www.wellisair.com

Indoor Air Quality Solution for You

# Wellis Air Disinfection Purifier

## WADU-02

High Tech, High Efficiency Air Disinfection Purifier!

# More powerful and smart

Enjoy clean and fresh air with Wellis.
Wellis will take care of cleanig your air.

(W)220mm x (D)150mm x (H)370mm

## Simple Control and Compact Design

**Simple** Control **Compact** Design

### Automatic operation

Automatically purifies airborne and surface contaminants

### Night Mode

Minimal noise, quiet functioning
Low brightness for comfortable sleep.

### Cartridge Alarm

Lets you know in advance time to replace cartridge

### Alert

Notifies in case of empty cartridge or when improper inserting causes a stop in function

Economical and easy-to-use Wellis Air Disinfection Purifier!

# High level of **energy efficiency!** Easy **maintenance!**

## Are you interested in 24/7 operation without worrying about electricity cost?

Wellis can clean air for 24 hours using 3.6 Watts per hour, which is 300 KRW/month, and 3600 KRW/year in about 50㎡ area of space. ※1 USD = 1098 KRW ( August, 2016 )

## No more expensive filters or UV lamp replacement!

**Anyone can easily and conveniently replace the cartridge with one touch.**
You can enjoy top performance if you replace the cartridge every 3 months.

(The operating life of consumable fluid cartridge varies depending on environment, including indoor temperature, humidity, etc.)

Wellis is excellent for a contaminated environment!

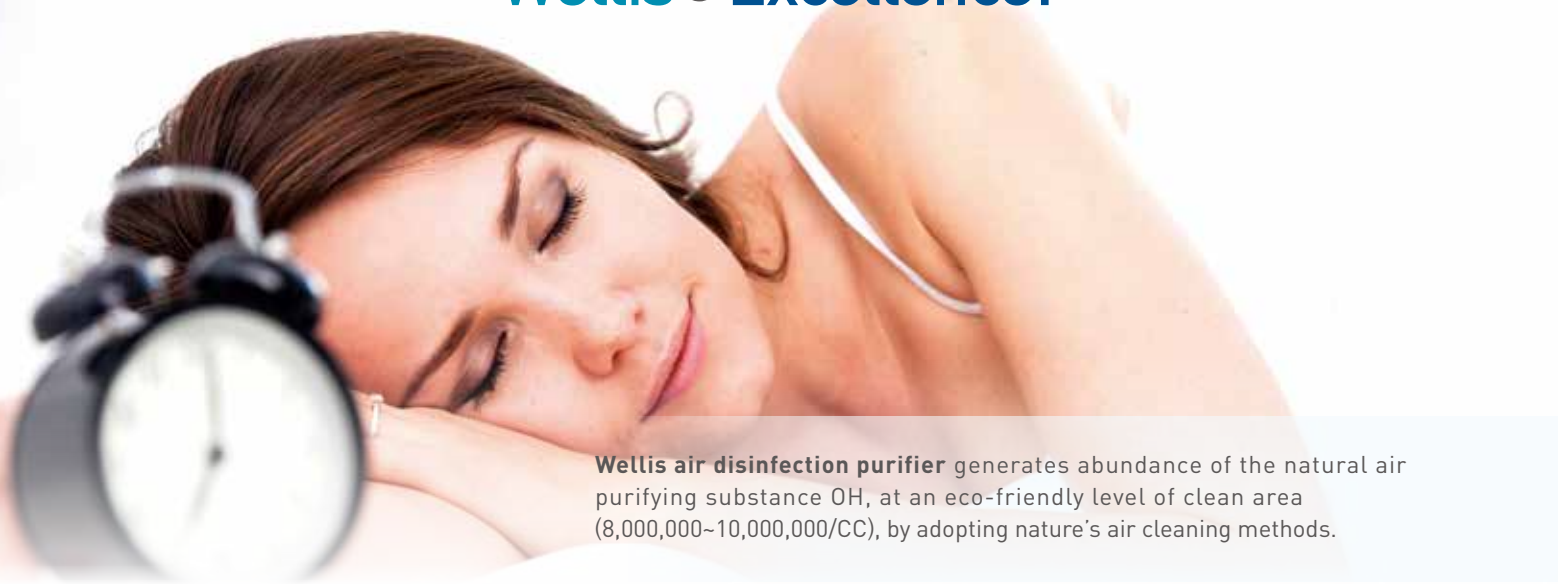
# **Superior Technology** by Wellis!

