2020

Puresys, co., Ltd.

Company Infomation

C2114, KAIST, Munji-ro193, Yuseong-gu, Daejeon KOREA
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Puresys

Puresys Corporate Identity Guideline

C.I. Introduction

PURESYS CI represents the corporate philosophy seeking purity and cleaner environment. The blue wave gradation as the motif of clean air flow and circulation showcases its product concept and the environment that PURESYS envisions.

· 깨끗한 공기의 흐름 및 순환을 표현하고 자연친화적 회사의 기술을 표현
· 심플한 로고타입으로 공기 및 바람의 흐름을 모티프로 활용 용이

Puresys - Corporate & Brand identity

•Represents clean air flow or circulation, and eco-friendly corporate technology

•Easy to adopt simple logo style design as a motif of air and wind flows

slogan

Dreaming Puretopia

The environmental science technology of Puresys brings forward eco-friendly and human-centered "Puretopia"

Pure Air is a Human Right!

Puresys

1 Summary

01. History

2020
- Expert(Spain, Romania, Belgium, Netherlands, Turkey, Israel, Indonesia, South America)

2019
- United States Patent registration US 10,471,170 B2
- 2019 KAIST Excellent Firm

2018
- Patent registration 10-1867452
(AIR PURIFYING STERILIZER MODULE WITH IMPROVED CATALYTIC PERFORMANCE AND AIR PURIFYING STERILIZER INCLUDING THE SAME)

2017
- Promising Export Firm by the S&M Business Admin.
- Int. Public Procurement Support Pro.Sponsored by KOTRA

2016
- 2016 KAIST Excellent Firm
- Certificate of PATENT EU

2015
- 2015 KAIST Excellent Firm
- Certificate of PATENT PCT
- Viietnam Export

2014
- Patent registration (Deodorizing catalyst filter and air sterilizer having reproduction unit of it)
- Superior Invention selection(KOREA INVENTION PROMOTION ASSOCIATION)
- Expert Cote d'Ivoire
- Open Beijing, CHINA office

2013
- Selected as KOREA GOOD BRAND HIT500
- Certificate of Promising Enterprise
- KOREA Invention Patent AWARDS2013
- 2013 Best Trademark Right Awards
- Certificate of Quality Certification(Q-Mark)

2012
- Trademark Registration (PURESYS)
- Participated in International Medical Equipment Exhibition
- *GREEN GOOD DESIGN* AWARDS *2012*.
- Officially registered and approved as a Gov. Procurement Supplier

2011
- Venture Capital Certificate
- ISO 9001:2009/ISO9001:2008-Quality Mgmt System Certificate
- ISO 14001:2009/ISO14001:2004-Environment Mgmt System Certificate
- Patent registration 10-1069685 (Purifying Sterilization Module and adopted air purifier sterilizer)
- Winner of Good Design by MKE, KIDP
- Won Certificat De Conformité Européen (CE Certificate)

2010
- Moving in to the Daedeok INNOPOLIS approved
- Selected as Industry Knowledge Service Provider under MKE (Ministry of Knowledge Economy)
- Selected as Beneficiary of INNOPOLIS Total Design–Marketing Support by KME
- Selected as R&D Manager of Daejeon Techno Park's Technological Completeness

2009
- KAIST Academics-Corp cooperation approved
- Corp. Laboratory licensed and founded

03. Reference

삼성서울병원
서울시립서북병원
경기도의료원의정부병원
충남홍성의료원
서대문구보건소 코로나 긴급지원
대전서구보건소 코로나선별진료소
코로나종합상황실
인천보건소
정읍보건소결핵실
보성보건소
영광보건소
곡성보건의료원
철원군보건소 감염관리
부산동래구보건소 코로나감염관리
대전서구보건소 메르스 감염관리
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청주서원구보건소 감염관리
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인천부부내과 코로나 감염관리
공내과 코로나 감염관리
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구미 서울웰빙의원 코로나 감염관리
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대전태평클닉
대전드림내과
고양시장애인주간보호센터 외 다수

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제주VIP성형외과 수술실
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대구항시원외과 수술실
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천안교육청
강동송파교육청
강남서초교육청
서울남부교육청
서울율현초등학교
서울미래초등학교
서울세륜초등학교
천안신촌초등학교
천안두정초등학교
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구미선산초돌봄교실
안산고등학교
화성삼괴고등학교
경남의령초등학교
세종시 나래초등학교
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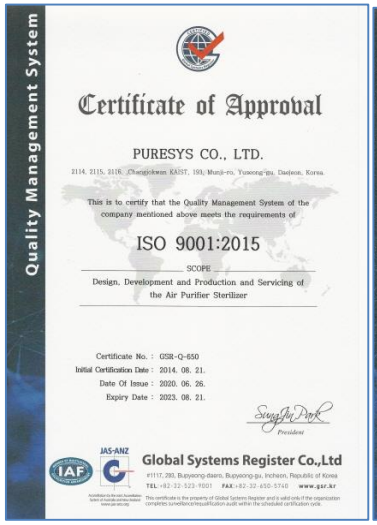
전남과학고등학교
순천효천고등학교
파주지산고등학교
양산제일고등학교 코로나감염관리
양산여자고등학교
양산여자중학교외 다수

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

2 Certification

01. Certification



1. GREEN GOOD DESGIN AWARDS 2012
(THE WOULD`S LEADING SUSTAINABLE GREEN DESIGN)

2. GoodDesign SELECTION

3. CE

4. ISO 9001 Certificate of Registration

5. ISO 14001 Certificate of Registration

6. Certificate of Quality Certification(Q-Mark)

7. Corp. Laboratory license

8. KAIST Excellent Firm

9. Venture Capital Certificate

10. United States PATENT

11. Certificate of TRADEMARK Registration

12. Certificate of DESIGN Registration

제 2010210019 호

기업부설연구소인정서

1. 연 구 소 명: (주)퓨어시스 부설연구소
[소속기업명: (주)퓨어시스]
2. 소 재 지: 대전 유성구 문지동 103-6 카이스트아이씨씨 에프 745
3. 신고연월일: 2009년 12월 9일
(최초인정일: 2010년 1월 15일)

기술개발촉진법 제16조 및 동법 시행령 제15조 제1항의 규정에 의하여 위와 같이 기업부설연구소로 인정합니다.

2010년 8월 6일

사단법인 한국산업기술진흥협회장

KAIST 우수기업

우수상
(Hidden Champion)

주식회사 퓨어시스
대표이사 이우영

귀 사는 KAIST 산학협력단 창업보육센터에서 시행한 '2019년도 입주기업 경영 성과평가' 결과, 우수한 경영성과를 달성하여 그 공로가 크므로 이 상장을 수여합니다.

2019년 11월 6일

산학협력단장 최 경 철

제 2017010289 호

벤처기업확인서

업 체 명 : (주)퓨어시스
대 표 자 : 이우영
소 재 지 : 대전광역시 유성구 문지로 193, 카이스트문지캠퍼스 창조관314,315,2116
확 인 유 형 : 기술평가보증기업(기술보증기금)
평 가 기 관 : 기술보증기금
유 효 기 간 : 2017년06월28일 - 2019년06월27일

위 업체는 벤처기업육성에관한특별조치법 제25조의 규정에 의하여 벤처기업임을 확인합니다.

2017 년 06 월 28 일

KIBO 기술보증기금 이사장

특 허 증
CERTIFICATE OF PATENT
특 허 제 10-1069685 호

특 허 증
CERTIFICATE OF PATENT
특 허 제 10-1419481 호

특허증
CERTIFICATE OF PATENT
특 허 제 10-1867452 호
재사용 축매성능의 개선방화유닛 오염과 이를 표방하는 개선방화유닛 장치
주식회사 퓨어시스(160111-*******)
대전광역시 유성구 문지로 193, 카이스트 ICC F745 (문지동)
이우영(690728-*******)
대전시 서구 도마동2 64, 501호 (도마동)
위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.
2018년 06월 07일
특허청장
COMMISSIONER, KOREAN INTELLECTUAL PROPERTY OFFICE
성 윤 모

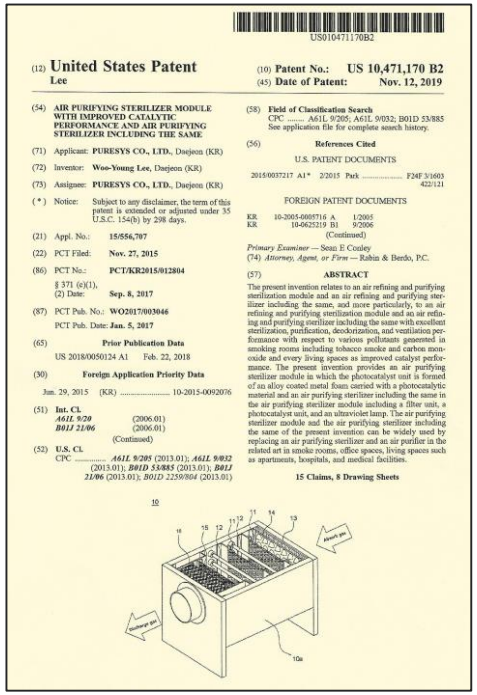
상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION
등 록 제 40-0899276 호
퓨어시스
PURESYS

United States of America
United States Patent and Trademark Office
퓨어시스
PURESYS
Reg. No. 4,479,337
Registered Feb. 11, 2014
Int. Cl.: 11
TRADEMARK
PRINCIPAL REGISTER

디자인등록증
CERTIFICATE OF DESIGN REGISTRATION
등 록 제 30-0699163 호

디자인등록증
CERTIFICATE OF DESIGN REGISTRATION
등 록 제 30-0753577 호

디자인등록증
CERTIFICATE OF DESIGN REGISTRATION
등 록 제 30-0832556 호
제30-2015-0012025 호
2015년 03월 10일
2015년 12월 24일
심 사 등 록
개인 휴대용 재떨 정화기
등록사항란에 기재
위의 디자인은 「디자인보호법」에 따라 디자인등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Design Protection Act, a design has been registered at the Korean Intellectual Property Office.
2015년 12월 24일
특허청장
COMMISSIONER, KOREAN INTELLECTUAL PROPERTY OFFICE
최 동 규



US010471170B2

(12) United States Patent
Lee

(10) Patent No.: US 10,471,170 B2
(45) Date of Patent: Nov. 12, 2019

(54) AIR PURIFYING STERILIZER MODULE WITH IMPROVED CATALYTIC PERFORMANCE AND AIR PURIFYING STERILIZER INCLUDING THE SAME

(71) Applicant: PURESYS CO., LTD., Daejeon (KR)
(72) Inventor: Woo-Young Lee, Daejeon (KR)
(73) Assignee: PURESYS CO., LTD., Daejeon (KR)
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 298 days.
(21) Appl. No.: 15/556,707
(22) PCT Filed: Nov. 27, 2015
(86) PCT No.: PCT/KR2015/012804
§ 371 (c)(1),
(2) Date: Sep. 8, 2017
(87) PCT Pub. No.: WO2017/003046
PCT Pub. Date: Jan. 5, 2017
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US 2018/0050124 A1 Feb. 22, 2018
(30) Foreign Application Priority Data
Jun. 29, 2015 (KR) 10-2015-0092076
(51) Int. Cl.
A61L 9/20 (2006.01)
B01J 21/06 (2006.01)
(Continued)
(52) U.S. Cl.
CPC A61L 9/205 (2013.01); A61L 9/032 (2013.01); B01D 53/885 (2013.01); B01J 21/06 (2013.01); B01D 2259/804 (2013.01)

(58) Field of Classification Search
CPC A61L 9/205; A61L 9/032; B01D 53/885
See application file for complete search history.
(56) References Cited
U.S. PATENT DOCUMENTS
2015/0037217 A1* 2/2015 Park F24F 3/1603 422/121
FOREIGN PATENT DOCUMENTS
KR 10-2005-0005716 A 1/2005
KR 10-0625219 B1 9/2006
(Continued)
Primary Examiner — Sean E Conley
(74) Attorney, Agent, or Firm — Rubin & Berdo, P.C.
(57) ABSTRACT
The present invention relates to an air refining and purifying sterilization module and an air refining and purifying sterilizer including the same, and more particularly, to an air refining and purifying sterilization module and an air refining and purifying sterilizer including the same with excellent sterilization, purification, deodorization, and ventilation performance with respect to various pollutants generated in smoking rooms including tobacco smoke and carbon monoxide and every living spaces as improved catalyst performance. The present invention provides an air purifying sterilizer module in which the photocatalyst unit is formed of an alloy coated metal foam carried with a photocatalytic material and an air purifying sterilizer including the same in the air purifying sterilizer module including a filter unit, a photocatalyst unit, and an ultraviolet lamp. The air purifying sterilizer module and the air purifying sterilizer including the same of the present invention can be widely used by replacing an air purifying sterilizer and an air purifier in the related art in smoke rooms, office spaces, living spaces such as apartments, hospitals, and medical facilities.
15 Claims, 8 Drawing Sheets

13. KOREA Invention Patent AWARDS2013

14. 2013 Best Trademark Right Awards

15. 2014 Superior Invention selection

16. Certificate of Promising Enterprise

17. Certificate of Commendation

No. of Certificate : 2019 Daejeon-Chungnam - 08

CERTIFICATE

This is to certify that the following company is designated as a 'Promising Small and Medium Enterprise in Export ' by Ministry of SMEs and Startups(MSS), Republic of Korea

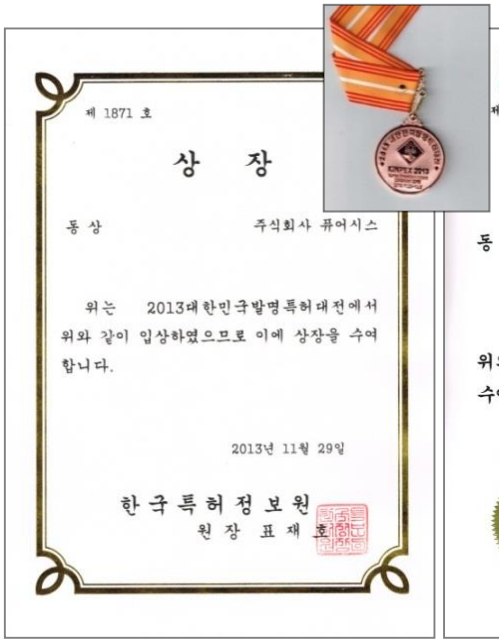
☐ Company : Puresys Co., Ltd.

☐ Representative : LEE WOO YOUNG

☐ Dedsignated Period : 2019. 07. 01. ~ 2021. 06. 30.(2 years)

Date of issue : 2019. 07. 01.

Issued by Daejeon-Chungnam Export Center, MSS



제 1871 호

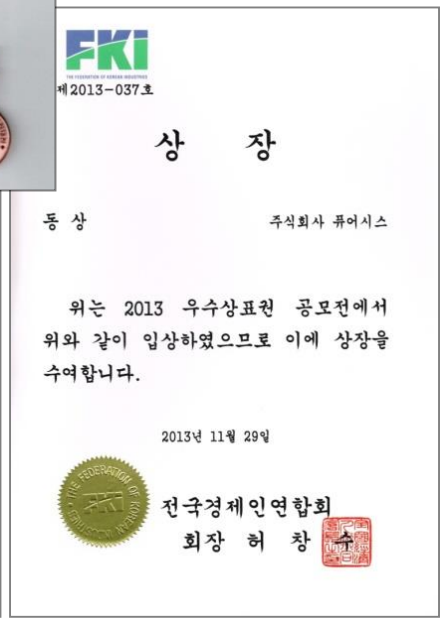
상 장

동 상 주식회사 퓨어시스

위는 2013대한민국발명특허대전에서 위와 같이 입상하였으므로 이에 상장을 수여합니다.

