

COMPANY PRESENTATION

April 2020 Version 26



GROUP STRUCTURE







South Korea



RADIC8 INNOVATION & PRODUCT DEVELOPMENT TEAM

KENN LEE

CEO (Korea) & Founder INBair

Kenn is the founder of INBair and has been the CEO since 2004.

Prior to this, he held a senior position with SK engineering, one of South Korea's largest companies.

STEVE KWON

Director & Strategic Advisor

Steve was CTO of LG Electronics for 30 years, taking their R&D team from 900 people to over 20,000.

During this time, he was also responsible for many ground-breaking technologies such as the VHS recorder and the Digital Audio Tape (DAT).

RICHARD GREENWOOD

CEO (UK) & Founder Radic8

Richard is highly regarded globally as a specialist in air purification and is responsible for all new innovations and product development.

Radic8 and INBair formed a partnership in 2017 and since then, have co-owned all patents together.



RADIC8 GLOBAL OPERATIONS TEAM

Louise Wallace

Global Strategy & Operations

Louise has a long track record delivering large scale business transformation programmes as a delivery partner for Accenture.

Nick Dixon

Global Business Development

Nick is a seasoned business development executive having lead sales at various large scale organisations.

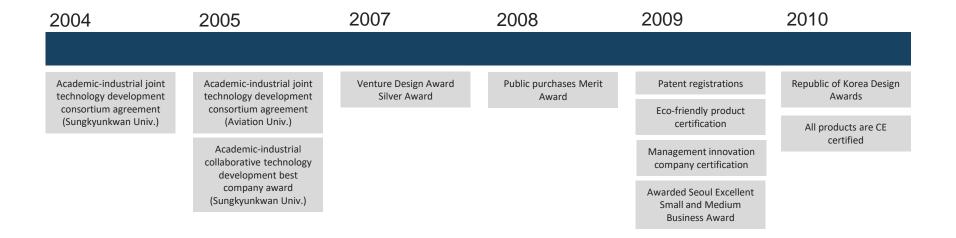
John Wallace

Global Commercial Officer

John has extensive Global experience as a deal maker having worked as a lead deal maker partner for Accenture in UK, USA, Japan and South Africa.

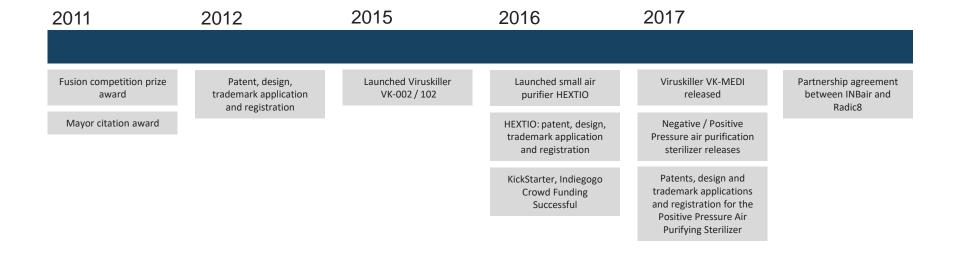


TIMELINE





TIMELINE





OVERVIEW

 The core technology was designed in 2004 to improve infection control practices and help to reduce the spread of viruses, such as the COVID-19 outbreak we have today

• Cutting-edge problem-solving technology covered by multiple patents

Highest certified range of clean air technology in the world

Versatile plug-and-play units for a range of environments

• Best virus kill rate on a single forced air exchange

Low cost of maintenance

• Mobile negative pressure systems for disease containment

Modular, mobile systems for ease of use and emergency response

Bespoke solutions & technology integration





OVERVIEW

 <u>Innovation hub</u>: patents pending for Public Transport Clean Air Solution / Ventilation Sterilisation Solution / Personal, Smart UV Steriliser

 Advisors / Consultants / Partners for studies and trials in advancing IPC and IAQ (Infection Prevention and Control / Indoor Air Quality) currently engaged with several government projects

• Bespoke design capability for large scale projects

• 360,000+ commercial installations in South Korea

• INBair (Korea) and Radic8 (UK) are currently in the process of consolidation following the signing of various partnership agreements since 2017





THE PROBLEM

AIR POLLUTION

Dirty air

- Particulate matter
- Dust
- Pollen
- Dander

HEPA and Carbon filters

Sick air

- Viruses
- Bacteria
- Mould
- Fungus

No filter can kill viruses! Our Reactor Chamber does

Toxic air

- Extremely small particles
- Gases

It needs to be neutralized in the Reactor Chamber

INDOOR AIR POLLUTION

A common misconception is that the air indoors is cleaner than outdoor air, but it is actually 2 to 10 times more polluted!

We are an indoor generation



Longer exposure to dangerous air pollutants than ever before!



Radic8 technology cleans dirty air, kills sick air and neutralises toxic air

POLLUTANTS IN THE AIR





WHY RADIC8?

INDOOR AIR QUALITY

Because we are an indoor generation, it is necessary to ensure we breathe clean fresh air in all indoor sapces.

Radic8's technology sterilises the air in a single air pass!



Reduction of the risk of infections such as illnesses, allergies or respiratory issues.

POLLUTION

Recent studies* confirm that viruses can travel farther by air because they attach to particles of air pollution

Heavily polluted areas have a higher rate of disease infections



Our technology removes pollution, allergens ...



There is nothing for any kind of airborne pathogen to attach to and travel in the indoor air!

EFFECTIVENESS

Radic8's technology is more effective than traditional products due to:

Airflow control

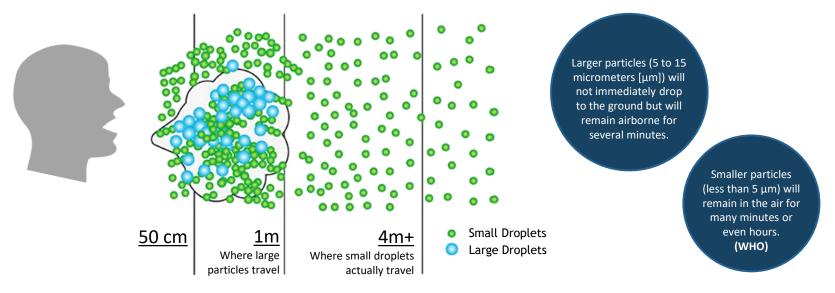


Complete kill rate in a single air pass

^{*} Setti, L. et al: "SARS-Cov-2 RNA Found on Particulate Matter of Bergamo in Northern Italy: First Preliminary Evidence". Various Research Institutes, Italy. 2020

VIRUSES SUCH AS COVID-19 IN THE AIR

A single sneeze can release 40,000 virus-containing droplets





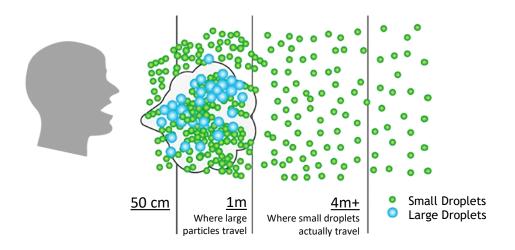
Small droplets can travel **8 meters** at speeds of up to **320 km/h** and be carried around by the air conditioning system*.

