

# VALKIDA

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Lighting with a Perk.

Get your Air-Clight for spatial disinfection

**VALKIDA**

# VALKIDA

An LED lighting that reduces airborne bacteria

**VALKIDA AIRCLIGHT**

2022 PRODUCT CATALOG



## Total airborne bacteria

The total airborne bacteria mean the general bacteria and pathogenic bacteria floating in the area. They exist in our indoor environments throughout the year. Total airborne bacteria that survive by sticking to a particle of dust or vapor is a biological contaminant that reproduces itself. Therefore, they can multiply in number significantly to reach a high density if the indoor air quality is not kept under control.



## The cause of allergic diseases

Total airborne bacteria are one of the most representative biological contaminants that exist in indoor environments and may cause fever, coughing, or inflammation.

Also, if they come in contact with the respiratory organs, mucosa, skin, etc., they can cause hypersensitivity, atopic dermatitis, infectious diseases, allergic diseases, or respiratory diseases.



## PLASMA WIND SYSTEM

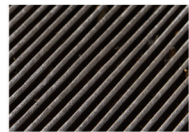
### Balkida Air-Clight to reduce the total airborne bacteria

By generating plasma wind, the device can send the wind to the outside without a fan, reducing the airborne bacteria that are invisible to our eyes but can inflict harm to our health.

## SEMI-PERMANENT

### Balkida Air-Clight that you can trust and last almost indefinitely

No noise from the product due to the fan-less design. Almost indefinite service life due to the use of a filter-less design Balkida Air-Clight, an environmentally-friendly product that you can trust.



#### Filterless System

Due to the absence of filters, the Air-Clight prevents the multiplication of the secondary viruses because of dust from happening.



#### Fanless System

The Air-Clight prevents noises or malfunctions due to fans thanks to its fan-less design.



## ANTIBACTERIAL

### Brightness + color temperature + spatial anti-bacterial effect

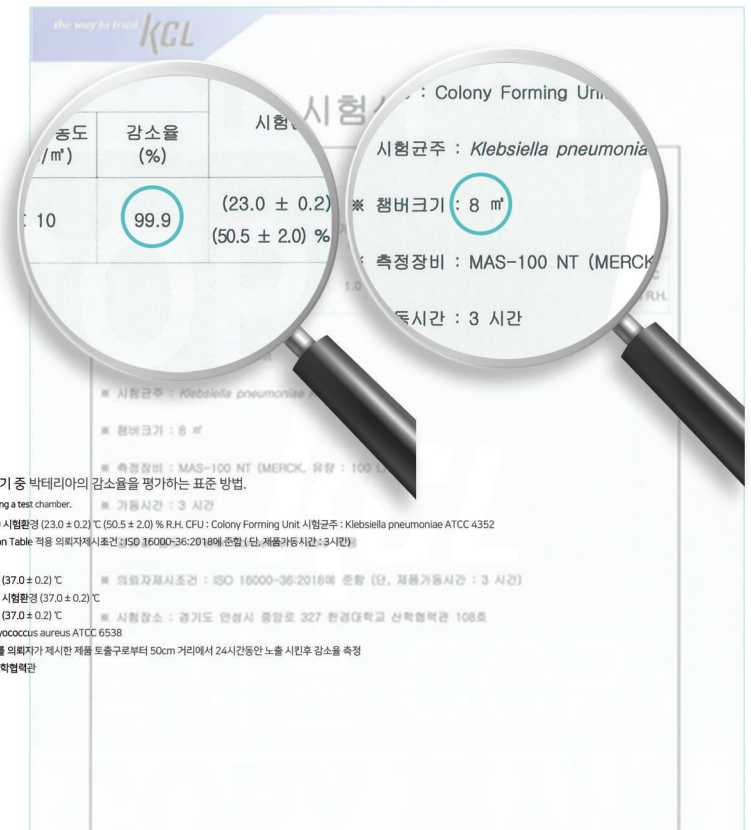
If the existing lighting was limited to brightness and color temperature, Balkida Air-Clight is capable of spatial disinfection, as well.