2013년 11월 29일

한국특허정보원
원장 표재호



FKI

제2013-037호

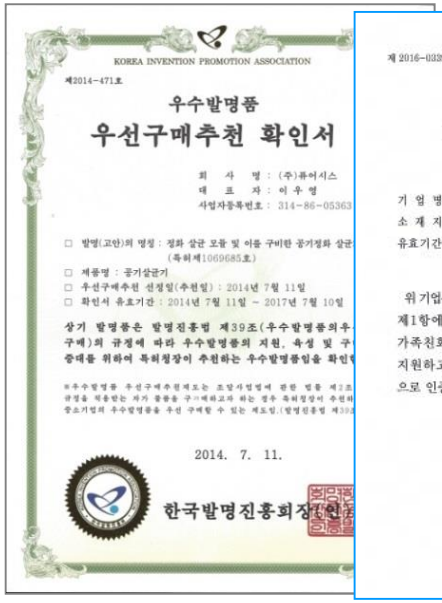
상 장

동 상 주식회사 퓨어시스

위는 2013 우수상표권 공모전에서 위와 같이 입상하였으므로 이에 상장을 수여합니다.

2013년 11월 29일

전국경제인연합회
회장 허 창 수



KOREA INVENTION PROMOTION ASSOCIATION

제2014-471호

우수발명품

우선구매추천 확인서

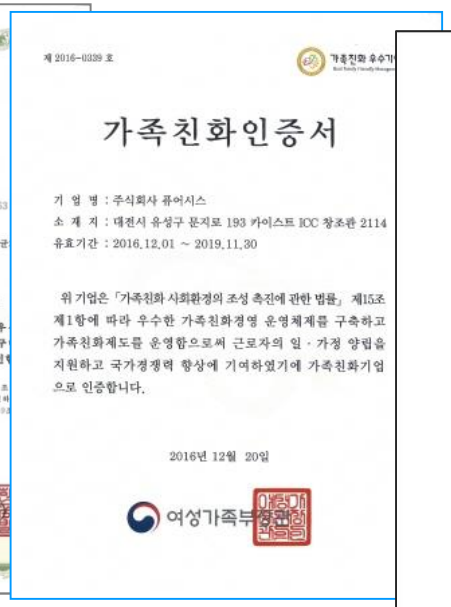
회 사 명 : (주)퓨어시스
대 표 자 : 이 우 영
사업자등록번호 : 314-86-05363

□ 발명(고안)의 명칭 : 정화 살균 모듈 및 이를 구비한 공기정화 살균
(특허제1069685호)
□ 제품명 : 공기살균기
□ 우선구매추천 선정일(추천일) : 2014년 7월 11일
□ 확인서 유효기간 : 2014년 7월 11일 ~ 2017년 7월 10일

상기 발명품은 발명진흥법 제39조(우수발명품의우선구매)의 규정에 따라 우수발명품의 지원, 육성 및 구매를 위하여 특허청장이 추천하는 우수발명품임을 확인

2014. 7. 11.

한국발명진흥회장



제 2016-0329 호

가족친화 우수기

가족친화인증서

기 업 명 : 주식회사 퓨어시스
소 재 지 : 대전시 유성구 문지로 193 카이스트 IOC 창조관 2114
유효기간 : 2016.12.01 ~ 2019.11.30

위 기업은 「가족친화 사회환경의 조성 촉진에 관한 법률」 제15조 제1항에 따라 우수한 가족친화경영 운영체제를 구축하고 가족친화제도를 운영함으로써 근로자의 일 · 가정 양립을 지원하고 국가경쟁력 향상에 기여하였기에 가족친화기업으로 인증합니다.

2016년 12월 20일

여성가족부장관

Registration No: 20170101295

P500 Project Certificate

Company	: Puresys
Business Registration No.	: 314-86-05363
Representative	: Lee Uyeong
Address	: 193, Munji-ro, Yuseong-gu, Daejeon, Korea
Validity Period	: 1st of Jan. 2017-31st of Dec. 2017

This is to certify that the company specified above is selected as a member of 'P500 Project', which is the international public procurement support program co-sponsored by KOTRA, Small & medium Business Corporation, Korea Trade Insurance Corporation, and The Export-Import Bank of Korea.

1st of January, 2017

The Steering Committee of the P500 Project

kotra SBC ksure 한국수출입은행

제 2013 - 23호

유망중소기

업 체 명 : (주)퓨어시스
소 재 지 : 대전광역시 유
대 표 자 : 이 우 영
주생산품 : 공기정화살
선정일자 : 2013. 9. 6.
유효기간 : 2018. 9. 5.

귀사를 21세기 창조적 유망중소기업으로 선 드립니다.

2013년

대 전 광

제 40828호

표 창

(주)퓨
대표이

귀하는 평소 창의 대전경제발전에 헌신 특히 해외 판로개척 경제활성화에 기여한 표창합니다.

2018

대전광역시장

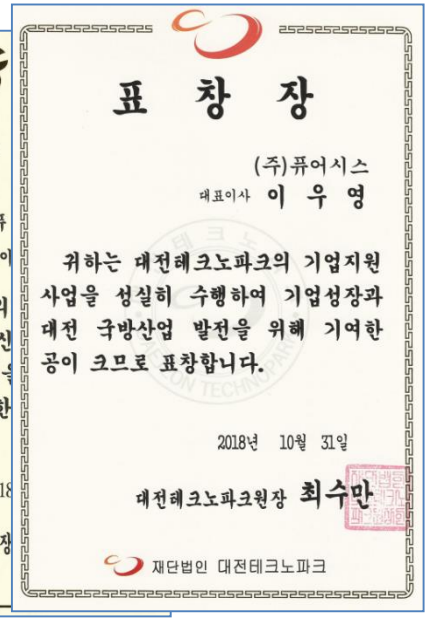


표 창 장

(주)퓨어시스
대표이사 이 우 영

귀하는 대전테크노파크의 기업지원 사업을 성실히 수행하여 기업성장과 대전 국방산업 발전을 위해 기여한 공이 크므로 표창합니다.

2018년 10월 31일

대전테크노파크원장 최수만

재단법인 대전테크노파크

18. Officially registered and approved as a Gov. Procurement Supplier

조 달 물 자 구 매 계 약 서(일반)

별첨 계약물품명세서, 다수공급자계약 추가특수조건, 다수공급자계약 특수조건 및 물품구매(제조)계약 일반조건을 완전히 숙지하고 이에 따라 다음과 같이 조달물자 구매계약을 체결하며 이를 충실히 이행할 것을 확약하고 기명 날인한다.

2012년 08월 09일

<계 약 자>

<발 주 처>	<계약상대자>
조달청 구매사업국	상 호 :주식회사 퓨어시스
조달물자분임계약관	주 소 :대전광역시 유성구 문지로 193, 카이스트 학부동F745 (문지동)
소핑물구매팀장 김승한	대 표 자 : 이우영
	사업자등록번호 : 314-86-05363
	주민 등록 번호 : 690728- ********
	전 화 번 호 : 042-863-0275
	팩 스 번 호 : 042-863-3531

과 장 : 김승한 (Tel : 070-4056-7287)

사무관/서기관 : 문홍섭 (Tel : 070-4056-7259) [수입인지 : 0 만원 첨부됨]

담 당 : 김성남 (Tel : 070-4056-7248)

계 약 방 법 :제한경쟁	국가(지방)계약법시행령 : 999조 99항 99호 0-백	계 약 구 분 : 제3자단가
계 약 번 호 :001281883-00	구매관리번호 : 00128007500	분 할 납 품 : 가
수 요 기 관 :각 수요기관	계 약 금 액 : 823,400,000	
품 명 : 공기살균기	계 약 보 증 금 : 24,702,000	
계 약 기 간 :2012/08/09 ~ 2013/06/30	납 품 기 한 : 납품요구후 30일	단 위 : 대
납 품 장 소 :수요기관 지정장소	인 도 조 건 : 현장설치도	수 량 : 500.000
검 사 기 관 :전문기관검사	검 수 기 관 : 수요기관	수 수 료 : 4,446,360
지 급 방 법 :대지급	[지체상금율 : 계약금액의	0.150 %/일]
하자담보책임기간 : 2년 간		
하자담보책임기간비고 :		
인지세과세대상여부 : Y	인지세액 :	150,000

1/5

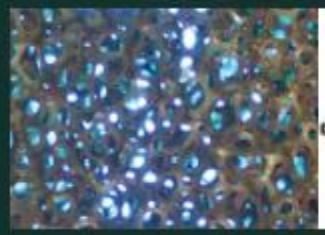
01. Applied Technology and Features(Patent10-1069685)

"Purifying Sterilization Module of Metal Foam and Selective Catalyst Technology and the Adopted Air Purifying Sterilizer"

Innovative AIR MAGIC sterilizing technology

PUREsys' original technology of AIR MAGIC perfectly gets rid of not only remaining germs and viruses but also ozone and harmful chemical gases after filtering minute dust particles with threefold filters and going through 11 stage of chain reaction of electro catalysis and chemical catalysis.

AIR MAGIC (METAL ASEPTIC GERMFREE ISOTROPY CATALYST)



When TiO_2 absorbs UV rays, electrons and h+ are produced inside anatasetype titanium dioxide

Electrons : Reacts with surface absorbed oxygen, produces super oxide negative ion (O_2^-)
H+ : Reacts with hydroscopic water and produces OH^-

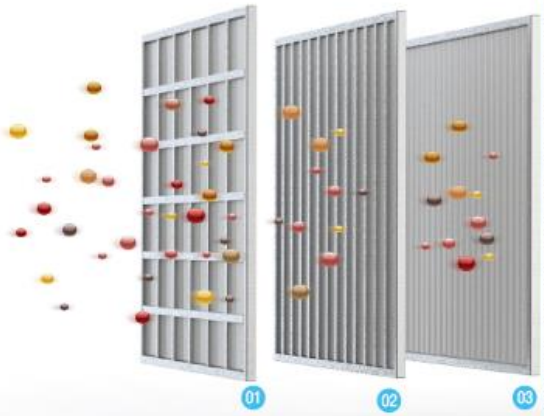
Organic matters resolved (decomposed) due to strong oxidizing power of activation

AIR MAGIC, air purifying and sterilizing technology, is PUREsys' own cutting-edge technology that removes of germs and viruses in the air, decomposes and eliminates bad odors and harmful chemical gases and gets rid of ozone with its special catalyst, going through chain reaction of electro catalysis and chemical catalysis with UV lamps after coating isotropic copper metal foam with titanium dioxide and special catalyst to minimize the contact surface with germs and harmful substances in the air. (Patent Number 10-1069685)

Chain reaction of sterilization due to sequential multiple metal forms and optional catalyst.

STEP 01

3 stage of perfectly purifying air



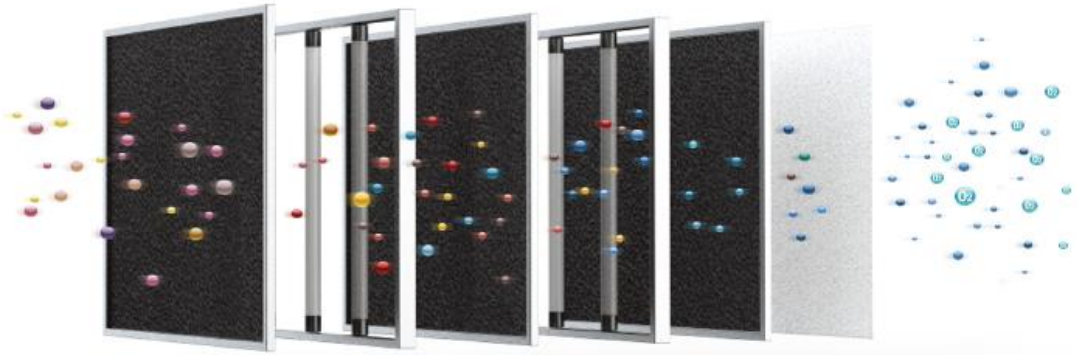
01 Washable Mesh Filter
big dust particles, hair, pet hair, yellow dust, pollen

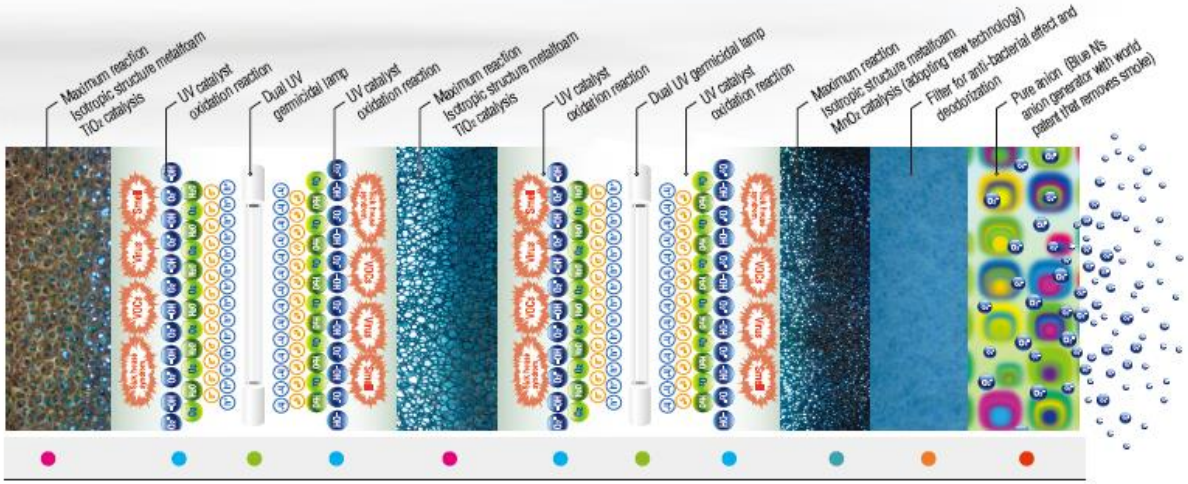
02 Carbon Filter
cigarette smoke, odors of bathroom, trash, pet and food

03 HEPA Filter
minute particles of yellow dust, minute dust particles, fungus, colon bacillus, volatile organic compound

STEP 02

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





- Self-antibacterial, blocks electromagnetic waves, removes allergens, harmful gases and bad smell, Sick house syndrom
- Sterilization(organic matter), decomposition of harmful chemical gases and deodorization by oxidation from optical reaction of UV and maximum efficient catalyst
- Sterilizes pathogenic bacterium and microorganisms
- Removes Ozone, carbon monoxide, pormaldehyde, nitrogen oxides, EO gas
- Removes antibiotic substances, bad smell, particles
- Patented worldwide ozone-free, nitrogenous compound-free, and pure negative ions provides deodorization and comfort, stengthens immunity, all around