^{*} Bourouiba.L et al.: "Violent expiatory events: on coughing and sneezing". Massachusetts Institute of Technology (MIT). Journal of Fluid Mechanics. Vol 745, Cambridge University Press. 2014



VIRUSES SUCH AS COVID-19 IN THE AIR

Recent research studies*, confirm that COVID-19 can stay in the air up to THREE HOURS!



As soon as cough/sneeze droplets hit the air, they dry out and become light enough to leave suspended particles in the air and stay airborne.

Some infectious microorganisms like COVID-19 can become aerosolised and remain airborne for several hours.

RISK OF INFECTION

If particles from an infected individual remain airborne, uninfected people who come into the room are at risk of infection.

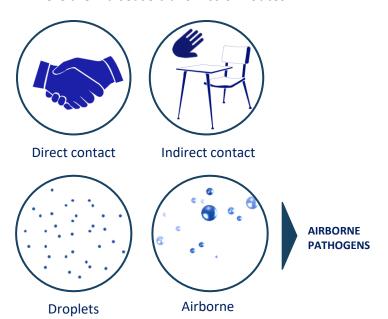
^{*} Van Doremalen, N. et al: "Aerosol and surface stability of HCoV-19 (SARS-CoV-2) compared to SARS-CoV-1". Various research institutes, USA. 2020



THE PROBLEM

INFECTION PREVENTION & CONTROL

There are 4 disease transmission routes





AIR PURIFICATION & STERILISATION DEVICES ARE NEEDED

To tackle droplet and airborne disease transmission routes (and reduce direct and indirect contact transmission routes)



HOW DOES OUR TECH WORK?

1. PURIFICATION

The air is first purified via a set of 3 mechanical filters.

- 1) Pre filter
- 2) Carbon filter
- 3) HEPA filter

The dirty particles are trapped in these filters.



2. STERILISATION



The air then passes through our patented Reactor Chamber (once only) where all particles are neutralized.

This photo-catalytic oxidation chamber has multiple UV-C lights surrounded by chromed nano titanium tube filters and polished with activated carbon.

The UV-C light reacts with the photocatalytic surface creating the most powerful oxidants (Hydroxyl Radicals), creating the ultimate virus killing environment!



HOW DOES OUR TECH WORK?

3. AIRFLOW CONTROL

Units have been designed in collaboration with the Korean Aerospace University to provide the best possible airflow in each circumstance

Contaminated air is pulled into the device (out of the breathing zone)

Clean, virus free, air is pushed out the device into the breathing zone and maximising sterilised air distribution in the room



Effective airflow control



Less surface settlement of droplets



Reduction of airborne and droplet disease transmission risk

+

Reduction of direct and indirect contact disease transmission risk



HOW DOES OUR TECH COMPARE?

VIRUSKILLER™ VS. THE REST

Why air purifiyers with only filters are not the solution?

	DUST	РМ	ALLERGENS	MOULD	VOCs	BACTERIA	VIRUSES	TOXIC GASES
HEPA FILTERS	YES	YES	YES	YES	NO	YES *	NO	NO
CARBON FILTERS	NO	NO	NO	NO	YES **	NO	NO	YES **
RADIC8 UNITS	YES	YES	YES	YES	YES	YES	YES	YES

(*) Studies show that HEPA filters can become a growing surface for pathogens in as little as SIX DAYS!

That happens because bacteria feed and multiply on the dusty surface of the filter and then they are released back into the air in bigger numbers.

(**) Efficient only for a short period of time, until reaching a stable equilibrium.

RADIC8'S SOLUTION

We solve this issue by shining UV-C radiation on the filter, killing all pathogens trapped in the filters.

The presence of UV-C lights leads to higher efficiency of the device for much longer periods of time.



FACT: HEPA filters are not designed to catch particles smaller than 0.3 microns



HOW DOES OUR TECH COMPARE?

VIRUSKILLER™ VS. THE REST

Two key factors to consider when using technology to reduce airborne and droplet virus exposure:

CONTROLLED AIRFLOW

Take the danger away from the breathing zone and replace it with clean air. Where possible, create a laminar airflow

SINGLE AIR PASS

Use technology that can give a virus kill rate. Kill rates can only be given by tests conducted on a single air exchange

WHY IS IT SO IMORTANT?

When dealing with viruses, single air pass kill rates are an absolute must. If a clean air device draws air and then pushes it back into the breathing zone without completely eradicating viruses, it significantly increases the **risk of cross contamination**.

Other equipment who claim they kill viruses are only able to eradicate them completely after air has passed through them multiple times. We believe that 99.999% virus kill rates are irrelevant if the tests are not done in a single air exchange.





TEST RESULTS SUMMARY

For many years, the Radic8's sterilisation chamber has been **vigorously tested** by many **independent facilities and institutions** and the results on airborne pathogens are the same for all of the Viruskiller™ range.

- Bacteria
- Viruses
- Fungi
- Mould
- VOC's
- Toxic Gas
- Nitrogen Dioxide
- Particulate Matter (including Ultra Fine particles)

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00 000/	Viruses	ممالنيا
99.99%	viiuses	KIIIEU

99.99% Removal of bacteria, mould & fungi

99.99% Removal of fine dust and particulate matter

99.99% Removal of odor and toxic gas

99.99% Removal of VOC's

0% Ozone creation

Test results and certificates provided in separate pack





















ACTUAL VIRUSKILLER TEST RESULTS

TEST RESULTS FOR THE INACTIVATION OF MAJOR VIRUSES

Kind	of virus	Quantity of virus	Results	
	Experiment 1	10 ⁶ PFU/ 100ml	None detection (99.9999%)	
Polio Virus	Experiment 2	10 ⁶ PFU/ 100ml	None detection (99.9999%)	
	Experiment 3	10 ⁶ PFU/ 100ml	None detection (99.9999%)	
	Experiment 1	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
Influenza Virus	Experiment 2	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
	Experiment 3	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
	Experiment 1	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
Adeno Virus	Experiment 2	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
	Experiment 3	10 ⁶ TCID ₅₀ / 100ml	None detection (99.9999%)	
	Experiment 1	10 ⁶ PFU/ 50ml	None detection (99.9999%)	
Corona Virus	Experiment 2	10 ⁶ PFU/ 50ml	None detection (99.9999%)	
	Experiment 3	10 ⁶ PFU/ 50ml	None detection (99.9999%)	

Test by Institute of Medical Science & Department of Microbiology, School of Medicine, Kangwon National University

Remarks

3 experiments
Each virus is
tested three times
to certify the
efficacy of our
technology