## Using Military Defense Technology

Using OH in the atmosphere, Military Defense developed this technology in the 1970s for CBR (Chemical/Biological Radiological) warfare. It was commercialized in the 1990s in European hospitals and shows excellent results in the removal of harmful substances such as bacteria, germs and viruses, harmful gases, mold, and respiratory allergens that cause a contaminated environment.

**Removes 99.9% of all hazardous elements** including viruses, bacteria, and mold!
Eco-friendly purifying using nature's **air purifying** principles!

# Wellis's Excellence!

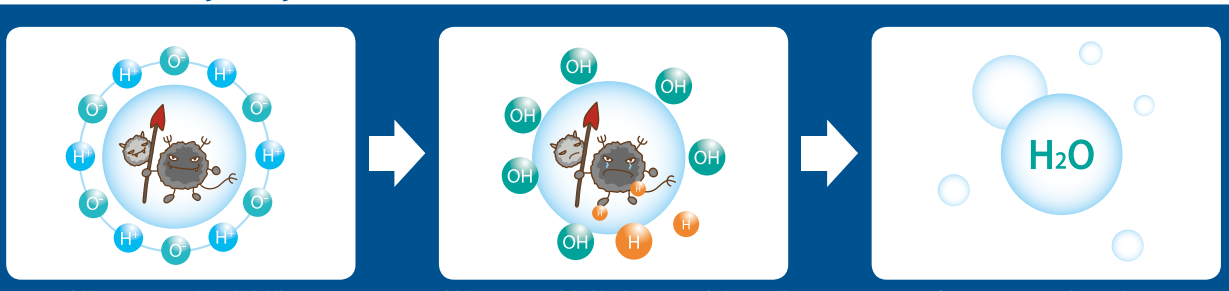


**Wellis air disinfection purifier** generates abundance of the natural air purifying substance OH, at an eco-friendly level of clean area (8,000,000~10,000,000/CC), by adopting nature's air cleaning methods.

## What is OH (Hydroxyl Radical)?

**OH (Hydroxyl Radical)** is a powerful purifying substance that is generated naturally by sun light, ozone, and moisture in the air, and it harmlessly disappears along with other air pollutants.

## How does OH (Hydroxyl Radical) work




OH generated by Wellis surrounds the virus and harmful bacteria

OH reacts with Hydrogen of the cell walls
Harmful bacteria and viruses are destroyed

Converts to a harmless element such as $H_2O$ (water)

# Wellis's Excellent Disinfection!

| Microbial decontamination | Deodorization control | Removal VOCs (Volatile Organic Compounds) |
|---|---|---|
| Pathogens (bacteria, viruses), House dust, mites, droppings, Allergens (pet dander, pollen), mold (fungi, spores) | Cigarette odor, food, sewage smell, pet odors | Formaldehyde, toluene, benzene |
| Protects against pathogenic diseases (asthma rhinitis, atopic dermatitis) | Removes unpleasant odors and maintains a comfortable indoor environment | Effects to prevent sick building syndrome, atopic dermatitis, blood modification, and blood cancer |

## No more worries! Recommend for:

Those who worry about **harmful gases** in the kitchen

Those who suffer from **cigarette, food odors**

Those with **atopic dermatitis, asthma, or allergies**

Those who spend long hours in **hospitals, offices or schools**

Those who suffer from **sick building syndrome**

**Students** who need health care

**Babies and elderly** with weak immune systems

Those who want to use an air purifier **24/7 without worrying** about high electricity cost