03. Efficiency in Eradicating Airborne Bacteria

KO AS 01:2011Test Regulation-eradicate airborne bacteria in **60 minutes within 60m³**

ktl 한국산업기술시험원 Korea Testing Laboratory

Report No. : 12-043071-01-03

2 page of 2 pages

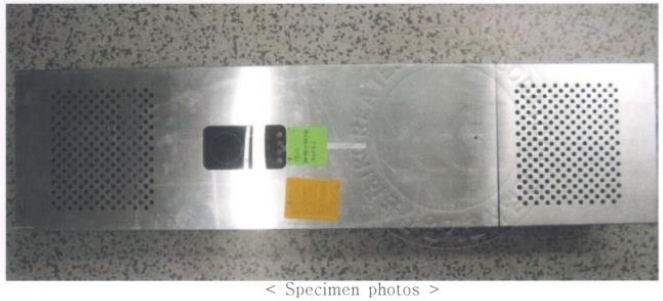
TEST RESULT

1. Decreased efficiency of Suspended bacteria

1) Test Result

Operation time	Flow level	Efficiency
60min.	Speed 1, Negative ion	97.9%

2) Photographs



< Specimen photos >

< HEPA Filter >

< Pre-Filter >

FP204-02-01

-2-

03. Efficiency in Eradicating Airborne Virus

KO AS 01:2011Test Regulation-eradicate airborne bacteria in **30 minutes within 60m³**

ktl 한국산업기술시험원 Korea Testing Laboratory

Report No. : 20-014511-01-1
Page of Pages : (2)/(2)

Test Results

1. Test Results

Reference and results / Unit	Reference value	Results
Air Purifier sterilizer	over 60 %	97.0 %

2. Test sample

(1) Manufacturer : Puresys Co., Ltd.
(2) Model name : all-in-one20(30)
(3) Serial number : ***

3. Test Method and Conditions

Test method	Conditions					
	Virus	Temp.	Humidity	Test Chamber	Test time	Air flow
KOUVA AS 02 : 2017	Phi-X174 (ATCC 13706-B1)	(23 ± 2) °C	(50 ± 5) % R.H.	60 m³	30 minute	level 3

4. Unit Photograph

- End of document -

FP104-08-00

※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

5 Product

04. Efficiency in Eradicating Harmful Gas

ktl 한국산업기술시험원 Korea Testing Laboratory

Report No. : 11-1300-58-1

2 page of 3 pages

Test Result

[1] Test Result

* Harmful Gas Removal Efficiency [%]

	30 min.	60 min.	90 min.	120 min.
Ammonia	96	96	96	96
Acetaldehyde	63	70	73	79
Acetic Acid	98	98	99	99
Toluene	100	100	100	100
Formaldehyde	93	95	96	97

[2] Test Air Sterilizer

(1) Model : ALL-IN-ONE 50

(2) Sources of Electricity : 220 V, 60 Hz

(3) Weight (kg) : 48

(4) Rated Consumption Power (W) : 150

(4) Size (mm) : 490 × 1,700 × 294

(5) Manufacturer : Puresys Co.,Ltd.

[3] Test Condition

Ambient Temperature [℃]	(23 ± 5)	Relative Humidity [%R.H.]	(55 ± 15)
Voltage [V]	(220 ± 2)	Test Mode	Strong Wind

* Harmful Gas Removal Efficiency does not consider the Effect of Natural Decay of Gas.

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

5 Product

05. Test Result of Ozone Emission(-0.004ppm)

Below 0 is considered undetected

Test Report

KESRI	Report No. : KESRI-OR-12-005-2
Bldg. 130, Seoul National University, 599 Gwanangno, Ganak-gu, Seoul TEL : 02-882-3397, FAX : 02-883-0827	Page (2) / (5) Pages

7.1 Specification of EUT

(1) Name : Air Sanitizer

(2) Model/Type : All-in-one50

(3) Quantity : 1 EA

7.2 Test Results

- Average (24 hours) : -0.005 ppm (Standard Deviation : 0.016), Max. : 0.046 ppm
- Averaged background level for the test (30 mins.) : -0.004 ppm

※ The ozone gas concentration is undetected if it states below 0

7.3 Test Apparatus

(1) Ozone monitor for low gas concentration (INUSA Co. Ltd. IN2000-L2-LC): 0 ~ 10 ppm

(2) Thermo-hygrostat chamber (Temperature: 23±2 ℃, Relative humidity: 50±5 %)

7.4 Test Method

(1) When operating the first thermo-hygrostat chamber, start preliminary operation until the condition of the normal operation (set up temperature ±2 ℃, set up relative humidity ±5 %) keeps over 30 minutes in sealed condition.

(2) Operate thermo-hygrostat chamber in sealed condition with ventilation rate 1.0(number of time)/hour(ventilate 100 % in an hour: set the aspirator and exhaust damper for 100%)

(3) Keep the ventilation rate 1.0(number of time)/hour with minimum open-air condition while operating the ozone monitor inhalation, put purity 80 % oxygen for 30 minutes through extraction teflon tube to purge the gas route inside of the monitor. And then lastly confirm the result of the normal UV lamp calibration after accomplish the calibration on the ozone monitor(by using lamp calibration function).

(4) Place the EUT on the table perpendicularly(reference figure 3.). After seal the chamber, ventilate for 30 minutes with the ventilation rate 1.0(number of time)/hour. The EUT is connected with power but should not be operating. Ozone gas extraction teflon tube should be place 50 mm distance from the EUT's discharge port, makes a right angle with the direction of discharge port where it should place horizontally with the EUT. All the preperations for the test should be recorded. Measuring instrument, EUT, temperature & humidity, extraction teflon tube and the distance between the EUTs must be recorded in picture.

(5) Reset the aspirator and exhaust damper to 0 %, re-seal the chamber, measure the density of background Ozone for over 30 minutes.

1. Air Purifier Sterilizer

Car Compatible Multi-TYPE(all-in-one MOBILE)

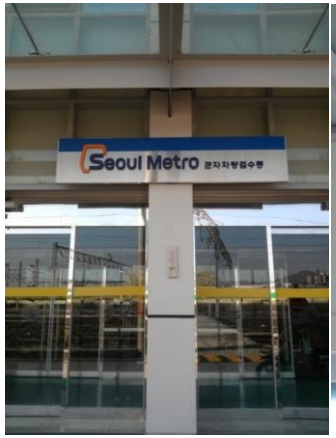
To be used in spaces like hospital wards, private office space, kids' study room, private study, bedroom, restroom, car, studio type bedroom, karaoke, indoor screen golf, etc

Cutting edge Technology Met with Design

Global Design Makes the Performance a Perfect Fit to Any Place

-Patent (10-1069685): state of the art metal foam multiple Nano catalyst technology applied
-Ozone 0% produced, further eradicates harmful ozone produced by peripheral equipments and convert them into oxygen
-Safe sterilization with safe metal foam structure maximizing the sterilization capability
-Perfect sterilization capability with 6 times of multi process
- Eradicate material produced from sick building syndrome(tvo's)
-Strong deodorization function
-Natural aroma therapy supply system
-Additional purifying sterilization and deodorization to every corner of the building with oxygen ion pump
-Strong but silent motor to distribute sterilized and purified air to every corner of the indoor space safe and clean
-Washable filter design with no maintenance cost
-Car compatible 12V adopter setting
-Soft but trendy LED light to check on the indoor air quality and the working system

SurfaceArea : 14m^2(172sq ft)
Size: 114*114*260mm
Power supply: 12V DC CigarJack for vehicle or 110/220V Adopter



WALL MOUNTING or FLOOR STANDING TYPE(all-in-one 20)

Cutting edge Technology Met with Design

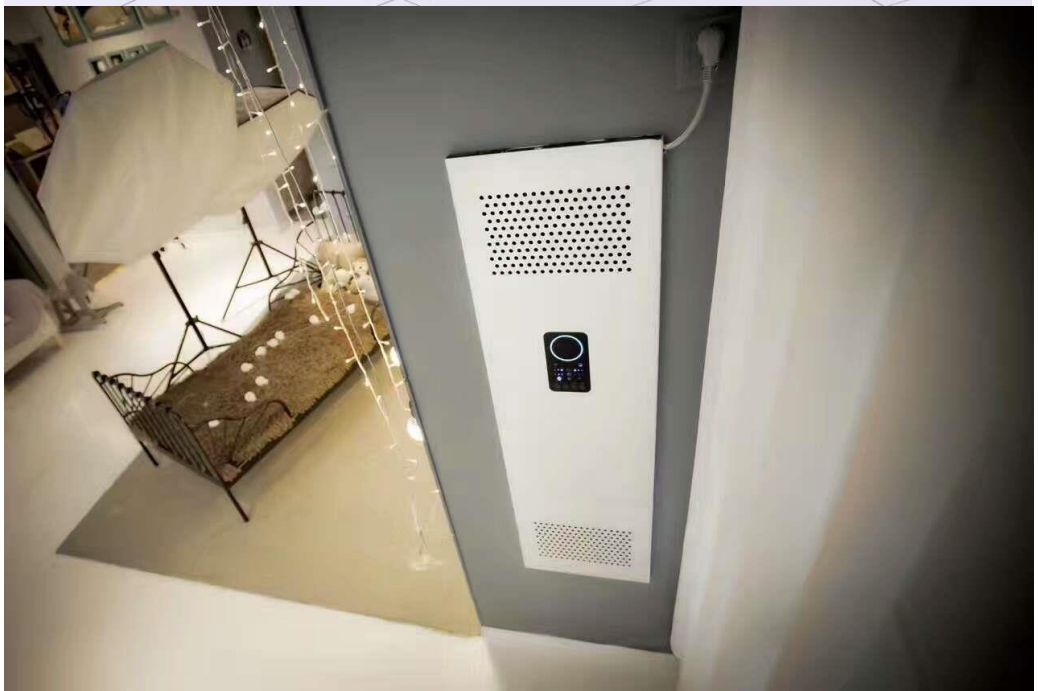
(THE WORLD'S LEADING SUSTAINABLE GREEN GOOD DESIGN)

Global Design Makes the Performance a Perfect Fit to Any Place

-Patent (10-1069685)Technology applied
-State of the art metal foam multiple Nano catalyst technology applied
-Ozone 0% produced, further eradicates harmful ozone(99%) produced by peripheral equipments and convert them into oxygen
-Safe sterilization with safe metal foam structure maximizing the sterilization capability
-Perfect sterilization capability with 11 times of multi process
-Eradicate material produced from sick building syndrome(tvo's)
-Strong deodorization function
−Additional purifying sterilization and deodorization to every corner of the building with oxygen ion pump
-Strong but silent motor to distribute sterilized and purified air to every corner of the room safe and clean
-washable filter design with low maintenance cost
-Soft but trendy LED light to check on the indoor air quality and the working system
-Total design product process (design by Tangerine)

SurfaceArea: 66m^2(710sq ft)
Size: 600(W)*154(D)*620(H)mm
Max Power Consumption : 70W
Power supply: 220~240V AC
Procurement Serial No: 22316495

BUILT-IN TYPE(all-in-one 30)



Cutting edge Technology Met with Design
Global Design Makes the Performance a Perfect Fit to Any Place

- Patent (10-1069685) Technology applied
- State of the art metal foam multiple Nano catalyst technology applied
- Ozone 0% produced, further eradicates harmful ozone (99%)produced by peripheral equipments and convert them into oxygen
- Safe sterilization with safe metal foam structure maximizing the sterilization capability
- perfect sterilization capability with 11 times of multi process
- Eradicate material produced from sick building syndrome(tvo's)
- Strong deodorization function
- Additional purifying sterilization and deodorization to every corner of the building with oxygen ion pump
- Strong but silent motor to distribute sterilized and purified air to every corner of the room safe and clean
- Washable Filter design considering low maintenance cost
- Soft but trendy LED light to check on the indoor air quality and the working system

SurfaceArea: 66m^2(710sq ft)
Size: 340(W)*165(D)*1210(H)mm
Max Power Consumption : 70W
Power supply: 220~240V AC
Procurement Serial No: 22316496

-BUILT-IN TYPE(PUREAIR all-in-one 30)