### Kills 99.9% of pneumococcus in the space of 8m³.

**KCL** 한국건설생활환경시험연구원  
Korea Conformity Laboratories

**ISO 16000-36:2018** 테스트 챔버를 사용하는 공기 청정기에 의한 배양 가능한 공기 중 박테리아의 감소율을 평가하는 표준 방법.  
Indoor air — Part 36: Standard method for assessing the reduction rate of culturable airborne bacteria by air purifiers using a test chamber.  
부유미생물 저감 시험(배양군) Airlight모를 가동 전 농도 (CFU/m³) 1.0 x 10⁴ 가동 후 농도(CFU/m³) < 10 감소율 99.9 시험환경 (23.0 ± 0.2) °C (50.5 ± 2.0) % R.H. CFU: Colony Forming Unit 시험균주: Klebsiella pneumoniae ATCC 4352  
챔버크기: 8m³ 측정장비: MAS-100 NT (MERCK, 유량: 100 L/min) 가동시간: 3시간 결과값: Feller Conversion Table 적용 의뢰자: ISO 16000-36:2018에 준함 (단, 제품가동 시간: 3시간)  
시험장소: 경기도 안성시 중앙로 327 한경대학교 산학협력관  
항균시험: 대장균 Airlight모를 가동 전 농도 (CFU/m³) 1.1 x 10⁴ 24시간 후 농도(CFU/m³) < 10 감소율 99.9 시험환경 (37.0 ± 0.2) °C  
항균시험: 황색포도상구균 Airlight모를 가동 전 농도 (CFU/m³) 1.1 x 10⁴ 24시간 후 농도(CFU/m³) < 10 감소율 99.9 시험환경 (37.0 ± 0.2) °C  
항균시험: 폐렴균 Airlight모를 가동 전 농도 (CFU/m³) 1.1 x 10⁴ 24시간 후 농도(CFU/m³) < 10 감소율 99.9 시험환경 (37.0 ± 0.2) °C  
CFU: Colony Forming Unit 시험균주: Klebsiella pneumoniae ATCC 4352 Escherichia coli ATCC 25922 Staphylococcus aureus ATCC 6538  
제시방법: 의뢰자가 제공한 이크릴 박스 (50cm x 50cm x 50cm) 내부에 시험균주가 접종된 배지와 재봉을 넣고 배지를 의뢰자가 제시한 제품 토폴로부터 50cm 거리에서 24시간동안 노출시킨후 감소율 측정  
접종원 준비 접종방법 및 결과 판독: KCL-FIR-1002:2018 준함. 시험장소: 경기도 안성시 중앙로 327 한경대학교 산학협력관



## The total airborne bacteria control criteria.

The Act on the Control of Indoor Air Quality in Publicly Used Establishments, etc., sets a limit of 800 CFU/m<sup>3</sup> for medical institutions, child-care facilities, public long-term care homes and geriatric clinics, and post-delivery care centers, as well as other sensitive establishment groups. (Fungi limit 500 CFU /m<sup>3</sup>)

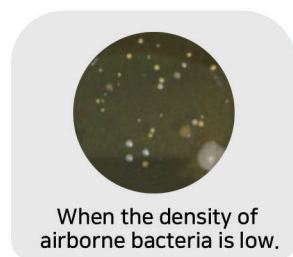
Article 3 of Act on the Control of Indoor Air Quality (Scope of Application) - Publicly used establishments (26 in total, including subway stations, large retail places, child-care centers, etc.)

Contaminants	Fine dust (PM-10) (µg/m <sup>3</sup> )	Fine dust (PM-2.5) (µg/m <sup>3</sup> )	Carbon dioxide (ppm)	Formaldehyde (µg/m <sup>3</sup> )	Total airborne bacteria (CFU/m <sup>3</sup> )	Carbon monoxide (ppm)
Publicly used establishments						
Subway stations, underground arcades, lobbies of railway stations, lobbies or bus terminals, lobbies or ports, passenger lobbies or airports, libraries, museums, art galleries, large retail facilities, funeral homes, movie theaters, cram schools, exhibition centers, business facilities for Internet computer gaming facility businesses, business facilities of public bath businesses	Less than 100	Less than 50	Less than 1,000	Less than 100	-	Less than 10
Medical institutions, post-delivery care centers, long-term care homes, child daycare centers, children's indoor playgrounds	Less than 75	Less than 35		Less than 80	Less than 800	
Indoor parking lots	Less than 200	-		Less than 100	-	Less than 25
Indoor sports facilities, indoor performance halls, offices or buildings of multiple purposes	Less than 200	-	-	-	-	-