- 4 Way Wind Direction
- 16ea LED Display

SILENCER

 Noise Cancelling Silencer for Whisper Quiet Operation

REACTOR CELL

- 16 Super UVC Lamps
- Mirrored Coating for Ultimate Reflection
- 135 TiO2 nano Tube filters for generating
- OH Radical (world's strongest oxidant)
- Loose Activated Carbon Inside Tube Filters Absorbs Odours and Pollutants Allowing PCO to Decompose

VENTILATION

- Double Inlet Sirocco Fan
- S. pressure 78mmAq 16m³/min

COMPLEX FILTERS

- HEPA filter 75mm nano silver coated
- Carbon Filter 20 mm
- Pre filter 5mm





TECHNOLOGY TEST CERTIFICATION

VIRUSKILLER CERTIFICATES

TYPE	NAME	YEAR	ВУ
Bacteria	 Removal of Klebsiella pneumoniae Removal of Mycobacterium tuberculosis Removal of Staphyloccus aureus Removal of Streptoccocus pneumoniae Removal of Streptococcus pyogenes Removal of Escherichia coli Removal of Strep pneumoniae Removal of Strep pyogenes 	2004	Sungkyunkwan University
	Removal of various bacteria, fungi and mould	2011	Korea Testing Laboratory Sogang University Hanyang University
Virus	 Removal of Adeno Virus Removal of Corona Virus Removal of Influenza Virus Removal of Polio Virus 	2004	Kangwon National University
	Inactivation of major airborne viruses	2013	Korea Institute of Ceramic Engineering and Tech
VOCs	Removal ability of Volatile Organic Compounds (VOC's) and Particulate Matter	2011	Korea Testing Laboratory Sogang University Hanyang University
Dust	Dust and Fine dust removal - Viruskiller	2017	Korea Conformity Laboratories Korea Testing Laboratory

TYPE	NAME	YEAR	ВҮ
Hazardous Gas	Removal of Toluene, Nitrogen Dioxide, Amonia, Formaldehyde – Hextio& VK	2017	Korea Conformity Laboratories
Gas	Hazardous gas removal (Toluene, Nitrogen Dioxide, Amonia, Formaldehyde) – Hextio & VK	2011	Korea Testing Laboratory Sogang University Hanyang University
Airflow	Airflow rate	2006	Korea Aerospace University
rate	Airflow rate - Viruskiller	2017	Korea Conformity Laboratories
Ozone	Ozone emission	2013	Korea Institute of Ceramic Engineering and Tech (KICET)
emission	Ozone emission - Viruskiller	2017	Korea Conformity Laboratories
Area	Standard usage area - Viruskiller	2017	Varoa Canfarmitu I abayatarias
Noise	Noise- Viruskiller	2017	Korea Conformity Laboratories



BUSINESS CERTIFICATION

PATENTS

NAME	YEAR	NAME	YEAR
UVC Laser steriliser of ducting system	2018		2012
UVC LED steriliser			2014
Hextio Application 2004 Reactor Chamber - no.10-0460254		Reactor chamber design patent - no. 30-0501771 Reactor chamber design patent - no. 30-0501772 Reactor chamber design patent - no. 30-0512332	2008
Reactor Chamber - no.10-0460255 Reactor Chamber - no.10-0880852 Reactor Chamber - no.10-0891128	2009	Reactor chamber design patent - no. 30-0512332 Reactor chamber design patent - no. 30-0521638 Reactor chamber design patent - no. 30-0547617	2009
Reactor Chamber - no.10-0948030 Reactor Chamber - no.10-0953433 Reactor Chamber - no.10-0976169 Reactor Chamber - no.10-0983223 Reactor Chamber - no.10-0992507	2010	Reactor chamber design patent - no. 3158916 Reactor chamber design patent - no. 3158413 Reactor chamber design patent - no. 3159059 Reactor chamber design patent - no. 30-0739828	2014
Reactor Chamber - no.10-1021616		Reactor chamber design patent - no. 30-0897726	2016
Reactor Chamber - no.10-1034868 Reactor Chamber - no.10-1062801	2011	Positive Pressure air steriliser	2018

CERTIFICATES OF PERFORMANCE

TYPE	NAME	YEAR
	CE Certificate (EMC Directive) Hextio	2017
CE	CE Certificate (EMC Directive) VK 102 CE Certificate (EMC Directive) VK Medi CE Certificate (EMC Directive) VK 103 CE Certificate (EMC Directive) VK 401	2020
FCC	FCC Certificate Hextio	2017
ISO	ISO 9001:2015	2014
	ISO 14001:2009 / 14001:2004	2017





INTELLECTUAL PROPERTY

Multiple trademarks and web-domains associated with company brand names and initiatives, including Viruskiller, Hextio, We Share Clean Air and Cancercair















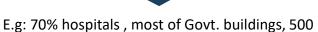


SOUTH KOREA IS COPING WELL WITH COVID19

Country	March 16 th	April 26 th
CHINA	3,213	4,632
USA	71	54,941
ITALY	1,809	26,644
SPAIN	335	23,190
FRANCE	127	22,856
UK	36	20,732
IRAN	998	5,710
GERMANY	23	5,884
S. KOREA	81	242
SWITZERLAND	27	1,610

SOUTH KOREA

RADIC8 virus killers widely installed in all types of public indoor spaces



INDOOR SPACE IS KEPT STERILISED

schools, 80% universities...

LOWER RISK OF DISEASE TRANSMISSION





OUR CORE PRODUCT RANGE











VK 401

Powerful unit for medium

areas up to 60m²





Hextio

Powerful unit for small

areas up to 20m²

Powerful unit for larg
areas up to 165m ²

VK Medi

Dimensions **Dimensions** 1500 x 420 x 556 mm 1570 x 380 x 380 mm Weight Weight 63 kg 46 kg

With its powerful fan and possibility for creating positive pressure, the VK Medi is the ultimate unit in clean air technology.

VK 102

Powerful unit for large

areas up to 165m²

With its powerful reactor chamber, the VK 102 is the best unit for complete negative pressure.

VK 103 Powerful unit for large areas up to 105m²

Dimensions 1570 x 320 x 320 mm Weight 42 kg

The VK 103 is perfectly suited to large waiting Areas and open plan spaces. It can also create positive pressure.

Dimensions 1220 x 380 x 380 mm Weight 38 kg

VK 002

Powerful unit for large

areas up to 100m²

Choice of black or white

VK 002 is Ideal for waiting rooms, wards or reception areas.

Dimensions

Weight 9.2 kg

365 x 165 x 581 mm

Choice of black or white

The VK 401, with its large air exchange capacity, is ideal for dental surgeries and waiting rooms.

Powerful unit for large areas up to 100m²

IAQ Inline

IAQ Inline is a

complement for existing

ventilation systems. It

can be installed wall-

hung or ceiling mounted.

Dimensions Dimensions 315 x 300 x 450 mm 126 x 330 x 106 mm

Weight Weight 12 kg 1.2 kg

Choice of black or white

Ideal for personal use at home or in a small office. Hextio is portable and can be placed anywhere.