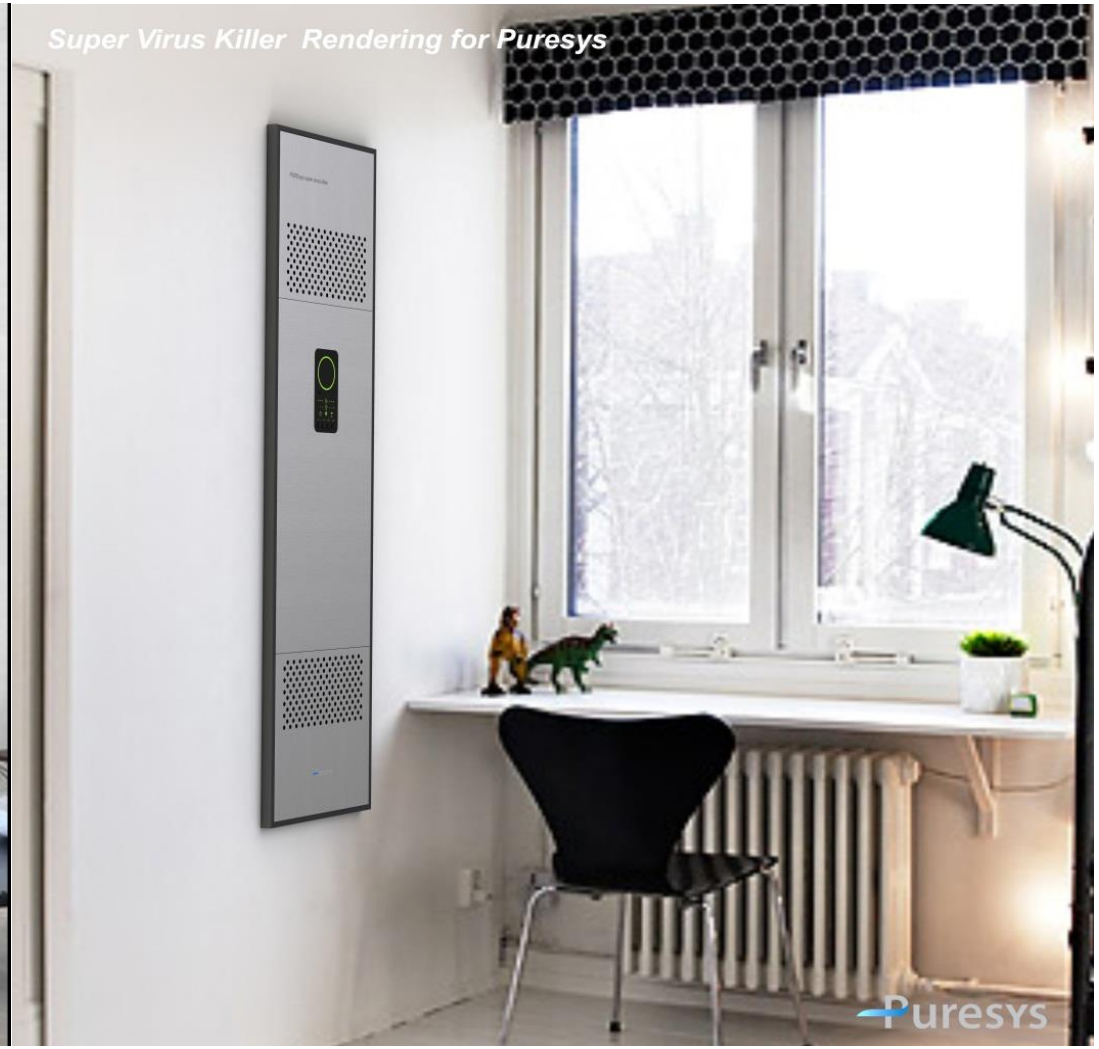
-SIZE

340(W)*1210(H)*165(D)mm

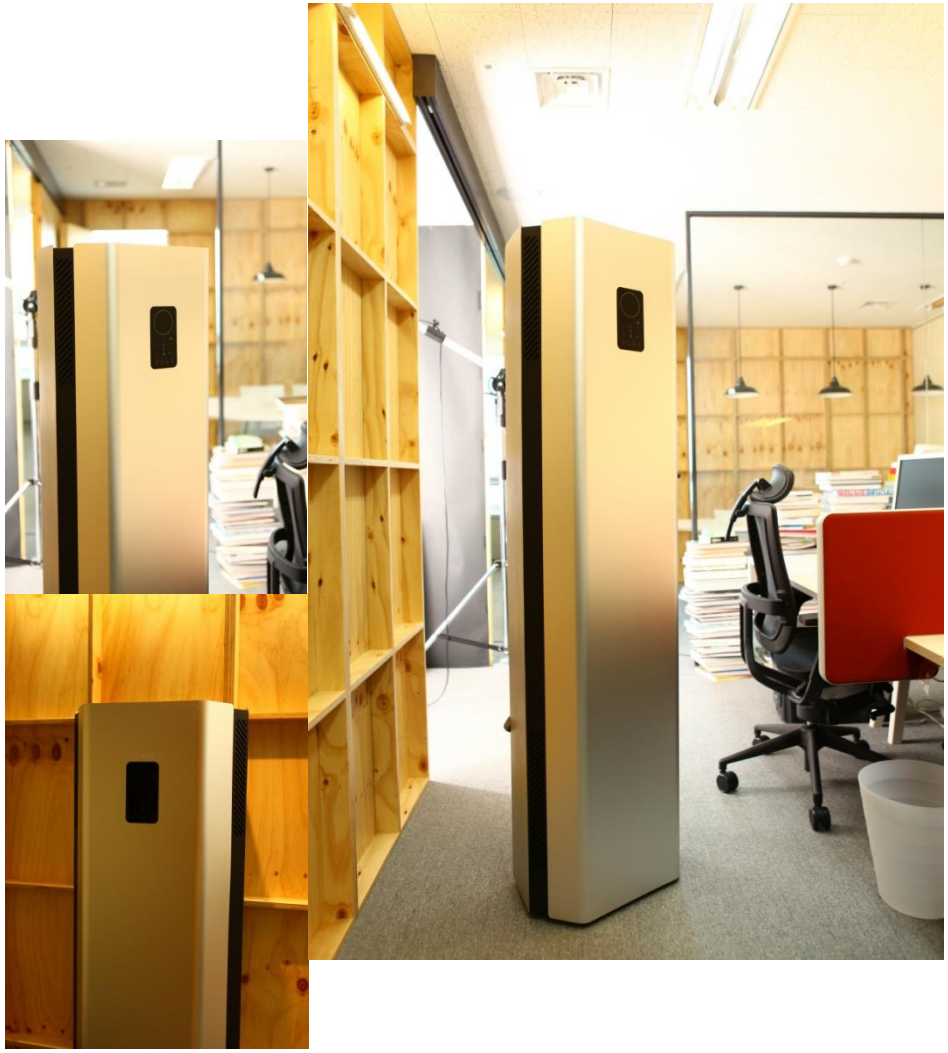
-INCOMING SIZE

300(W)*1170(H)*140(D)mm

-BUILT-IN TYPE(PUREAIR all-in-one 30)



FLOOR STANDING TYPE(all-in-one 50)



Cutting Edge Technology Met with Design

(THE WORLD'S LEADING SUSTAINABLE GREEN GOOD DESIGN)

Global Design Makes the Performance a Perfect Fit to Any Place

- Patent (10-1069685)Technology applied
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- Ozone 0% produced, further eradicates harmful ozone(99%) produced by peripheral equipments and convert them into oxygen
- Safe sterilization with safe metal foam structure maximizing the sterilization capability
- Perfect sterilization capability with 11 times of multi process
- Eradicate material produced from sick building syndrome(tvo's)
- Strong deodorization function
- Additional purifying sterilization and deodorization to every corner of the building with oxygen ion pump
- 3 way circulation to distribute sterilized and purified air to every corner of the room safe and clean
- Considerate design taken mobility into account
- Soft but trendy LED light to check on the indoor air quality and the working system
- Total Design Product Process (design by Tangerine)

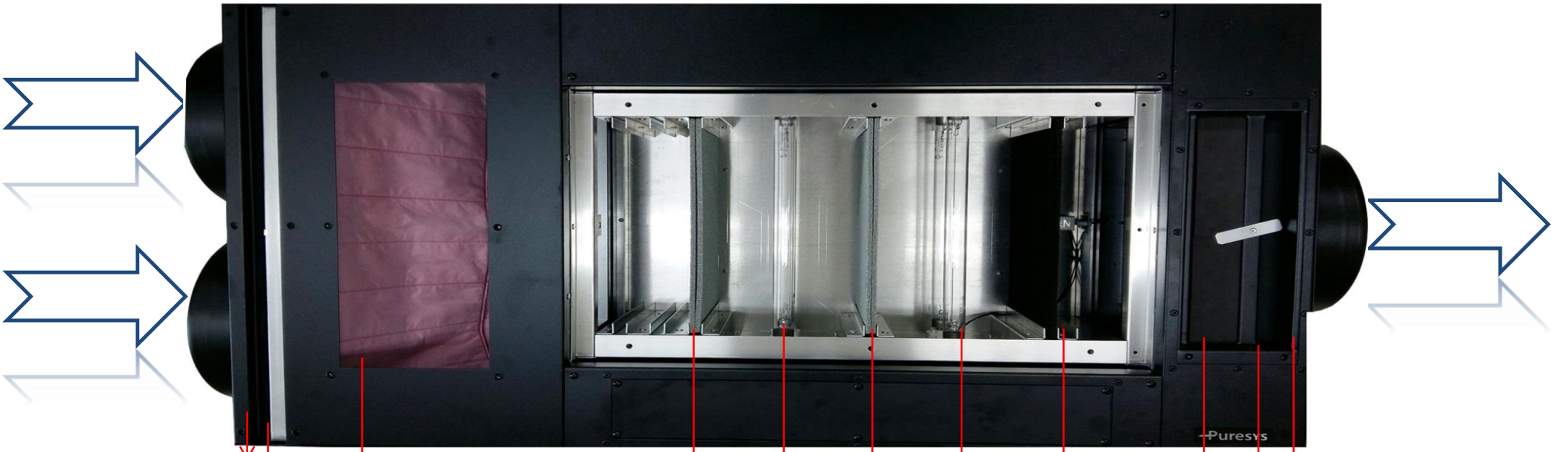
SurfaceArea: 165m²(1774sq ft)
Size: 490(W)*294(D)*1700(H)mm
Max Power Consumption : 180W
Power supply: 220~240V AC
Procurement Serial No: 22316497

2. Smoke Control for Smoking booths

PUREsys' Types of Air Purifier Sterilizer for Smoking booths

Model	(*developing*)	SM10	SM31
Producer	PUREsys Co., Ltd.		
Power Supply	**AC100~240V/50~60HZ**		
Power Consumption	Max 120W	Max 30W	Max 50W
Size(mm)	W340*H1100*D340	W386*H247*D146	W600*H1190*D300
Fan airflow	9CMM	0	0
RoomSpace	10㎥	5㎥(same the all-in-one20)	20㎥(same the all-in-one50)

PUREsys' Air Purifier Sterilizer for Smoking booths: Configuration and Layout



Washable PRE FILTER

NON-WOVEN CARBON FILTER

(BAG) HEPA FILTER

Maximally responding isotropic structure of metal foam (TIO2) catalyst

UV-LAMP

Maximally responding isotropic structure of metal foam (TIO2) catalyst

UV-LAMP

Maximally responding isotropic structure of metal foam (Specia) catalyst

Low-temperature deodorizing catalysts

Eco-friendly solid air-fresheners

Produces anion with no ozone generation

STEP 01

3 Stages of Perfectly Purifying Air

STEP 02

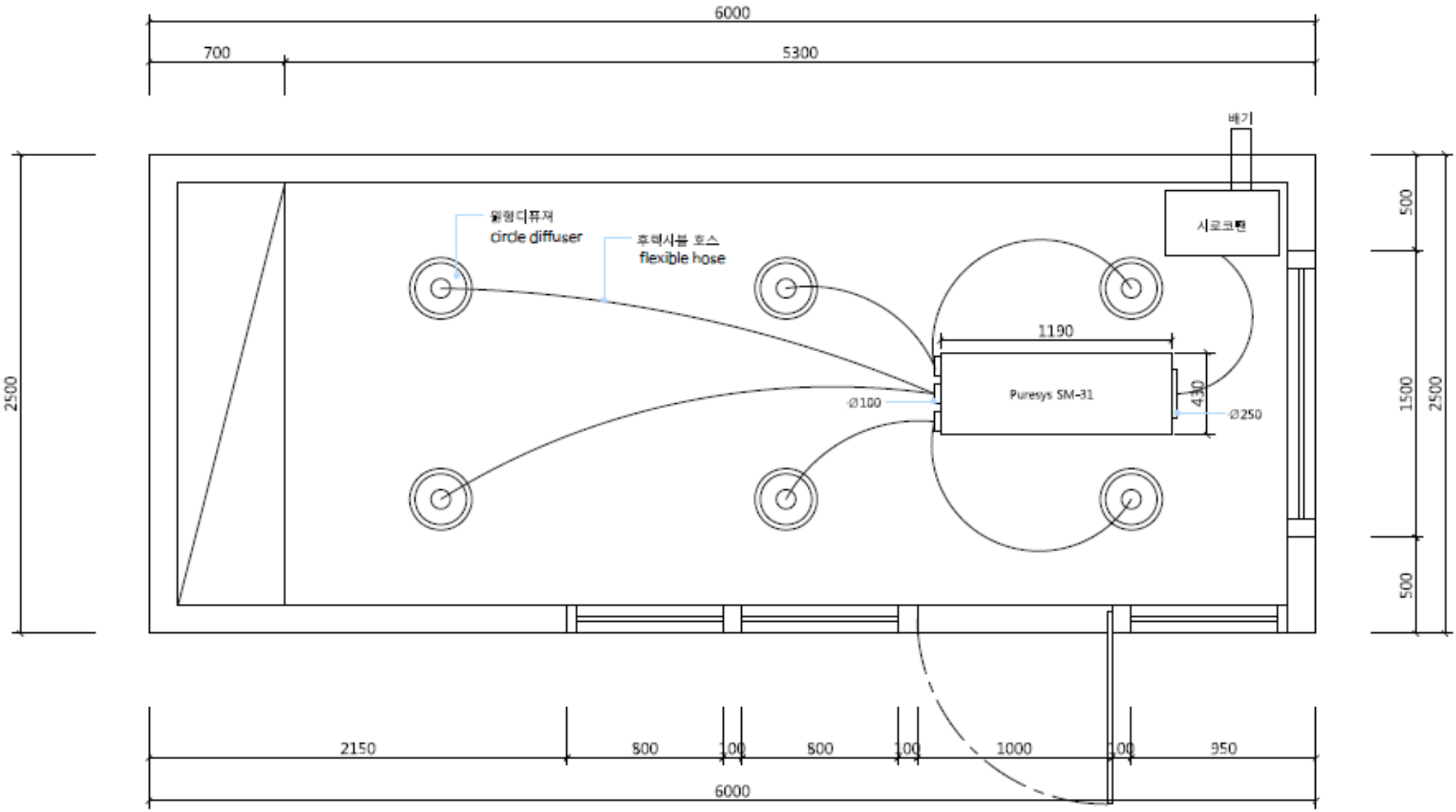
9 stages of chain reaction of sterilization, deodorization and decomposing harmful gases

STEP 03(Option)

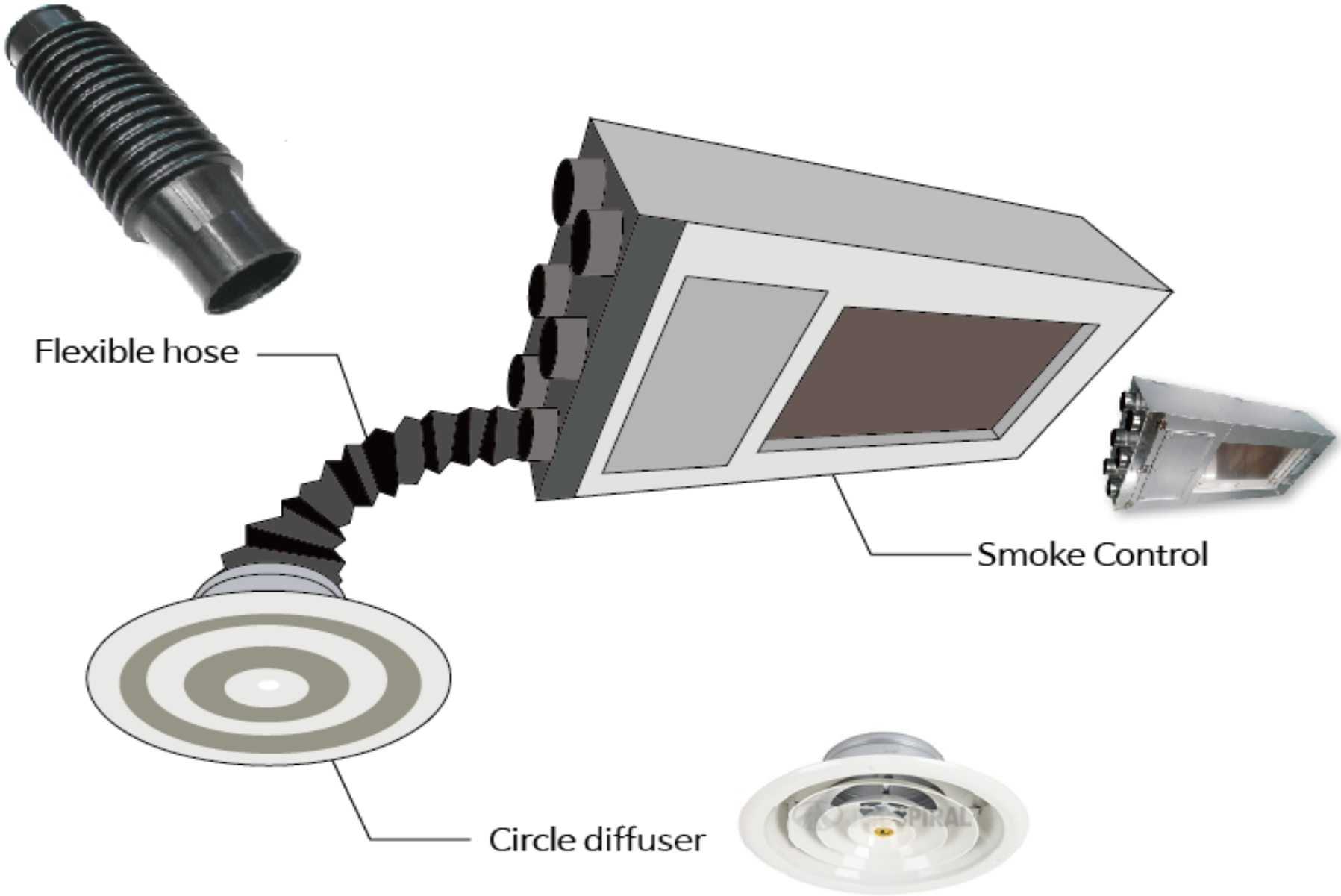
3 stages of chain reaction of deodorization, purification with natural aroma therapy and provision of air vitamin