Contaminants	Nitric dioxide (ppm)	Radon (Bq/m <sup>3</sup> )	Total VOC (µg/m <sup>3</sup> )	Fungi (CFU/m <sup>3</sup> )
Publicly used establishments				
Subway stations, underground arcades, lobbies of railway stations, lobbies or bus terminals, lobbies or ports, passenger lobbies or airports, libraries, museums, art galleries, large retail facilities, funeral homes, movie theaters, cram schools, exhibition centers, business facilities for Internet computer gaming facility businesses, business facilities of public bath businesses	Less than 0.1	Less than 148	Less than 500	-
Medical institutions, post-delivery care centers, long-term care homes, child daycare centers, children's indoor playgrounds	Less than 0.05		Less than 400	Less than 500
Indoor parking lots	Less than 0.30		Less than 1,000	-

## A colony of airborne bacteria

CFU: Colony-forming unit. A unit for counting the number of colonies of bacteria.



The purpose is to control and maintain the quality of the air inside a publicly used establishment, newly built multi-unit residential buildings, and public transit vehicles property to protect the health of the citizens who use such facilities and prevent environmental harm. (Revision on 2020.04.03)





Common space / Hallway

Usable in various places  
**Valkyda Airclite**



Kindergarden

Library



Hospitals and Nursing homes



**VALKIDA**

School





# VALKIDA

## RECESSED LIGHT

Front door / dress room / pantry

LED 20W (max)

LED 10W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

W260 X D260 X H50 (Cut-W240 X D240)

W200 X D200 X H50 (Cut-W180 X D180)

## TRIMLESS DESIGN

A neat, modern look  
without trims



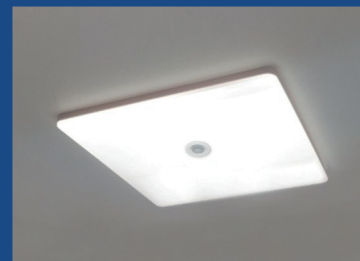
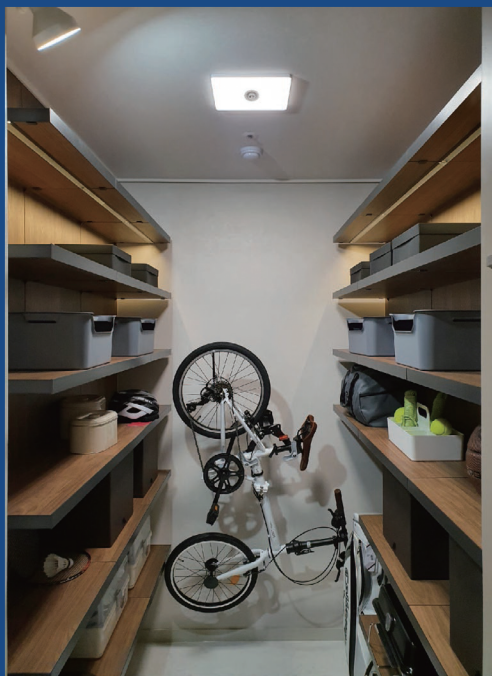
Light



Sensor



Bacterial  
reduction



# VALKIDA

## RECESSED LIGHT

Kitchen / Bathroom  
/ Dressroom / Pantry

LED 30W (max)

LED 40W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel



## Embedded type

W700 X D120 X H50 (Cut-W680 X D100)

W1000 X D120 X H50 (Cut-W980 X D100)