VIRUSKILLER VK MEDI

Powerful unit for large areas up to 165m² *

Low running costs
Simple installation and maintenance
Free standing

Specs

x 8 double length UVC lamps

 \simeq 70 extra-large chromed TiO₂ hexagon filters

Noise 41-50 dB

Airflow 300-635 CFM

Max Electricity 360 W

Double filtration: 2 filtration trays (back and floor)

Dimensions: 1500 x 420 x 556 mm

Weight: 63 kg

<u>Coverage</u>: Hospital wards, operating theatres, Intensive Care Units, critical care rooms, quarantine/containment rooms and other medical installations, classrooms, communal areas, offices, hotel lobbies, waiting rooms, restaurants, commercial spaces, elderly homes, childcare spaces, mass congregation spaces, laboratories, veterinaries, Government buildings, leisure facilities, factories...

VK Medi is ideal for complete positive pressure sterilisation





VIRUSKILLER VK MEDI

Positive pressure

Usage: Critical Care rooms or Operation Theatre rooms

Positive pressure is required when the priority is to keep external contaminants out of the air in the subject room.

Included Reducer attachments

Not included
Ducting pipe,
Inline fan

Optional unique patented method of controlling **CO** and **CO**₂ levels

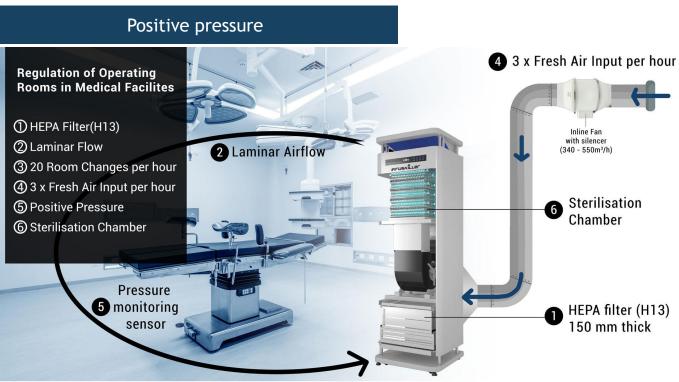
Optional additional temperature control unit to heat or cool incoming air

An integrated pressure gauge controls the air valve automatically ensuring positive pressure is maintained





VIRUSKILLER VK MEDI



20 Room Changes per Hour



Powerful unit for large areas up to 165m² *

Low running costs
Simple installation and maintenance
Free standing

Specs

x 16 UVC lamps

Max Electricity 350 W

 \simeq 140 chromed TiO $_2$ hexagon filters Noise 40-49 dB Airflow 220-388 CFM

Dimensions: 1570 x 380 x 380 mm

Weight: 46 kg

<u>Coverage</u>: Hospital wards, Intensive Care Units, critical care rooms, quarantine/containment rooms and other medical installations, dentists, classrooms, communal areas, offices, hotel lobbies, waiting rooms, restaurants, commercial spaces, elderly homes, childcare spaces, mass congregation spaces, laboratories, veterinaries, Government buildings, leisure facilities, factories...

VK102 is ideal for complete negative pressure sterilisation

The VK102 is perfect in spaces where there is a lot of air flow and people traffic as the unit's ability to exchange air is very high





Negative pressure

Usage: Quarantine / Containment rooms

Negative pressure is required when the priority is to ensure contaminants from one room or area do not escape into another.

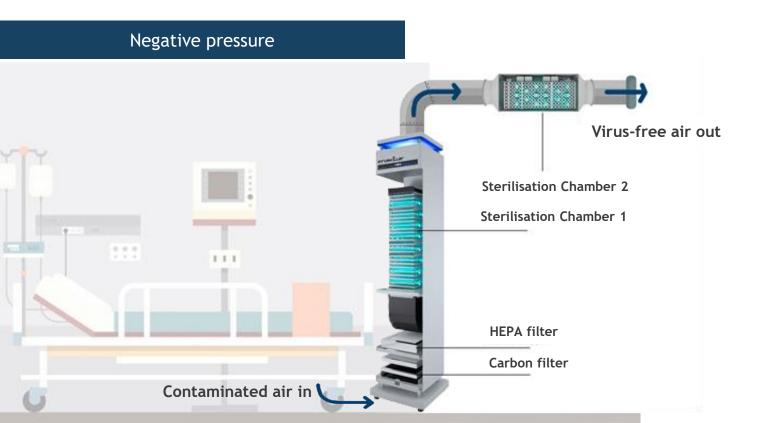
The problem with many existing systems is that the contaminated air is taken from one space and dumped in another without killing viruses.

Included Reducer attachments

Not included
Ducting pipe,
Inline fan









Powerful unit for large areas up to 100m² *

Low running costs
Simple installation and maintenance
Free standing

Specs

x 8 UVC lamps

 \simeq 70 chromed TiO₂ hexagon filters

Noise 40-49 dB

Airflow 200-358 CFM Max Electricity 210 W

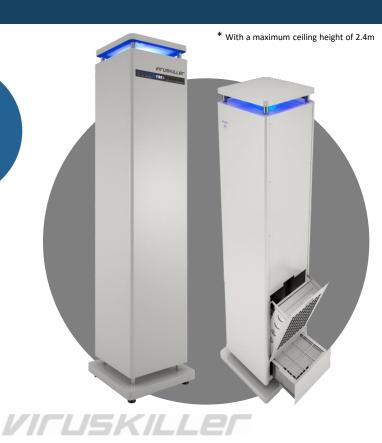
Double filtration: 2 filtration trays (back and floor)

Dimensions: 1570 x 320 x 320 mm

Weight: 42 kg

<u>Coverage</u>: Large rooms; classrooms, communal areas, wards, offices, hotel lobbies, waiting rooms, restaurants, commercial spaces, elderly homes, childcare spaces, mass congregation spaces, medical installations, laboratories, veterinaries, Government buildings, leisure facilities...

VK103 can also duct in and filter external air which creates positive air pressure in the room.





Powerful unit for large areas up to 100m² *

Low running costs
Simple installation and maintenance
Free standing

Specs

x 8 UVC lamps

 \simeq 70 chromed TiO $_2$ hexagon filters Noise 40-49 dB Airflow 150-317 CFM Max Electricity 280 W

Dimensions: 1220 x 380 x 380 mm

Weight: 38 kg

<u>Coverage</u>: Large rooms; classrooms, communal areas, wards, offices, hotel lobbies, waiting rooms, restaurants, commercial spaces, elderly homes, childcare spaces, mass congregation spaces, medical installations, laboratories, veterinaries, Government buildings, leisure facilities...