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

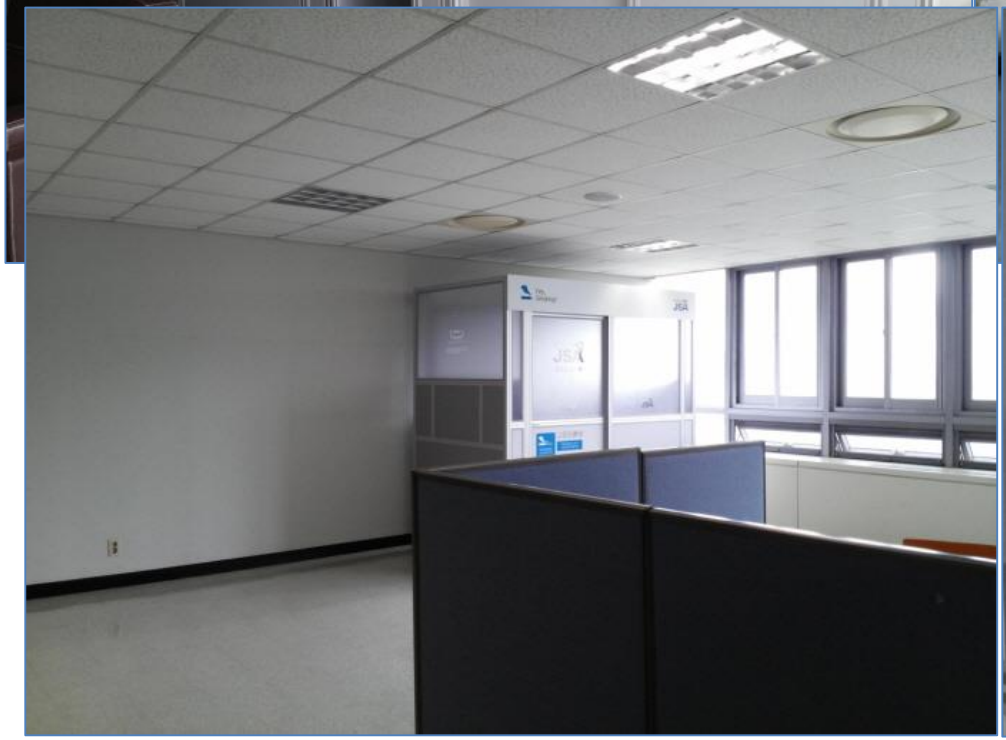
- Smoking Booth



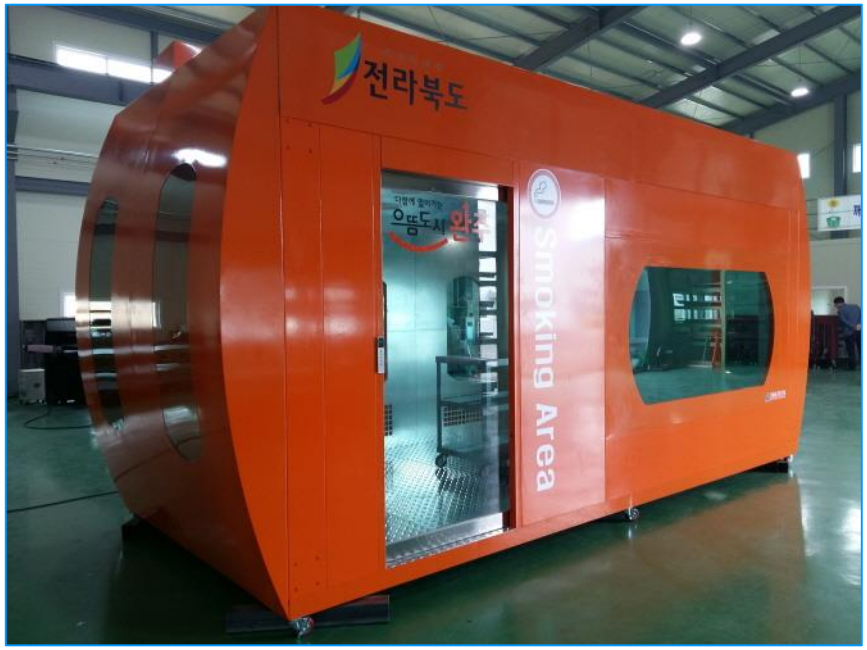
- Smoking Booth



- Smoking Booth



- Smoking Booth



▶ Seoul Metro, Car, bus, Baby room

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Elevator–preventation of infection

▶ Baby`s room

▶ Car

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ BUS STATION SHELTER

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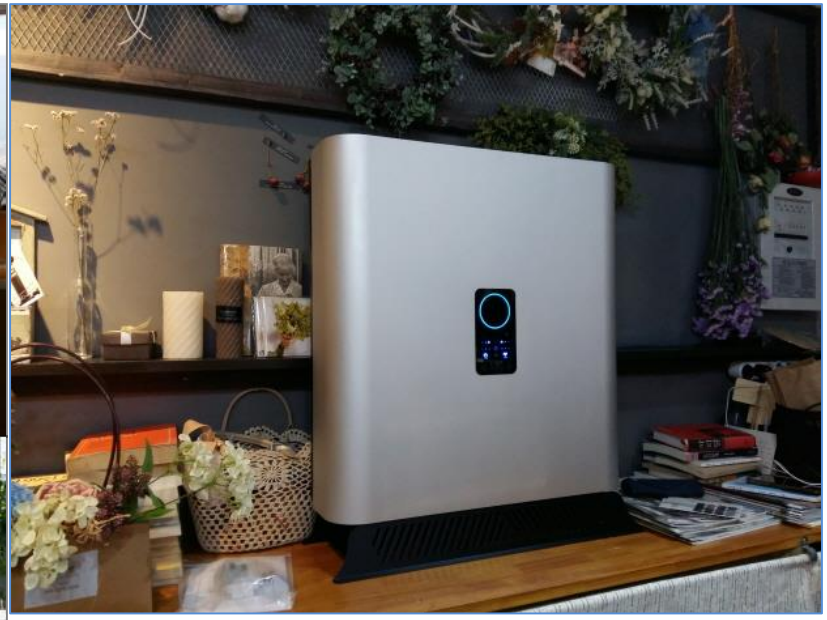
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Korea Invention Promotion Association CHAIRMAN ▶ LS GROUP CHAIRMAN

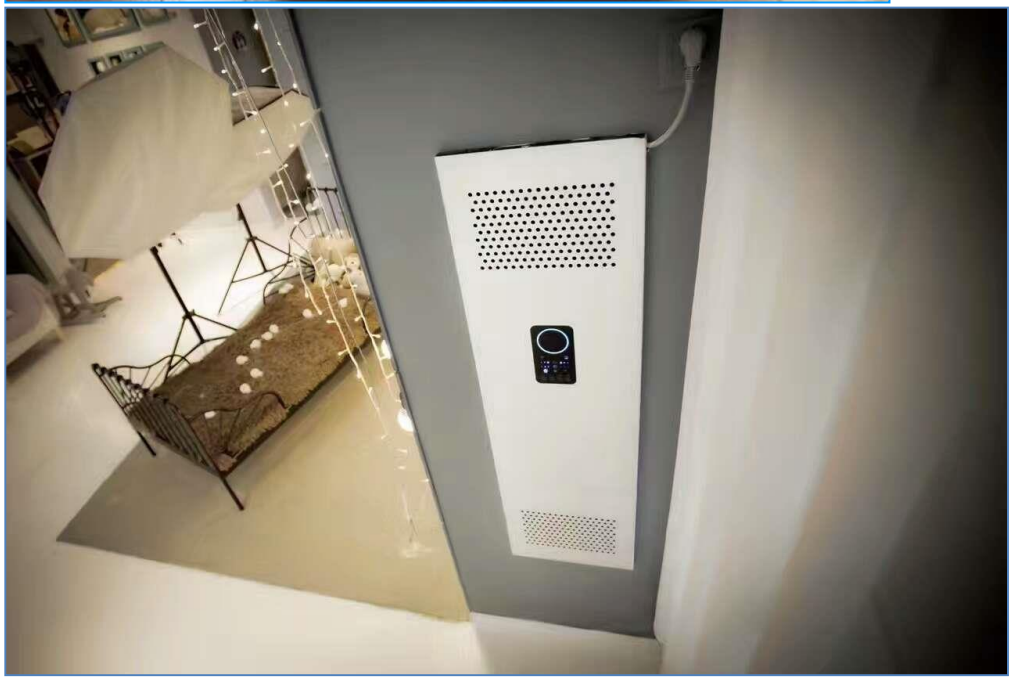
▶ LS networks ▶ GUMI Hydrofluoric acid Hazard ▶ Schools, Kindergartens



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ CHINA Beijing Babys room

▶ CHINA Beijing Baby`s Studio



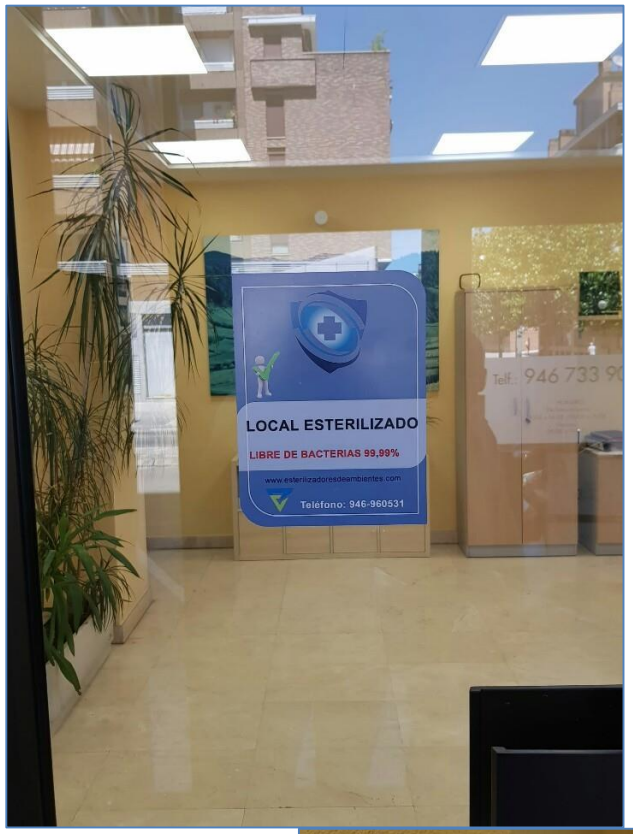
PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

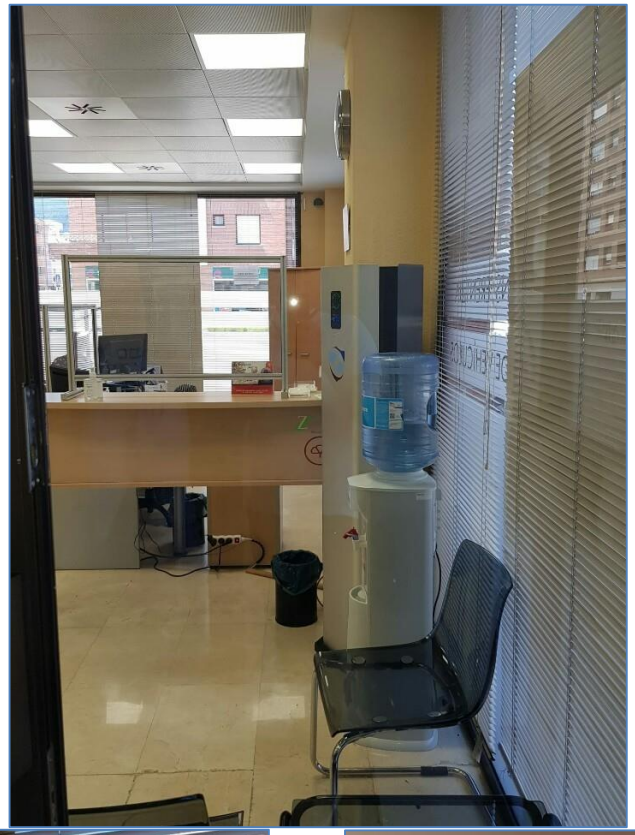
▶ VIETNAM Binh Dinh, Quy Nhon City PHU CAT New Airport

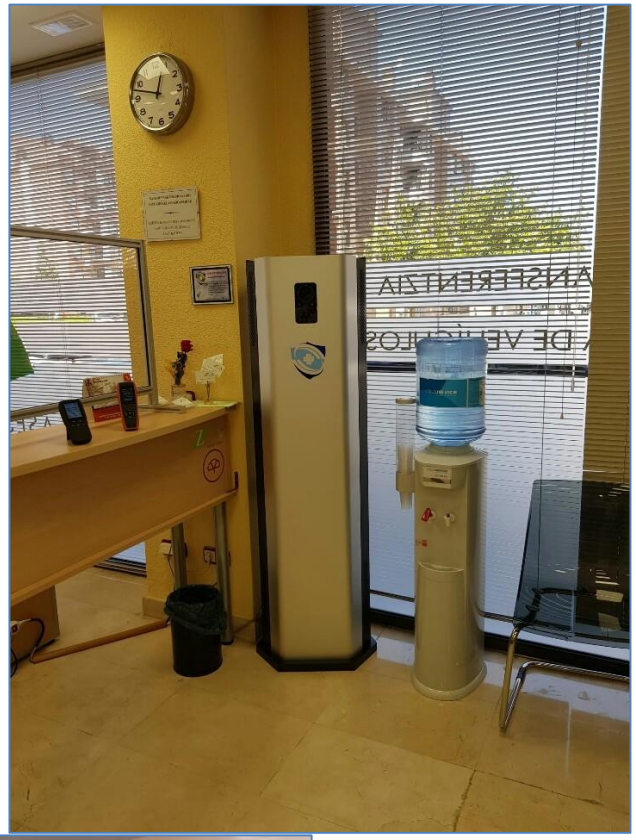
▶ VIETNAM Vincom Group(17Set)

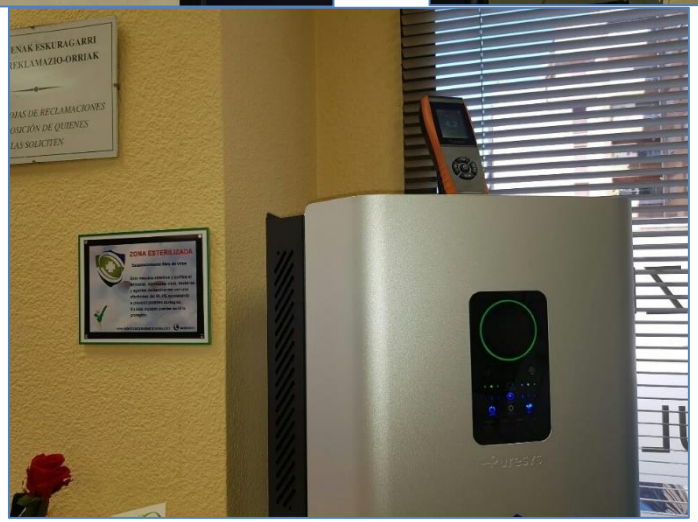
PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