## TRIMLESS DESIGN

A neat, modern look  
without trims



Light



Bacterial  
reduction



## Basic type

W700 X D120 X H40

W1000 X D120 X H40

# VALKIDA

## CEILING / WALL LIGHT

Balcony / Outdoor unit room

LED 8W (max)  
3000K - 5700K  
InjectionPC  
InjectionABS  
W150 X H50

LED 15W (max)  
3000K - 5700K  
InjectionPC  
InjectionABS  
W230 X H65

## COMPACT DESIGN

A compact product with  
a wide light dispersion



조명



세균저감





# VALKIDA

## CEILING / WALL LIGHT

Balcony / Outdoor unit room

LED 15W (max)  
3000K - 5700K  
InjectionPC  
InjectionABS  
W220 X H65

LED 15W (max)  
3000K - 5700K  
InjectionPC  
InjectionABS  
W250 X H80

## TRIMLESS DESIGN

A neat, clean design without trims



Light



Bacterial  
reduction





# VALKIDA

## DOWN LIGHT

Hallway / bathroom / common area

LED 12W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

W173 X H65 (CUT : W155)

LED 8W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

W105 X H50 (CUT : W95)

## TRIMLESS DESIGN

A neat, clean design without trims



Light



Bacterial  
reduction



# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

LED 6W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W130 X D63 X H65 (CUT:W115 XD45)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT





# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

LED 12W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

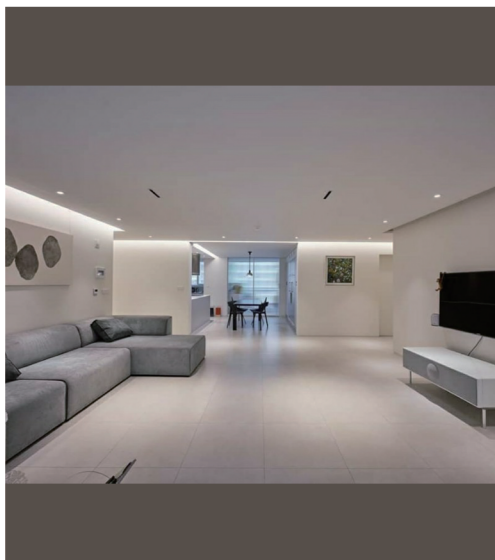
W233 X D63 X H42 (CUT:W215 XD45)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT



# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

LED 8W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

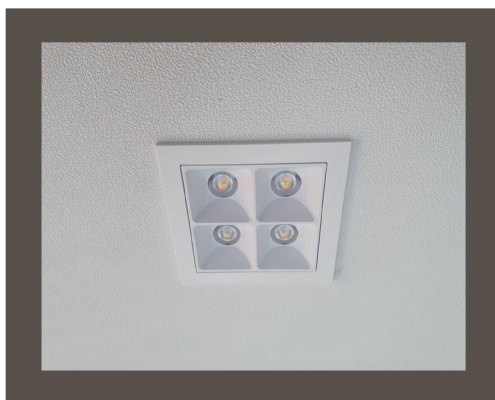
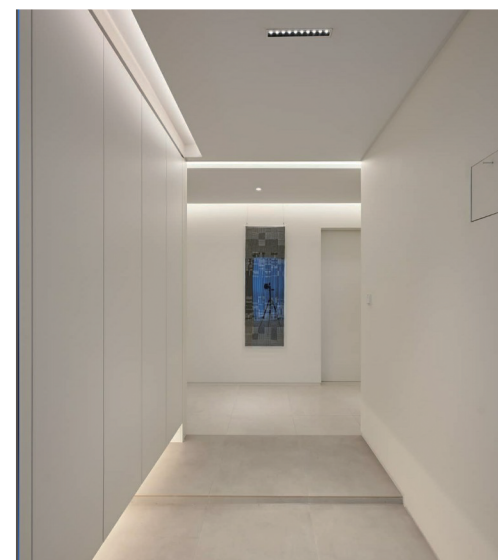
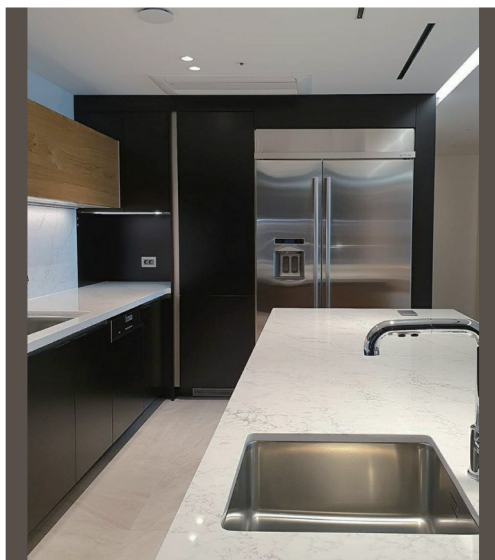
W115 X D115 X H42 (CUT:W98 XD98)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT



# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

LED 12W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

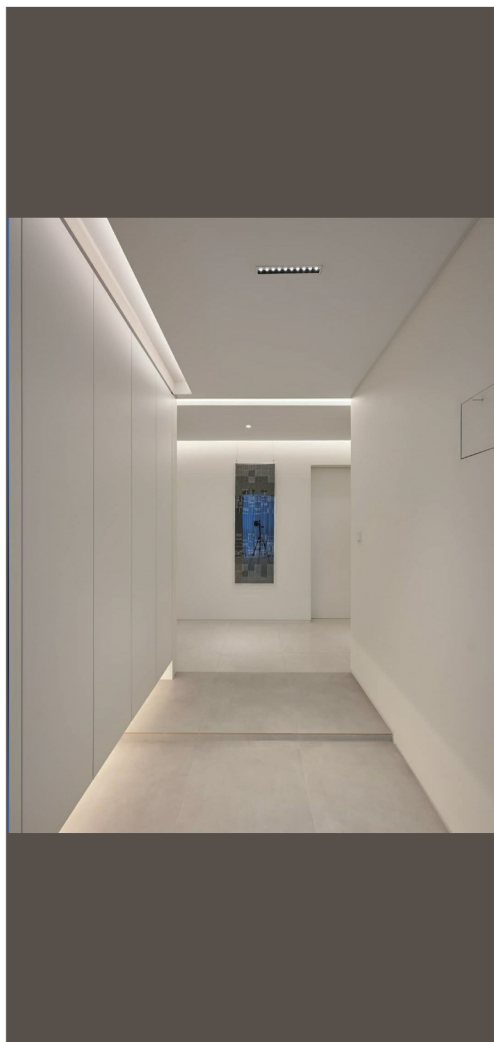
W135 X D135 X H42 (CUT:W118 XD118)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT





# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

3000K – 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT

LED 6W(MAX)

W112 X H45 (CUT:W100)



LED 8W(MAX)

W145 X H45 (CUT:W120)



# VALKIDA

## RECESSED LIGHT

Dining Table / Hallway

3000K – 5700K

InjectionPC

InjectionABS

Steel

LED 8W(MAX)

W112 X H45 (CUT:W100)



## PIN UP DESIGN

A modern design  
that prevents flashing



LIGHT

LED 8W(MAX)

W105 X H50 (CUT:W95)



# VALKIDA

## RECESSED LIGHT

Living Room / Bedroom  
/ Kitchen / Dressing Room

3000K – 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

## COMPACT DESIGN

Makes your kitchen  
space look more open



LIGHT

LED 10W(MAX)

W165 X H45 (CUT:W150)



LED 15W(MAX)

W165 X H45 (CUT:W150)





# VALKIDA

## RECESSED LIGHT

Dining Table / Hallway

3000K - 5700K

Beam Angle 15,24,40

InjectionPC

InjectionABS

LED COB 8W~12.5W(MAX)

W110 X H60 (CUT:W95)



## POINT DESIGN

A modern design  
that prevents flashing



LIGHT

LED COB 16W~25W(MAX)

W110 X H60 (CUT:W95)



# VALKIDA

## RECESSED LIGHT

Dining Table / Hallway

LED 10W (max)

3000K - 5700K

InjectionPC

InjectionABS

Steel

WhiteBody

Reflector(Chrome, Black, White)

W110 X H60 (CUT:W95)

## POINT DESIGN

A modern design  
that prevents flashing



LIGHT