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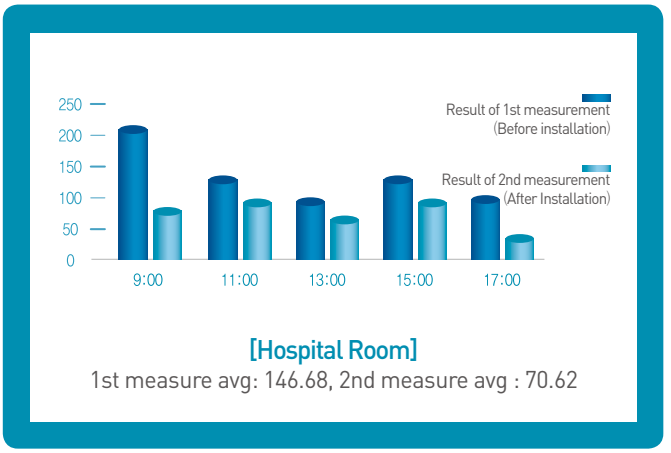
# The more test ,the more safety guaranteed in product

## Test results at International Naeun Hospital




[Hospital Room]
1st measure avg: 146.68, 2nd measure avg : 70.62

## Hospital Installation Case

Doctor's office

Waiting room

**Test Result**

**50% + of pathogenic bacteria reduction** overall
* Detected pathogenic bacteria
– Staphylococcus aureus, Escherichia coli, purulent streptococcus, Streptococcus pneumoniae

## KCL (Korea Conformity Laboratories) TEST RESULTS

| Items | Result | | | Environment |
|---|---|---|---|---|
| | Initial density | 4 hours later (CFU/mL) | Bacteria reduction (%) | |
| Antibacterial test for E. coli | $1.7x10^4$ | <10 | 99.9 | (37.0±0.1)℃ (33.1±0.2)% R.H. |
| Antibacterial test for Pseudomonas aeruginosa | $1.9x10^4$ | <10 | 99.9 | |
| Antibacterial test for Staphylococcus aureus | $1.4x10^4$ | <10 | 99.9 | |
| Antibacterial test for Salmonella | $1.6x10^4$ | <10 | 99.9 | (37.0±0.1)℃ (33.1±0.2)% R.H. |
| Antibacterial test for Pneumonia | $2.0x10^4$ | <10 | 99.9 | |
| Antibacterial test for MRSA bacteria | $1.2x10^4$ | <10 | 99.9 | |

**Result** It shows a **99.9% reduction** in bacteria pathogens during an antibacterial test run to verify the existence of bacterial contaminants on surfaces such as clothing and furniture.

| Items | Result | | | Environment |
|---|---|---|---|---|
| | Initial density | 4 hours later (CFU/mL) | Bacteria reduction (%) | |
| Reduction test for Airborne microbes (K pneumoniae) | $1.2x10^4$ | <10 | 99.9 | (23.0±0.1)℃ (50.2±1.0)% R.H. |
| Reduction test for Airborne microbes | $1.0x10^4$ | <10 | 99.9 | (23.0±0.1)℃ (50.2±1.0)% R.H. |

**Result** It shows a **99.9% reduction** in bacteria and a reduction in floating microorganisms during a test run to verify the existence of suspended microorganism inactivating contaminants in indoor air.

| Items | Result |
|---|---|
| Deodorization efficiency (ammonia NH, 4h) | 80 |
| Deodorization efficiency (Toluene C6H5CH3, 4h) | 99.5 + |
| Deodorization efficiency (formaldehyde, HCHO, 4h) | 65 |

**Result** For Toluene, it shows a deodorizing efficiency of more than 99.5%.
*Toluene : substances included in petrochemicals such as paint and glue. It causes sick building syndrome

Wellis

Wellis thinks of health of your family.

Indoor Air
**Quality Solution**

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