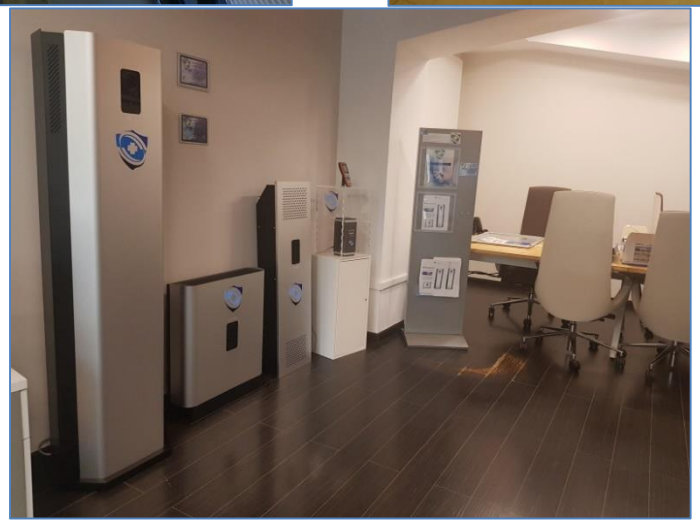
SPAIN HOTEL LAS BRISAS











▶ BURGER KING in Spain

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Seoul Gangnam YOULHYUN Elementary School

▶ Seoul MIRAE Elementary School

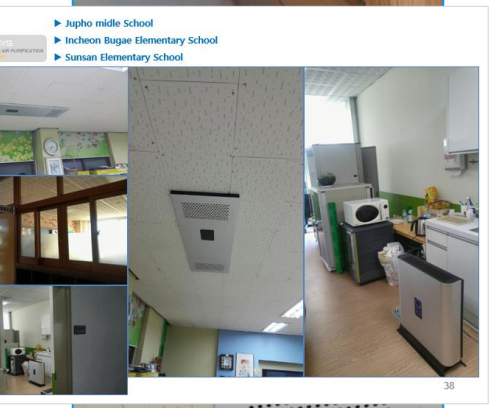
▶ Seoul SERYUN Elementary School

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Cheonan SINCHON Elementary School

▶ Cheonan DUJEONG Elementary School

▶ Cheonan SINDAE Elementary School

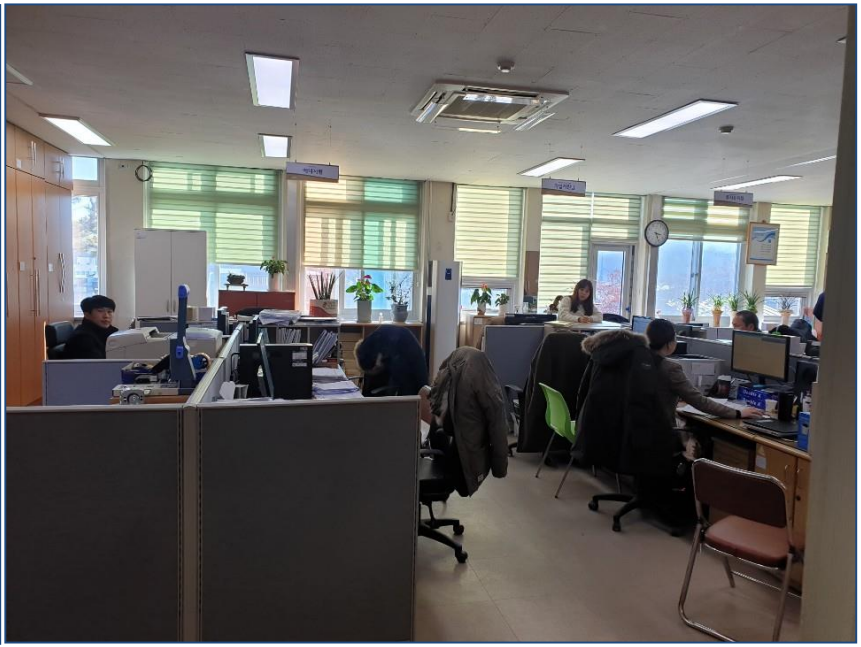


PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

- ▶ Jupho midle School
- ▶ Incheon Bugae Elementary School
- ▶ Sunsan Elementary School

PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

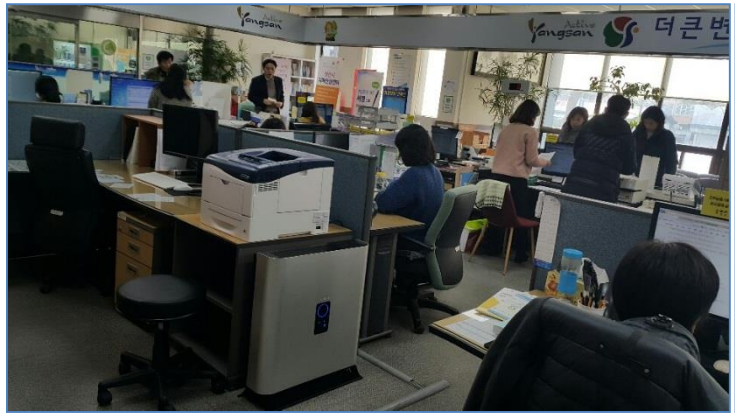
▶ GEUMSAN COUNTY OFFICE – Crona Virus infection prevention

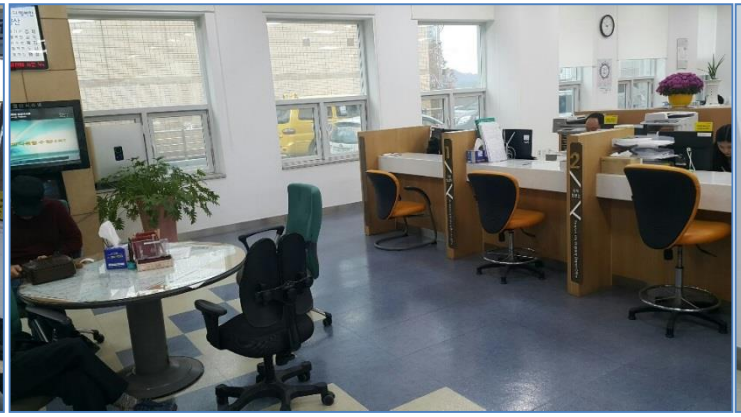


PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ YANGSAN CITY OFFICE

▶ REAL ESTATE OFFICE





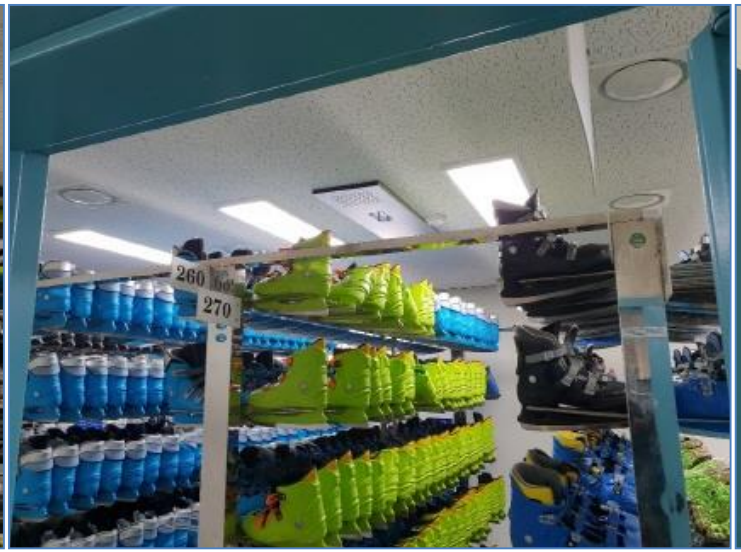
PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Badminton club

▶ Table tennis club

▶ Gym

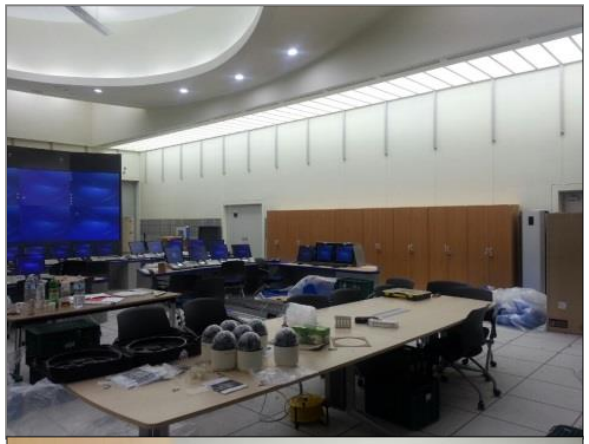
▶ ICE SKATING LINK

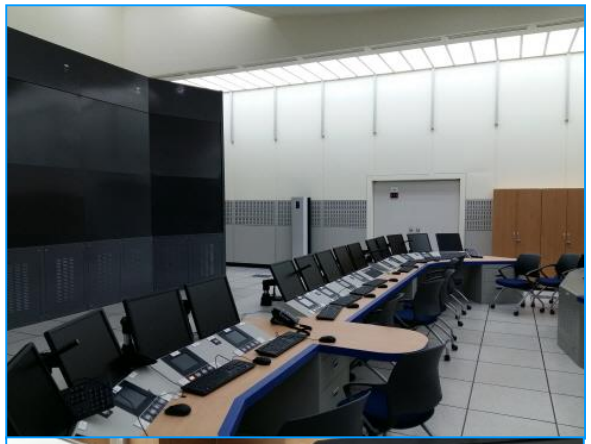


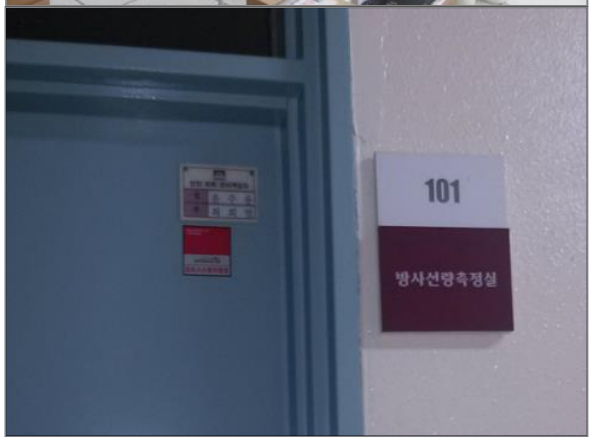
PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

KOREA INSTITUDE OF NUCLEAR SAFETY

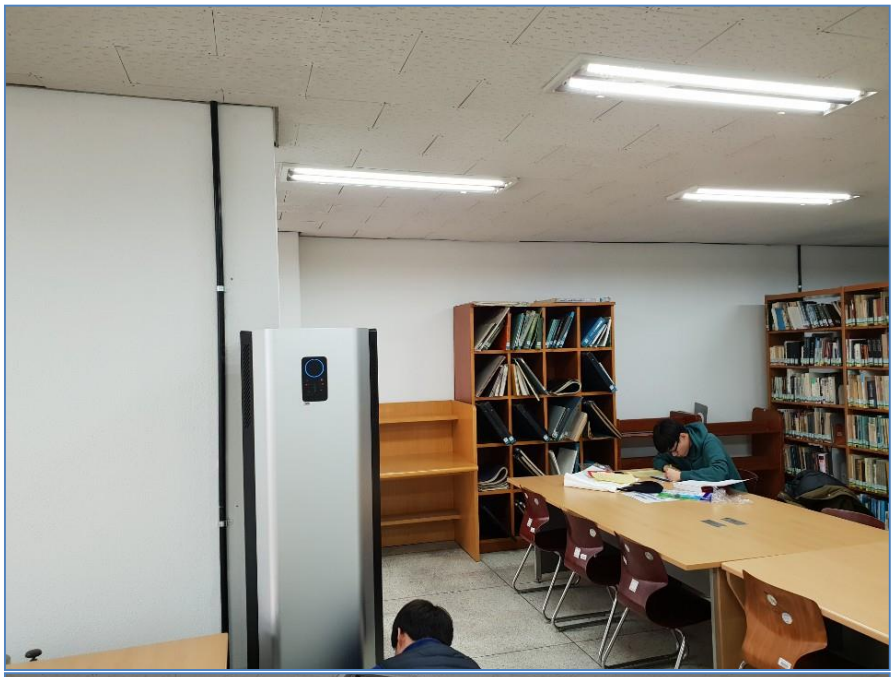
- Control tower, LAB.





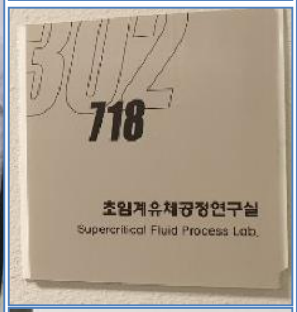


▶ University of SEOUL(Library, Lab)



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

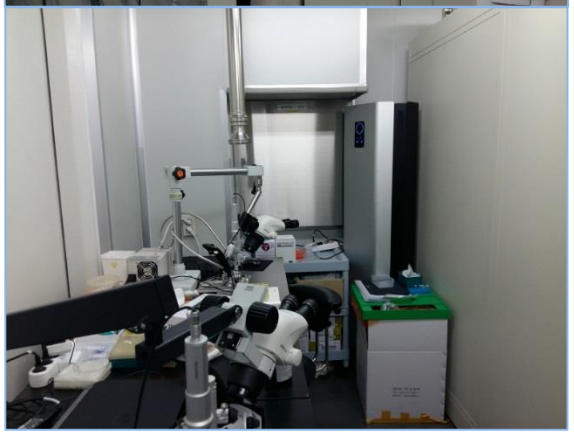
Seoul National University – chemical gases



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

Seoul National University NICEM

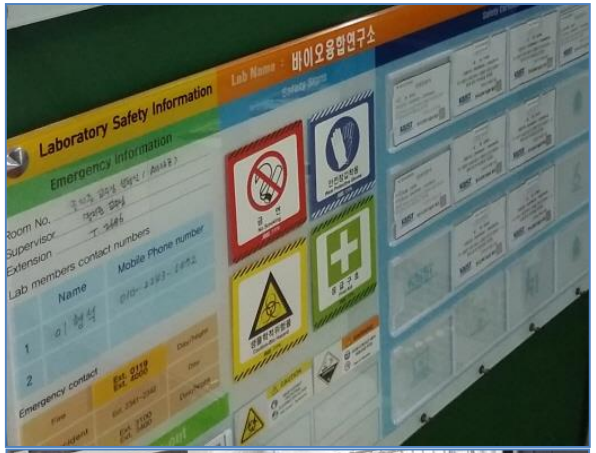
Institute for Basic Science



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ KAIST Institute for BioCentry Laboratory Rats Facility

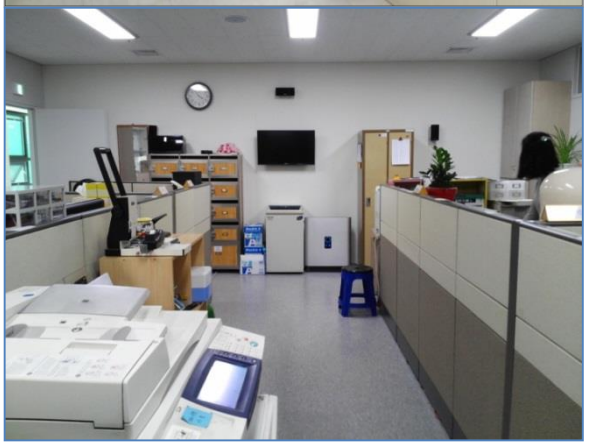
▶ KAIST EED Lab.