Powerful unit for medium areas up to 60m² *

Low running costs Simple installation and maintenance Wall-hung or Free standing

Compact, powerful and stylish

Specs

x 8 UVC lamps

 \simeq 40 chromed TiO₂ hexagon filters

Noise 38-44 dB Airflow 70-141 CFM Max Electricity 96 W

Dimensions: 365 x 165 x 581 mm

Weight: 9.2 kg

Coverage: Medium rooms; classrooms, public areas, wards, offices, hotel lobbies and rooms, waiting rooms, restaurants, commercial spaces, elderly homes, childcare spaces, mass congregation spaces, medical installations, laboratories, Government buildings, leisure facilities, public toilets...

Choice of white with blue LED or black with amber LED







Airflow control

The positioning of VK 401 is very important

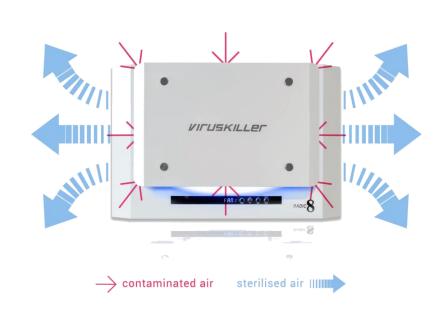
Ideally, the VK 401 should be placed above the seated head-height



Contaminated air is pulled into the device (out of the breathing zone)



Clean air is pushed out from both sides of the device, maximising sterilised air distribution in the room







How the VK401 controls the airflow in the room



HEXTIO

Powerful unit for small areas up to 20m² *

Low running costs
Simple installation and maintenance
Compact, powerful and portable

Wall-hung or free standing

Specs

 \times 1 UVC lamp \times 10 chromed $\mathrm{TiO_2}$ hexagon filters Noise 40-49 dB Max Electricity 15 W

Dimensions: 126 x 330 x 106 mm

Weight: 1.2 kg

<u>Coverage</u>: Small rooms, bedrooms, hotel rooms, living rooms, dining rooms, kitchens, workspace, small offices, desktop, on-the-go, public transport, private vehicles, elderly homes, childcare spaces, play areas...







HEXTIO

IT KILLS RESPIRATORY VIRUSES AND

It helps control allergies and asthma so that your immune system develops a stronger response to viruses & contamination.

INCLUDES OPTIONAL DIRECTIONAL AIRFLOW HOOD

Surround yourself with a clean air cloud, regardless of where you are or how big the room you are in is. Direct the air towards you and displace polluted air.



PORTABLE

Travel bag and 12 V battery available.

CONVENIENT AUTOMATIC FEATURES

Automatic features detect air pollution and switch to full fan without any user input.

Lights then indicate to the user when the air is clean.

Also it includes a super quiet night mode that enables you to leave it on while you sleep with no extra disturbances.



IAQ INLINE

Powerful unit for large areas up to 100m² *

Low running costs

Complement for existing ventilation systems

Wall-hung or ceiling mounted

Specs

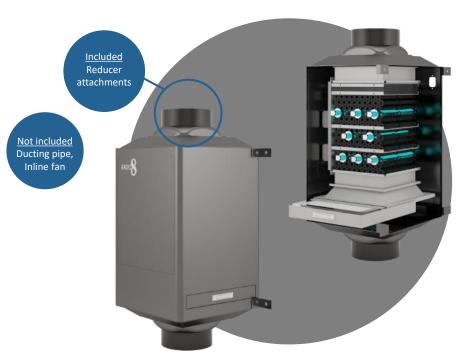
x 8 UVC lamps \simeq 40 TiO₂ hexagon filters Noise 30 dB Max Electricity 48 W

<u>Dimensions</u>: 315 x 300 x 450 mm Reducer connector diameter: 150mm

Weight: 12 kg

<u>Coverage</u>: Large rooms; classrooms, communal areas, wards, offices, hotel lobbies, waiting rooms, restaurants, commercial spaces, childcare spaces, elderly homes, medical installations, laboratories, veterinaries, Government buildings, leisure facilities...

* With a maximum ceiling height of 2.4m





SPECS & LIFESPAN OF OUR TECH

VK MEDI

Reactor Cell 8000h

Lower tray

Washable pre-filter (5mm)

HEPA filter (150mm)

Activated Carbon filter (20mm)

8000h

Back tray

Washable pre-filter (5mm)

HEPA filter (25mm)

8000h

Activated Carbon filter (20mm)

8000h

VK 102/002

Reactor Cell 8000h

Lower tray

Washable pre-filter (5mm)

HEPA filter (35mm)

6000h

2 Activated Carbon filters (20mm)

6000h

Back tray (n/a)

VK 103

Reactor Cell 8000h

Lower tray

Washable pre-filter (5mm)

HEPA filter (35mm) 6000h

2 Activated Carbon filters (20mm) 6000h

Back tray

Washable pre-filter (5mm)

HEPA filter (35mm)

6000h

2 Activated Carbon filters (20mm)

6000h

VK 401

Reactor Cell 8000h

Front tray

Washable pre-filter (5mm)

HEPA filter (20mm)

2000h

2 Activated Carbon filters (15mm)

6000h

Back tray (n/a)

HEXTIO

Reactor Cell 8000h

Upper tray

Washable pre-filter (n/a)

HEPA filter

Activated Carbon filter

4000h

Back trav (n/a)

IAQ INLINE

Reactor Cell 8000h

Washable pre-filter (5mm)

HEPA filter (25mm)

6000h

Activated Carbon filter (20mm)

6000h

Back tray (n/a)

Hours	Months
2000	3
4000	6
6000	8
8000	11



OXYGEN PURIFIER



INBAIR 02

Portable, lightweight and stylish oxygen purifier

Headset included AC power adaptor / Car power adaptor included It can be battery-powered

Specs

Aluminium body Seolite filter bed and micro filter Very low noise – 37 dB Very low power consumption – 28W

Oxygen volume: 2L per minute Oxygen concentration: 40%

30 minutes automatic off switch

Dimensions: 280 x 175 x 60mm

Weight: 2.54 kg

<u>Important</u>: The INBair O2 is not a medical oxygen concentrator and should not be purchased by anyone needing oxygen for medical conditions.





INBAIR 02

ACCESSORIES





HEAD SETHead set included



PORTABLEDesigner bag available



ANYWHERE YOU DRIVE DC Car Adaptor included



RECHARGEABLE12V Power Bank available



INBAIR 02

BENEFITS

- Increased energy levels
- Boosts immunity
- Alertness
- Reduced stress levels
- Increased brain power
- Increased recovery rate for fitness
- Combat asthma & allergies
- Optimum O₂ levels during pregnancy
- Fight fatigue
- Healthy sleeping patterns
- Oxygenated blood for healthy body
- Reduces snoring





INNOVATIONS



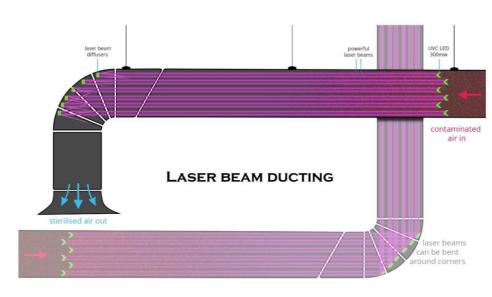
INNOVATION – UVC LASER DUCT

PROBLEM

- Diseases are often spread through ventilation systems.
- Prior to this Radic8-INBair Innovation, there was no easily retrofittable & effective virus killing solution for ventilation systems.

