL): 0농도
 * 사용균주: Escherichia coli ATCC 25922, Pseudomonas aeruginosa, Staphylococcus aureus
 * 시료: 대상품에
 * 반응시간: 24시간
 * 시험장소: 경기도 안성시 용암로

Phytoncide Sterilization Test (2021.04.08)

KTR 한국화학융합시험연구원

TEST REPORT

주 180회 영남고속도로(주) (주)한국화학융합시험연구원 TEL: 02-2614-0111 FAX: 02-2624-0088
 성적서번호: TRK-2020-00472 판 수 및 기: 2020년 08월 18일
 대표 자: 남영규 시험 방법 및 기: 2020년 08월 18일
 영 남 고속도로(주) 주 소: 서울특별시 송파구 송파대로 221, A동 18층 (주)한국화학융합시험연구원

시 료 명: LED 살균기 부품

시험항목	단위	시료구분	결과치	시험방법
살균시험(E. coli)	Log reduction	-	3.98	의뢰자제공시험방법
살균시험(S. aureus)	Log reduction	-	4.81	의뢰자제공시험방법
살균시험(B. cereus)	Log reduction	-	3.24	의뢰자제공시험방법
살균시험(B. subtilis)	Log reduction	-	3.15	의뢰자제공시험방법
살균시험(P. aeruginosa)	Log reduction	-	4.13	의뢰자제공시험방법
살균시험(S. typhimurium)	Log reduction	-	3.88	의뢰자제공시험방법

시험항목	단위	시료구분	결과치	시험방법
살균시험(E. coli)	대장균	Log reduction	99.9%	3.98 의뢰자제공시험방법
살균시험(S. aureus)	황색포도상구균	Log reduction	99.9%	4.81 의뢰자제공시험방법
살균시험(B. cereus)	호기성 그람양성간균	Log reduction	99.9%	3.24 의뢰자제공시험방법
살균시험(B. subtilis)	고초균	Log reduction	99.9%	3.15 의뢰자제공시험방법
살균시험(P. aeruginosa)	녹농균	Log reduction	99.9%	4.13 의뢰자제공시험방법
살균시험(S. typhimurium)	살모넬라균	Log reduction	99.9%	3.88 의뢰자제공시험방법

KTR 한국화학융합시험연구원
 KTR KOREA TESTING & RESEARCH INSTITUTION TEL: 02-2614-0111 FAX: 02-2624-0088

Sterilization Test (2020.08.18)

KTR 한국화학융합시험연구원

TEST REPORT

주 180회 영남고속도로(주) (주)한국화학융합시험연구원 TEL: 02-2614-0111 FAX: 02-2624-0088
 성적서번호: TRK-2020-00471 판 수 및 기: 2020년 08월 18일
 대표 자: 남영규 시험 방법 및 기: 2020년 08월 18일
 영 남 고속도로(주) 주 소: 서울특별시 송파구 송파대로 221, A동 18층 (주)한국화학융합시험연구원

시 료 명: LED 살균기 부품

시험항목	단위	시료구분	결과치	시험방법
항바이러스시험(Human respiratory syncytial virus)	Log reduction	-	3.50	ASTM E1053-20 준용
항바이러스시험(Rotavirus A)	Log reduction	-	4.00	ASTM E1053-20 준용
항바이러스시험(Human coronavirus)	Log reduction	-	3.50	ASTM E1053-20 준용

시험항목	단위	시료구분	결과치	시험방법
항바이러스시험(Human respiratory syncytial virus)	Human RS Virus	Log reduction	99.9%	3.50 ASTM E1053-20 준용
항바이러스시험(Rotavirus A)	Rota Virus	Log reduction	99.99%	4.00 ASTM E1053-20 준용
항바이러스시험(Human coronavirus)	Corona 229E Virus	Log reduction	99.9%	3.50 ASTM E1053-20 준용

KTR 한국화학융합시험연구원
 KTR KOREA TESTING & RESEARCH INSTITUTION TEL: 02-2614-0111 FAX: 02-2624-0088

antiviral test (2020.08.18)

Safe and clean indoor air is your right.

Purium, the leading ESG company, creates a safe indoor We are working hard to make it.



www.purium.kr

Copyright © 2022 PURIUM. All Right Reserved.