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

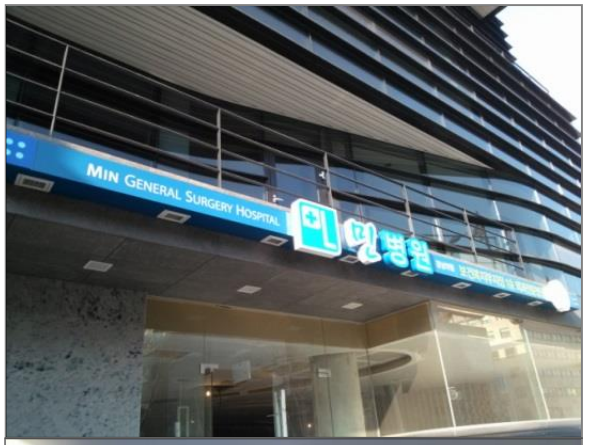
▶ RURAL DEVELOPMENT ADMINISTRATION(RDA)

▶ Paste Lab.

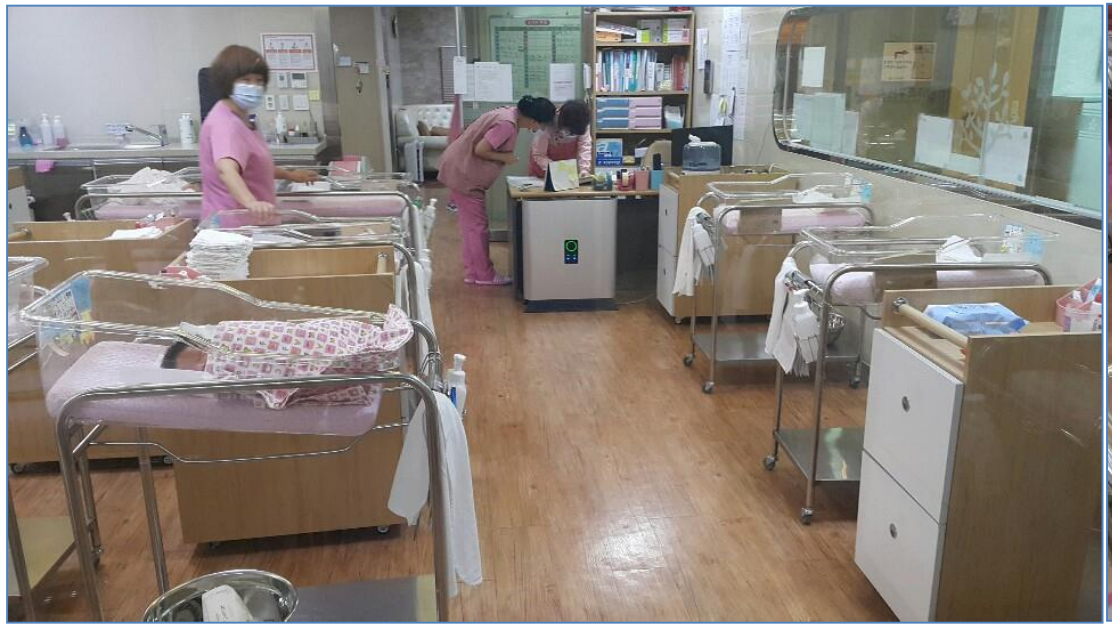


PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

- MIN GENERAL SURGERRY HOSPITAL
- Bell-Rajue *postpartum care center, Women's Clinic*
- Hosptals, Medical room

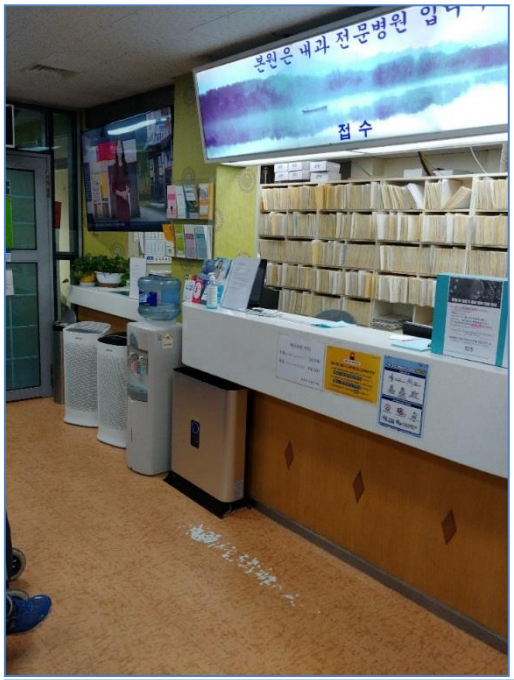


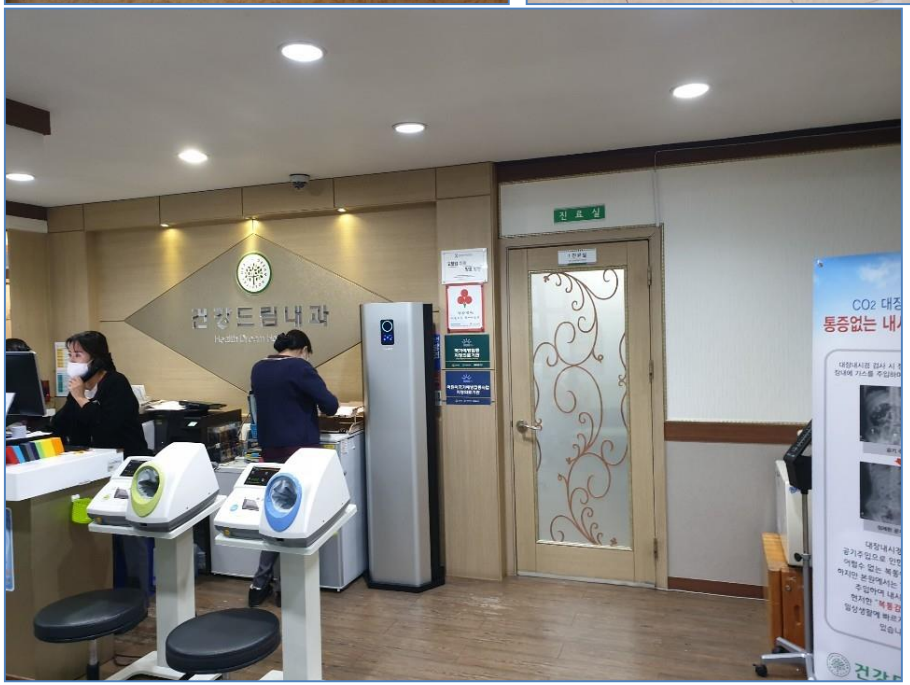
▶ BUSAN Obstetrics newborn unit – infection prevention



PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

Crona Virus infection prevention – JIN Hosptal for Internal Diseases, COUPLE Hosptal for Internal Diseases, GONG Hosptal for Internal Diseases, HEALTHY Hosptal for Internal Diseases, 365 Hosptal for Internal Diseases, HANSOUL Hosptal for Internal Diseases, WELLBEING Hosptal for Internal Diseases…….



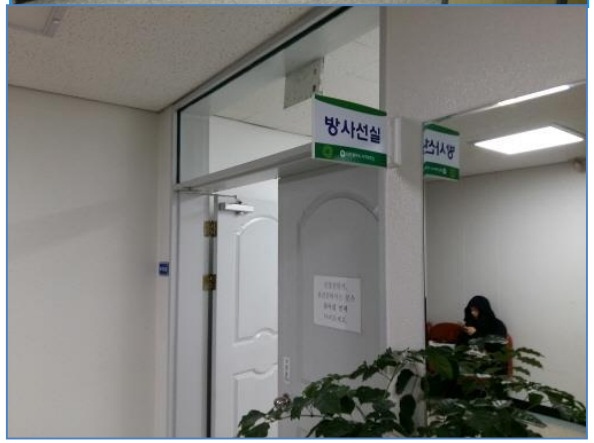


PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ **SEOUL Seodaemun-gu Health Care Center - Crona Virus infection prevention**

▶ **DAEJEON Seo-gu Health Care Center - Crona Virus infection prevention**

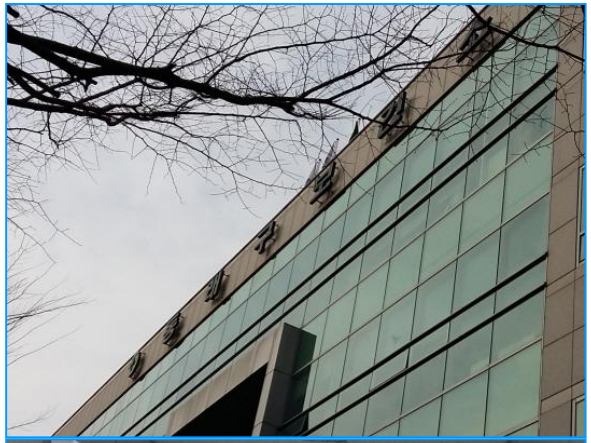
▶ Daejeon Seogu Health Care Center

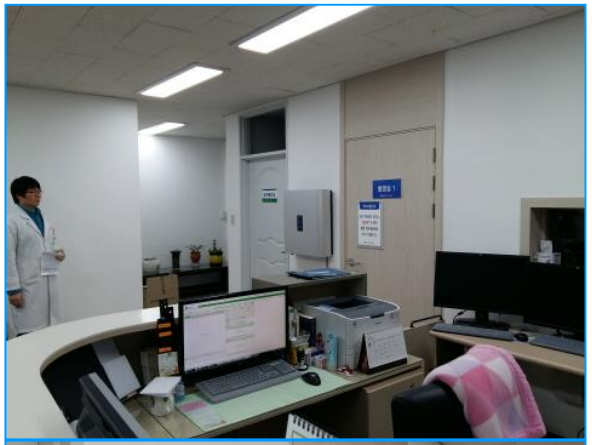


PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Busan Dongre Health Care Center

▶ Buyer Health Care Center





PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ Cheangju Seowongu Health Care Center

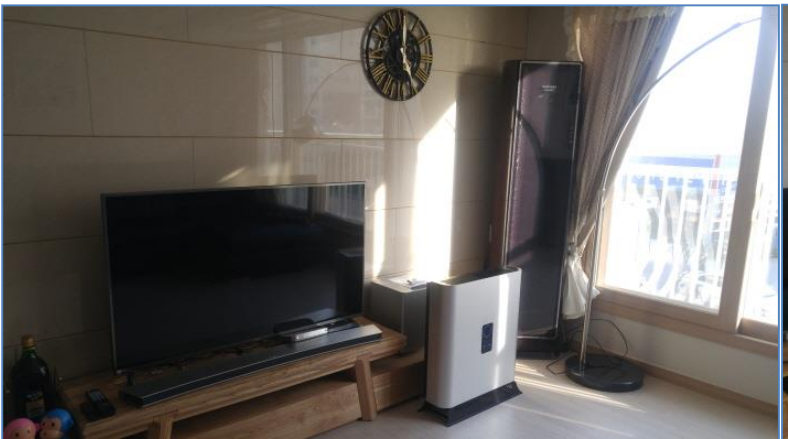
▶ Cheangju Sangdanggu Health Care Center The tuberculosis

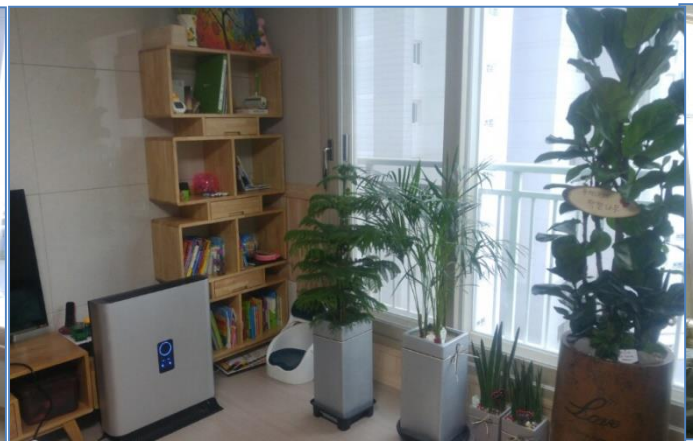
PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

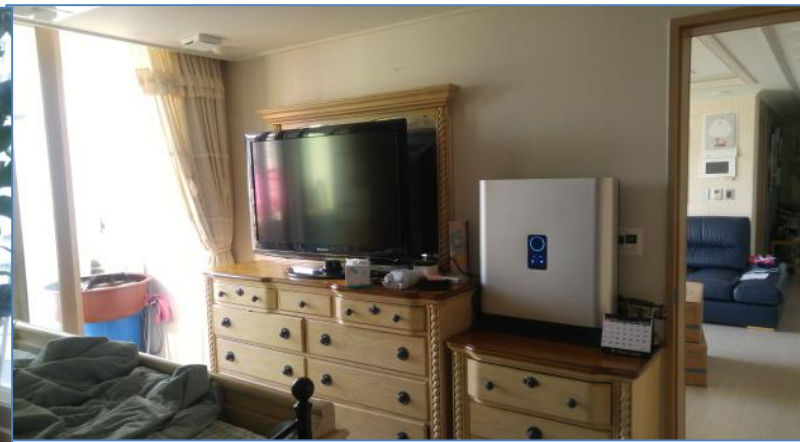
▶ Bosung Health Care Center

▶ Leukemia in children's Room

▶ Apartments



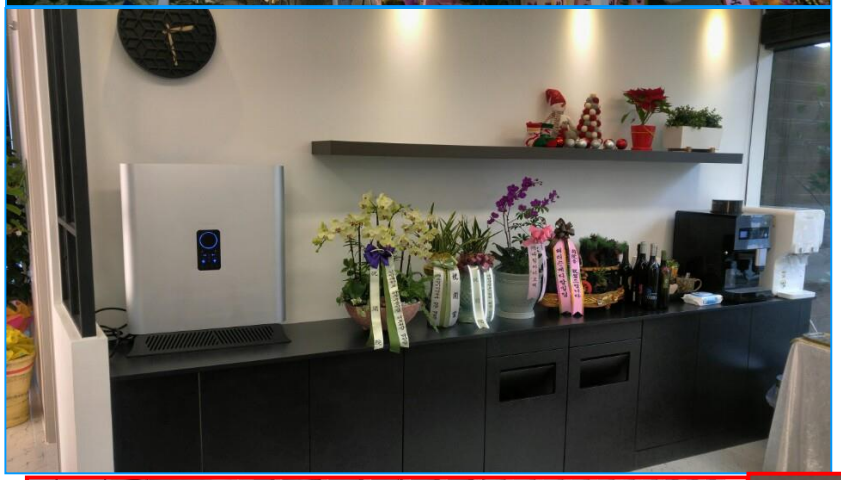




PURESYS
REVOLUTION AIR PURIFICATION
NEW COMPANY

▶ ENDO Madical Clinic ▶ LEEJIN Pediatric Hospital

▶ KOREA FISHERIES RESOURCES AGENCY



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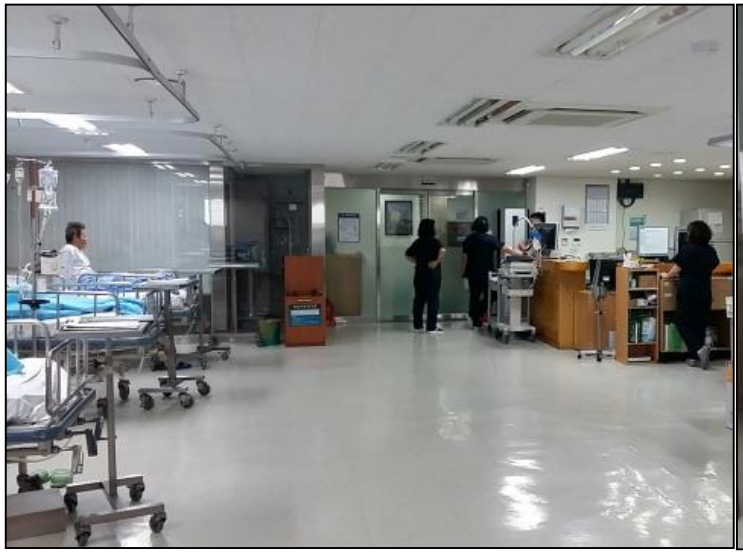
▶SAMSUNG Hospital