SOLUTION

- Using the latest high powered UVC LED technology, Radic8-INBair UVC lasers beam down the ducting, in the same flow as the air.
- UVC lasers do not lose their UV Radiation intensity and they are easy to retrofit with very little disturbance to airflow.



Status: Patent Pending | Development planning stage.



INNOVATION – PUBLIC TRANSPORT

PROBLEM

- Trains, buses and metro are long narrow spaces. They are the ideal spot for airborne virus transmission.
- Pre-existing air sterilising technology could not purify the air by getting airflow from one end to the other (and back) with a single, retro-fit device.

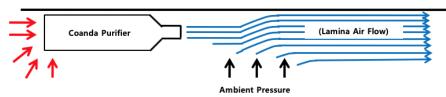
SOLUTION

- <u>Coanda Effect</u>: It occurs when a high-speed jet pulls in contaminated air and projects purified air accross the indoor space and, due to differences in pressure, the airflow attaches itself to the upper surface.
- There is only surface friction on one side. Therefore, the air keeps its speed and can travel further.

In a long train carriage this allows for better delivery of clean air along the length of the carriage.



Train Air Purifier



Status: Patent Pending | Tender application in process.

Integral to this innovation is the Viruskiller technology.



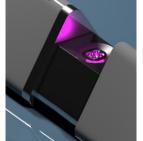
INNOVATION – SMART PORTABLE STERILISER

PROBLEM

- Cross contamination from day-to-day surface touch points.
- No pre-existing pocket-sized, effective solutions available.

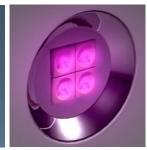
SOLUTION

- Utilising the latest advances in UV LED technology, Radic8-INBair have invented a smart, personal steriliser.
- Fitted with a distance sensor that calculates the required amount of UV Radiation needed for sterilisation.
- A timer is placed at the back of the unit, guiding the user to hold the sterilisation device on top of the object or surface for the required amount of time to effectively sterilise it.









Status: Patent Pending | Prototype planning and development.



CASE STUDY - HOSPITALS



VIRUSKILLER IN HOSPITALS

PROBLEM

- Healthcare acquired infections are a big concern.
- Most people visiting healthcare facilities are concerned about cross contamination, specially in waiting rooms (hands, surfaces, air...)

SOLUTION

- Viruskiller eradicates viruses and airborne pathogens
- Perfect for:
 - Waiting rooms
 - Nurses rooms
 - Examination rooms
 - Operating Theatres
 - Bathrooms

Keeps patients and staff safe and healthy Reduction of healthcare acquired infections





2019

AWARDS AND ACHIEVEMENTS



Top 100 most innovative companies - 2018



Top 5 in innovation category - 2018





Voted top innovation for infection prevention - 2018



Finalist in global clean air competition - 2016 & 2017





MEDIA APPEARANCES















The Telegraph



PROJECT PARTNERSHIPS



DEVELOPING EXCITING NEW RANGE OF PRODUCTS



AIR QUALITY TESTING AND TECHNOLOGY IMPLEMENTATION IN UK SCHOOLS



SETTING UP AN AIR QUALITY CENTRE OF EXCELLENCE



WHERE OUR TECH IS CURRENTLY INSTALLED

- Elder Care facilities
- Nurseries
- Dental Surgeries
- GP Surgeries & Hospitals
- Schools and Universities
- Cheches
- Offices
- Factories
- Government buildings
- Homes
- Museums & Libraries
- Stores & Shopping Malls



































CASE STUDY – UK Nurseries and Schools in Partnership with the Mayor of London

Radic8 installed technology in nurseries and schools in Central London as part of the Mayor of London's initiative to tackle the effects of inner-city air pollution on children.

The results of the experiment showed dramatically reduced nitrogen dioxide levels and a reduction in the spread of respiratory viruses.















CASE STUDY – Working alongside Oman Cancer Association





Radic8 installed technology in a home for children with cancer to help protect them from the spread of respiratory infections which would otherwise reduce the effectiveness of their treatment and put their lives at risk.



RECENT INSTALLATION OF RADIC8 TECH IN SOUTH KOREA



RECENT INSTALLATIONS - 2020

South Korea Coronavirus Pan-national Countermeasures Committee Meeting



Covid19 Special Measures Support Group, Gyeongsan, South Korea

Designated as a special Government administrative area for **infectious diseases**

National Masan Hospital



Best infection prevention hospital in South Korea

Affiliated with Korea's **Ministry of Health and Welfare**

KAIST University





VK Medis installed in all public areas as extra measures for coronavirus

(!) KAIST IS one of the **top technical universities** in the world



RECENT INSTALLATIONS - 2020

South Korean Ministry of Health and Wellbeing, National Mental Health Centre







Our Viruskiller units are already installed on over 80% of hospitals in South Korea and they are being widely adopted as part of best practice in the fight against COVID-19.

(The Viruskiller technology innovation was initially funded by the South Korean government after SARS Coronavirus in 2003.)



SOME OF OUR INSTALLATION SITES IN SOUTH KOREA



LEISURE FACILITIES

Kangwon Land Casino















LEISURE FACILITIES

Suwon Spa & Sauna

KSPO Cycle Race













NO	Medical Center & Hospital Name	NO	Medical Center & Hospital Name
1	Hospital of Korea University (Guro)	2	Seoul KangnamSungmo Hospital
3	Hospital of Korea University (Ansan)	4	Hospital of Korea University (Seoul)
5	Severance Hospital of Yonsei University	6	KangdongSungSim Medical center
7	KangnamSungSim Medical center	8	PyungcheonSungSim Medical center
9	HanKangSungSim Medical center	10	Samsung Kangbuk Hospital
11	Samsung Seoul Hospital	12	Samsung Changwon Hospital
13	Hospital of Seoul National University	14	Hospital of Busan University
15	Busan Back Hospital of Injae University	16	Seoul Asan Hospital
17	Seoul Back Hospital of Injae University	18	Hansen Nasaro Hospital
19	Kangnam Cha Hospital	20	Budang Cha Hospital
21	The armed Force Combined Hospital	22	Masan National Medical Center
23	Seoul Seobu city Hospital	24	Hongsung Medical Center
25	Hospital of Inha University	26	Uijeonbu Medical Center
27	Hospital of Konkuk University	28	Wonju Medical Center
29	Hospital of Kyunghee University	30	Hospital of Ulsan University
31	Hospital of Ewha Woman University	32	Incheon Woman Hospital
33	Hospital of Wonju University	34	Siwha Hospital
35	Hospital of Cheonbuk University	36	Kwangmeung Hospital
37	Hospital of Cheonnam University	38	Hospital of JaejuHanra University
39	Hospital of Jeju University	40	Hospital of Jeonnam University
41	Incheon Gil Hospital of Gacheon University	42	Hospital of Kangwon University
43	Seoul Adventist Hospital	44	Hospital of Azoo University
45	Ilsan Hospital of Dongkuk University	46	Hospital of Hanyang University
47	Bogum Hospital of Goshin University	48	Hospital of Chungnam University
49	Daegu Fatima Hospital	50	Korea Medical Institute
51	Ulsan Hyundae Motors Hospital	52	Korea Cancer Center Hospital
53	Kimhae Hospital of Injae University	54	National central Medical Center
55	Mockpo Christian Hospital	56	Hospital of Donga University
57	Kwangju Christian Hospital	58	ChonguSungsim Hospital
59	Hana Cheungju Hospital	60	Changwon Fatima Hospital
61	Daigu Medical Center	62	Korea Food and Drugs Administration



