

Specifications

Aeroclear_s

Model	SN-ES2		
Power supply (AC adapter)	AC 100 to 240V, 50 to 60 Hz		
Power supply (main unit)	DC 12V		
Dimensions	Width	187 mm	
	Depth	145 mm	
	Height	268 mm	
Weight	Approx. 1.4 kg (excluding AC adapter)		
Cord length	Approx. 1.5m		
Operation mode	Low	Standard	High
Air volume	0.13m ³ /min	0.24m ³ /min	0.4 m ³ /min
Electrical power consumption	14W	15W	18W
Operation sound	22 dB	28 dB	40 dB

The specifications may vary depending on the operating and ambient conditions.



About the development of Deep UV-LED technology

Since 2006, Nikkiso has been conducting research and development under the expert guidance of a Nobel Prize in Physics Prof. Hiroshi Amano on the inhibitory effect of deep ultraviolet light (UV-C spectrum) on the growth of viruses and bacteria.

Meanwhile the microbiological effect of ultraviolet light, especially from the short-wave UV-C spectrum, is well established in the medicine and environmental hygiene. Nikkiso is the first company which has succeeded in reliable mass production of such light emitting diodes with this special wavelength range, the UV-C spectrum.

As a pioneer in the development of "Deep Ultraviolet LEDs" - Deep UV-LEDs or DUV-LEDs - Nikkiso will continue and intensify its research and development activities of light sources in the ultraviolet spectrum. The goal is to replace conventional mercury lamps with Deep UV-LEDs.



<https://www.nikkiso-europe.eu/en/products/deep-uv-led-devices>

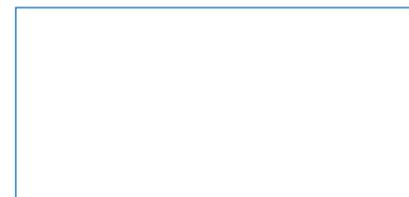
Manufacturer

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Local partner



Aeroclear_s

Air disinfection device



Developed and manufactured
by one of the world's leading manufacturers of dialysis systems





Aerosol-borne viruses and bacteria contained in the ambient air as well as allergens and odour-causing substances are reliably inactivated by the small and compact device **Aeroclear**.

The professional air disinfection device, which was developed in cooperation with a Nobel Prize winner in Physics, uses further developed, innovative Deep UV-LED technology.

From the development of the **Aeroclear** throughout its production, Nikkiso is continuously requesting very high quality standards.

Over 8,500* **medical facilities in Japan** have chosen **Aeroclear** for air disinfection of their premises since product launch.

Aeroclear, thanks to its small footprint and simple handling, is predestined to be used at places like:

- ✦ medical/dental facilities
- ✦ schools and educational institutions
- ✦ offices
- ✦ home

* as of March 31st, 2021

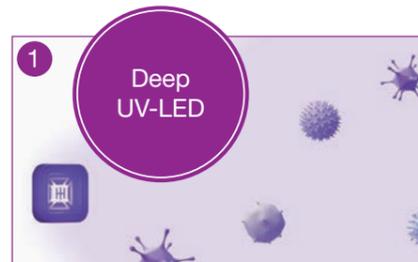
Deep UV-LED Technology × Photocatalysis

Aeroclear combines two modes of action of ultraviolet radiation (UV-C radiation) that optimally complement each other.

The contaminated air is first irradiated with the UV-C light emitted by the special Deep UV-LEDs ①. This UV-C radiation has a direct impact on the genetic material (DNA/RNA) of viruses and bacteria and strongly suppresses their reproduction.

This action is complemented by the second effect that the UV-C light initiates photocatalysis on the specially coated metal filter fleece ②. This produces short-lived radicals and has a chemical effect on viruses and bacteria as well as allergens and other substances, eliminating them in a short time.

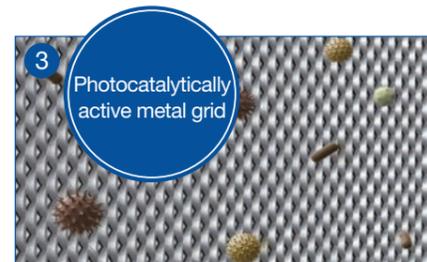
This oxidative effect is exploited once again at the photocatalytically active metal grid ③ that follows the metal filter fleece, so that the air-borne harmful substances carried by the aerosol are inactivated by the **Aeroclear**.



UV-C radiation acts directly on the molecules of the genetic material of viruses and bacteria and suppresses their ability to multiply.



Stops the bacteria and viruses bound to dust and moisture to achieve the chemical effect of photocatalysis.



Odor-forming substances as well as allergens and airborne bacteria are eliminated by the photocatalytic effect.

Aeroclear

Adopted in
over 8,500*
medical facilities
in Japan

Effective

It is proven that the combination of UV-C radiation and photocatalytically active parts acts reliably on aerosol-borne bacteria and viruses as well as odours and allergens.

Breathe freely

Tried and Tested

Carefully selected components and long-life LEDs are the prerequisite for an all-day continuous operation – with very easy installation and handling.

Plug & Breathe

Flexible

The small footprint and light weight allow flexibility and disinfection of the air where it is needed.

Point of Breath

Easy-care

The surface can simply be wiped with a soft damp cloth and the filter can be vacuumed.

Simple cleaning

Economical

Energy-saving Deep UV-LEDs and an optimised fan ensure minimal energy costs.

There are no further operating costs, as only components for continuous operation are used.

Low power consumption

Ecological

Thanks to the further development of the Deep UV-LED technology environmentally harmful light sources containing heavy metals can be replaced.

In addition, no consumables are required.

No filter replacement