▶ GeoChang Fire Station

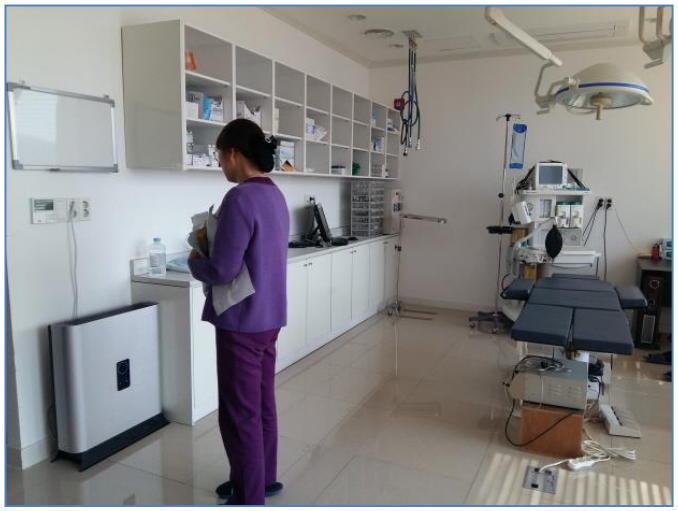
▶ PheangChang Fire Station

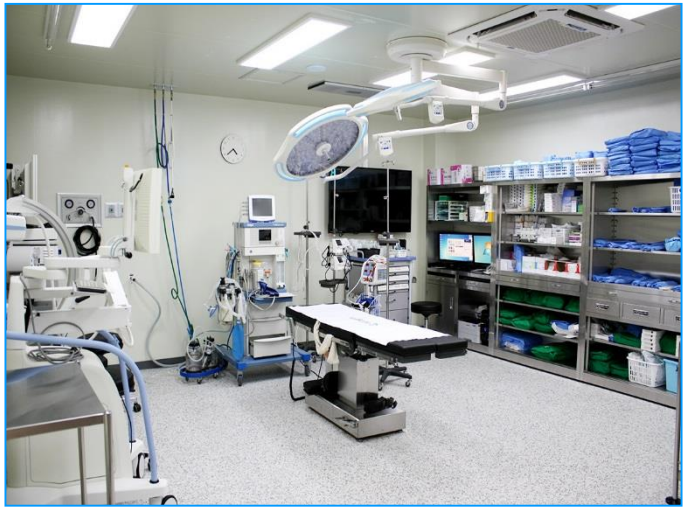
▶ Gyeonggi Provincial Medical Center Intensive Care Unit



▶ EL Dental Hospital Operating Room.

▶ SEOUL Foot & Ankle Clinic Operating Room1,2,3





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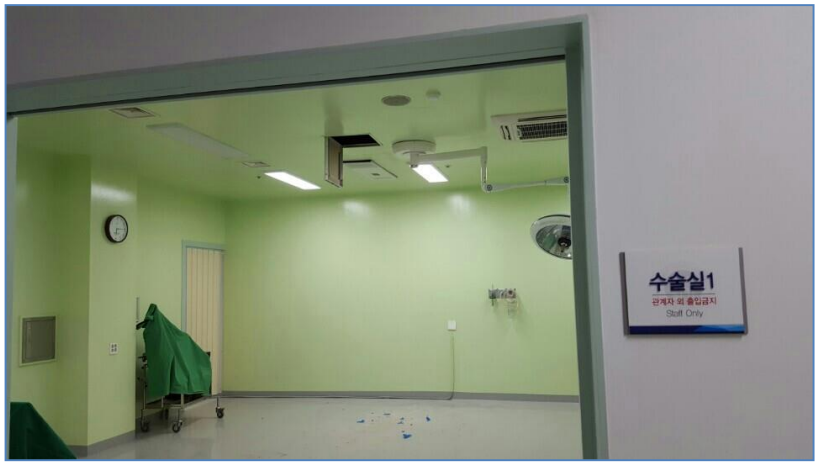
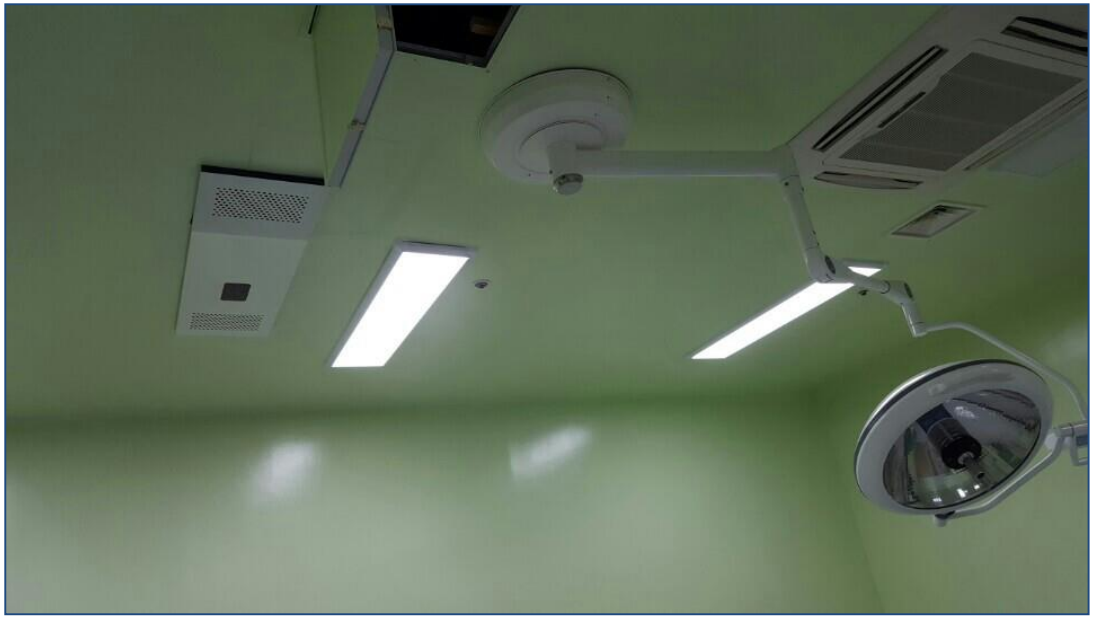
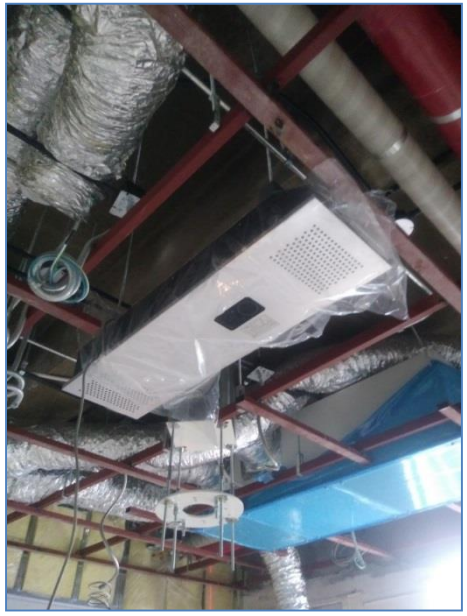
▶ HYUNDAI HOSPITAL Operating Room1,2,3



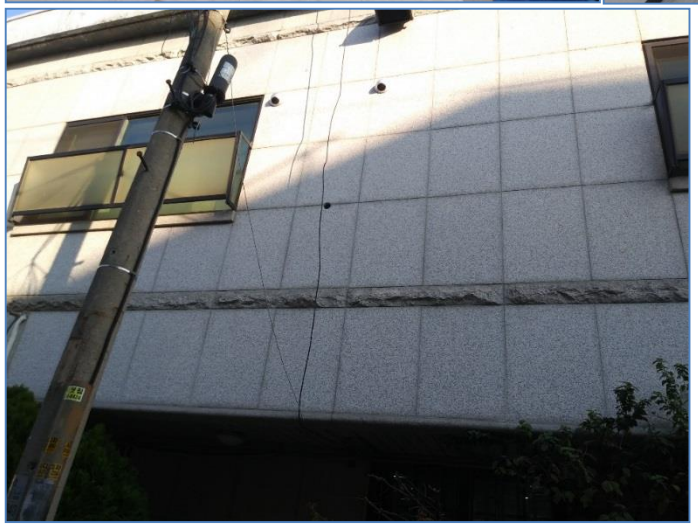


▶ RED CROSS HOSPITAL Operating Room1,2,3



▶ CHOICE HOSPITAL Operating Room

▶ WOORI HOSPITAL Operating Room1,2,3



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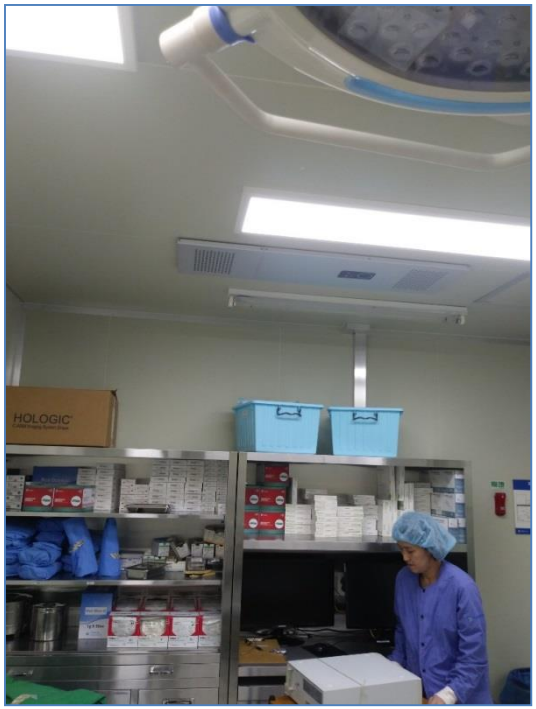
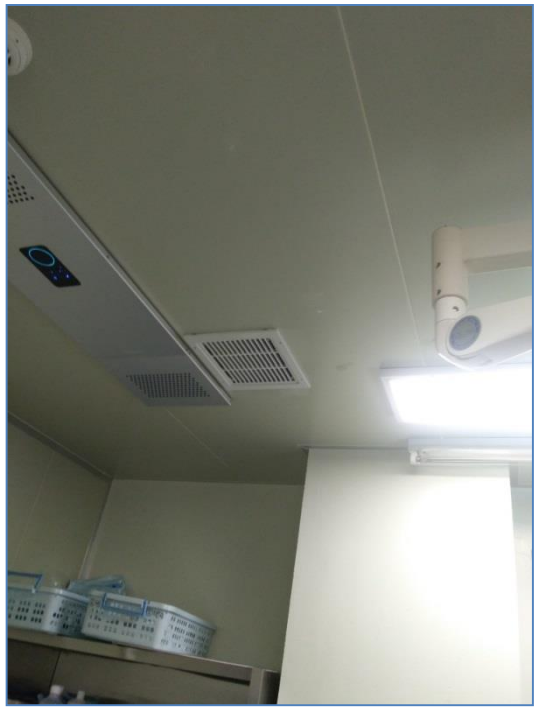
▶ HANMI HOSPITAL Operating Room

▶ FATIMA HOSPITAL Operating Room

▶ KAI plastic surgery Operating Room





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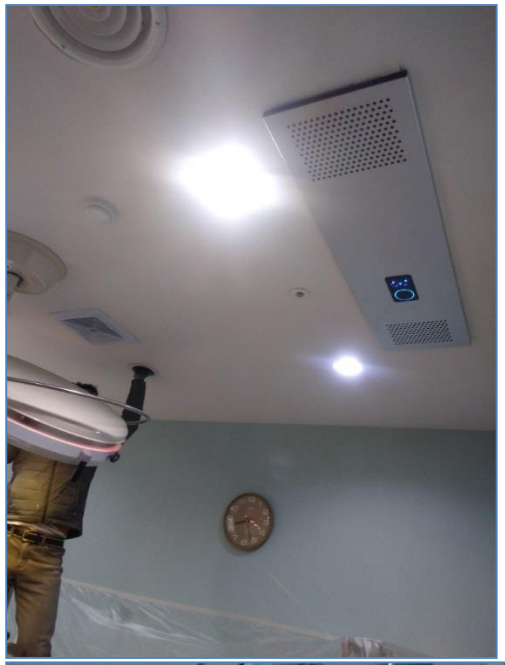
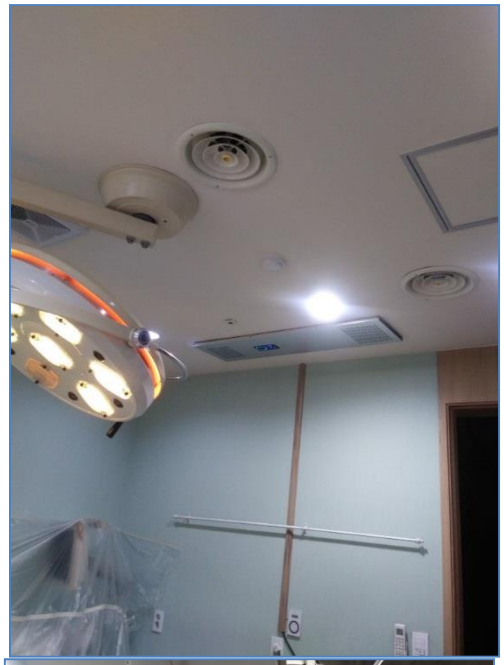
▶ WOMEN`S I HOSPITAL Operating Room

▶ BONE & BONE CLINIC Operating Room

▶ MIU CLINIC Operating Room





TANTAN HOSPITAL Operating Room1,2,3,4

Thanks !