ICU(Intensive Care Unit) & Operation Room







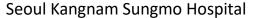








Korea University Hospital











VirusKillers are installed at Children Cancer Ward



Inha University Hospital















The Armed Forces Medical Centres









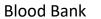








Dongtan Jeil Hospital













HEALTH CENTRES

NO	Health center of Gov.	NO	Health center of Gov.	
1	Seoul Songpa-gu Health Center	2	Kyungbuk Uiseong Health Center	
3	Yesan-gun Health Center	4	Kyungbuk Andong-Cuty Health Center	
5	Seoul Sungdong-gu Health Center	6	Kyungbuk Koryungun Health Center	
7	Guni Health Center	8	Buan-City Health Center	
9	Masan Health Center	10	Seoul Seobu Health Center	
11	Yangju Health Center	12	Kwangju Kwangsan Health Center	
13	Cheonnam Hampyung Health Center	14	Jinju Health Center	
15	Yongjin-gun Health Center	16	Geochang Health Center	
17	Seoul Yangcheon-gu Health Center	18	Tongyoung Health Center	
19	Donghai City Health Center	20	Busan Dong-gu Bealth Center	
21	Busan Buk-gu Health Center	22	Gunpo-City Health Center	
23	Kyungbuk Gunwi Health Center	24	Hongsung Health Center	
25	Seoul Sucho-gu Health Cemter	26	Seoul Kangbuk-gu Health Center	
27	Kyungbuk yongcheon-gun Health Center	28	Jungang Health Center	
29	Bundang-gu Health Center	30	Busan Jun-gu Health Center	
31	Anyang-City Manan-gu Health Center	32	Daigu Nam-gu Health Center	
33	Sungnam Sucheong-gu Heath Center	34	Nonsan Health Center	
35	Youngcheon Health Center	36	Seoul Seodaimun-gu Health Center	
37	Seoul Kwangsan-gu Health Center	38	Seoul Mapo-gu Health Center	
39	Seoul Gangsu-gu Health Center	40	Seoul Jung-gu Health Center	
41	Busan Nam-gu Health Center	42	Jeju-City Health Center	
43	Chilgog-gun Health Center	44	Seoul Geumcheon-gu Health Center	
45	Wonju-City Health Center	46	Damyang-gun Health Center	
47	Daigu Dalsu-gu Health Center	48	Donghai-City Health Center	
49	Kangrung-City Health Center	50	Sangju Health Center	
51	Yeosu Health Center	52	Gunsan Health Center	
53	Whacheon Health Center	54	Seoul Sungdong-gu Health Center	
55	Kwangsan Health Center	56	Kimpo-City Health Center	
57	Danyang Health Center	58	Chuncheong-City health Center	
59	Seoul Goro-gu Health Center	60	Busan Dongnam-gu Health Center	
61	Klmcheon-City Health Center	62	Sungju-City Health Center	



HEALTH CENTRES

Chilgok-Gun Health Care Centre

Goseong-Gun Health Care Centre









UNIVERSITIES

NO	University Name	МО	University Name	NO	University Name
1	KAIST	2	Seoul National University	3	Korea University
4	Yonsei University	5	Kwangun University	6	Ewa Woman University
7	Busan National University	8	Changnam National Univ.	9	Changbuk National Univ.
10	Cheonnam National Univ.	11	CheonBuk National Univ.	12	Kangwon National Univ.
13	Jeju National University	14	Kyunghee University	15	Dongkuk University
16	Donga University	17	GAIST	18	Korea Art Univerdity
19	Chungcheong University	20	Singu University	21	Dong-Eui University
22	Hanrim University	23	Handong University	24	Yandong University
25	Dongju University	26	Hanseo University	27	Jungbu University
28	Hanse University	29	Kyunsang University	30	Kukmin University
31	Mokpo University	32	Yongnam National Univ.	33	Myongji Unversity
34	Sangmyong University	35	Duksung Woman Univ.	36	Dongduk Woman Univ.
37	Suwon Woman Univ.	38	Cheonju Education Univ.	39	Seoul Education Univ.
40	Busan Education Univ.	41	Daegu Education Univ.	42	Kyungin Education Univ.
43	Keimyug University	44	Changwon University	45	Hanrim Sungsim Univ.
46	University of Seoul	47	Jeju International Univ.	48	Jeju Hanrim University
49	Dongseo University	50	Sahmyook University	51	Sahmyook Health Unive.
52	Dongnam Health Univ.	53	Hoseo University	54	Baeksuk University
55	Kyungsung University	56	Moonkyung University	57	Sinsung University
58	Sinheung University	59	DaiJeon Heath Univ.	60	Uhan University
61	Jangan University	62	Daiwon University	63	Kyongmin University
64	Jeku Hanra University	65	Yongin University	66	Kunyang University
67	Kyungwon University	68	Dongyang Future Univ.	69	Suncheong Jail Univ.
70	Fareast University	71	Donga Broadcasting Art	72	Mockpo Science Univ.
73	Korea Teacher Univ.	74	Sungkyul University	75	Nazarene University
76	Immersion University	77	Jesus University	78	Presbytery University
79	Korea Seminarian Univ.	80	Catholic University	81	Incheon Catholic Univ.
82	Busan Marine Univ.	83	Inha University	84	Inha Technology Institute
85	Ulsan University	86	Suncheonhaeng Univ.	87	Sungeui University
88	Dongkuk Univ. (Kyungju)	89	Kunkuk Univ.(Cheungju)	90	Cheungam University
91	Kyungin Education Univ, (Seoul)	92	Incheon Education Univ.	93	Korea National Open Univ.



UNIVERSITIES



KAIST - Korea Advanced Inst. of Science & Technology











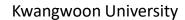




UNIVERSITIES



Gachon Medical University















SCHOOLS

Gyeseong Elementary School, Seoul

Jumong School, Seoul









Most famous Elementary School in S.Korea

Biggest School for the physically handicapped in Korea



SENIOR CITIZEN'S CENTERS

Senior Centre of Busan Nam-gu

Seongnam City Senior Centre











DEPARTMENT STORES

Sinsegae Department –Kangnam













CHAIN STORES



Sinsun Korean Restaurants













CHAIN STORES

Game Room Chain Sores













NO	Museum (박물관)	NO	Museum (박물관)
1	독립기념관 (Independent Memorial Hall)	2	대통령기록관 (Presidential Museum)
3	자연사박물관 (The Museum of Natural History)	4	한국영상자료원 영화박물관 (Cinema Museum)
5	국립극장 공연예술박물관 (The Performing Arts Museum)	6	대전시립박물관 (Daejeon Municipal Museum)
7	대전 한밭교육박물관 (Daejeon Hanbat Education Museum)	8	국립문화재 박물관 (National Culture Museum)
9	이응노미술관 (Ungno Lee Museum)	10	전쟁박물관 (War Museum)
11	수도박물관 (Waterworks Museum)	12	한국족보박물관 (Family Tree Museum)
13	병무청 전시관 (Military Museum)	14	윤봉길의사 기념관 (Yoon Bong Gil Museum)
15	홍주성역사관 (Hongjuseong Fortress)	16	강원대학교 박물관 (Kangwon University Museum)
17	실학박물관 (Realist Museum)	18	한국방송대학교 사료관 (Korea Open Uni. History Museum)
19	아리수나라박물관 (Anisu Nara Museum)	20	무주군 최북미술관 (The Northernmost Art Museum)
21	신안군 철새전시관 (migratory bird Museum)	22	허준박물관 (Hujun Museum)
23	영인산 산림박물관 (Forest Museum)	24	제주 탐라박물관 (Jeju Tamra Museum)
25	대구교육박물관 (Daegu Education Museum)	26	다수의 중국 박물관 납품 (Lots of Chinese Museum)





Korea Independence Memorial Hall











Second biggest museum in S.Korea







Museum of Performing Art - National Theatre

Museum of Korea Natural History











Daejeon Municipal Museum DMA



Ungno Lee Museum



Korea War Museum









National Culture Museum



Yun Bong Gil Memorial Hall



Realist Museum



LIBRARIES

NO	Library	NO	Library
1	Ilsan Aranuri Library	2	Daijeong bburi Park Library
3	Kyunggi Whole Life Cuture Library	4	Daigu Su-gu Culture Library
5	Guri Municipal Library	6	Daigu Susung Library
7	Sungnam Culture Library	8	Wolgae Culture Library
9	Korea Video Library	10	Masan Municipal Library
11	Mogpo Public Library	12	Chongyang Library
13	Ministry of Health and Welfare Library	14	Keusan Library
15	Yeoncheon Jungang Library	16	Uireung Library
17	Kwangyang Public Library	18	Dobong Library
19	Naju Public Library	20	Cheonbuk Education Library
21	Gurei Pubic Library	22	Jeju Tamra Library
23	Uijungbu Public Library	24	Daigu Ansim Library
25	Ministry of Patent Library	26	Cultural Heritage Administration Library
27	National Defense Library	28	Kyunggi Provincial Library
29	Air Training Command Library	30	Korea Coast Guard Library
31	Koyang Culture Library	32	Nowon Information Library
33	Goacheon Provincial Library	34	KImhai Jinyoung Library
35	Jeju Hanra Library	36	Changwon Education Library
37	Agriculture Library	38	Ministry of Labor Library
39	Provincial Sungnam Library	40	Korean Food and Drugs Adm. Library
41	Baman Library	42	Constitutional Court Library
43	Bundang Library	44	Yongcheung Municipal Library
45	Bundang Jungang Library	46	Yongkwang Library
47	Sungnam Provincial Library	48	Andong City Hall Library
49	Sungnam Jungwon Library	50	Arisurana Library
51	Jeungpyung Library	52	Masan Habpo Library
53	Yanggu Library	54	Hampyung Public Library
55	Daigu Juang Library	56	Hainam Public Library
57	Sungsan Public Library	58	Seoul Gangnam Library
59	Seoul Dongjak-gu Library	60	Korea Tour Library
61	Wonju Municipal Library	62	Gumi City Library



LIBRARIES

Budang Library

Uijeongbu Children Library











ARTS CENTRES



Sejong Centre













Second biggest Arts Centre in S.Korea



GOVERNMENT BUILDINGS

NO	Government Building	NO	Government Building
1	National Assembly of Korea	2	Ministry of Health and Welfare of Korea
3	Constitutional Court of Korea	4	Presidential Archives of Korea
5	Korean Food and Drugs Administration	6	the Korean Intellectual Property Office
7	Ministry of Labor	8	Ministry for Food, Agriculture, Forestry and Fisheries
9	the Minister of National Defense	10	Cultural Heritage Administration
11	Korea Tourism Organization	12	Korea Institute of Industrial Technology Evaluation
13	Korean Film Archive	14	Seoul Regional Communications Office
15	Seoul City Hall	16	Busan City Hall
17	Incheon City Hall	18	Daijeon City Hall
19	Mockpo City Hall	20	Kyunggi Provincial Gov. Building
21	Jeongbuk Provincial Gov. Building	22	Kangwon Provincial Gov. Building
23	Jeongnam Provincial Gov. Building	24	Kyungbuk Provincial Gov. Building
25	Kyungnam Provincial Gov. Building	26	Jeju Provincial Gov. Building
27	Geumcheon-gu Office	28	Yangcheon-gu Office
29	Kangnam-gu Office	30	Seocho-gu Office
31	Sungdong-gu Office	32	Seodaimun-gu Office
33	Guro-gu Office	34	Mapo-gu Office
35	Jung-gu Office	36	Cheonan City Hall
37	Gumi City Hall	38	Ulsan City Hall
39	Milyang City Hall	40	Sungnam City Hall
41	Bundang-gu Office	42	fire station of Incheon
43	fire station of Sungdong	44	fire station of Seobu
45	Seoul Education Office	46	Busan Education Office
47	Incheon Education Office	48	Kyunggi Education Office
49	Chungnam Education Office	50	ChungBuk Education Office
51	Jeonnam Education Office	52	Chungbuk Education Office
53	Gunpo City Hall	54	Kyungju City Hall
55	KOTRA	56	the National Maritime Police Agency
57	Incheon Police Station	58	Jongro Police Station
59	Sungdong-gu Resident Center	60	Yangcheon-gu Resident Center
61	Mock-dong Resident Center	62	Bundang-gu Resident Center



GOVERNMENT BUILDINGS

National Assembly of Korea



Presidential Archives



Cheonbuk Provincial Govt. Building



Geumcheon-gu Office



Constitutional Court





Korea Development Institute | KD|







GOVERNMENT BUILDINGS

National Health Service











RADIC S-INBair

