

TACHIBANA ENGINEERING

立花工程(香港)有限公司

香港新界葵涌青山道403號

匯城集團大廈6樓C室

電話 : 852 2403-4898

傳真 : 852 2403-4000

電郵 : info@te.com.hk

Whatsapp : 852 9318 1388

AIR SANITIZING efficiency

Sanifica**ARIA** Beghelli

99.9% proven effectiveness eliminating viruses and bacteria

Safe & continuous sanitization

Effective in the presence of air conditioners

Silent run operation

Safe for people

Ozone free - O₃

Zero exposure to harmful UV-C

UV  **OXY**[®]
TECHNOLOGY

Beghelli

Sanifica **ARIA**
Beghelli



Air sanitizing is essential for safety.

For the safety of our community, environments such as offices, gyms, hospitals, schools, hotels and multi living facilities require sanitizing to control and eliminate every vegetative, bacterial and viral organism. Very often, the term "air purification" is limited to being perceived as simply making the air cleaner. Actually, the process of air purification is much more complex and can be carried out in various ways to clean and disinfect an environment.

To reduce air contaminant load without interfering with people's habits, Beghelli has created a technology that replicates and intensifies the natural purifying action of solar radiation; minimizing or eliminating any contaminants.

UvOxy® is an air purification system inspired by nature; which uses the technology of an internally illuminated UV-C flow cell, through which the forced circulation of air results in air that has been sanitized and purified, without any harmful effect to the environment or people.

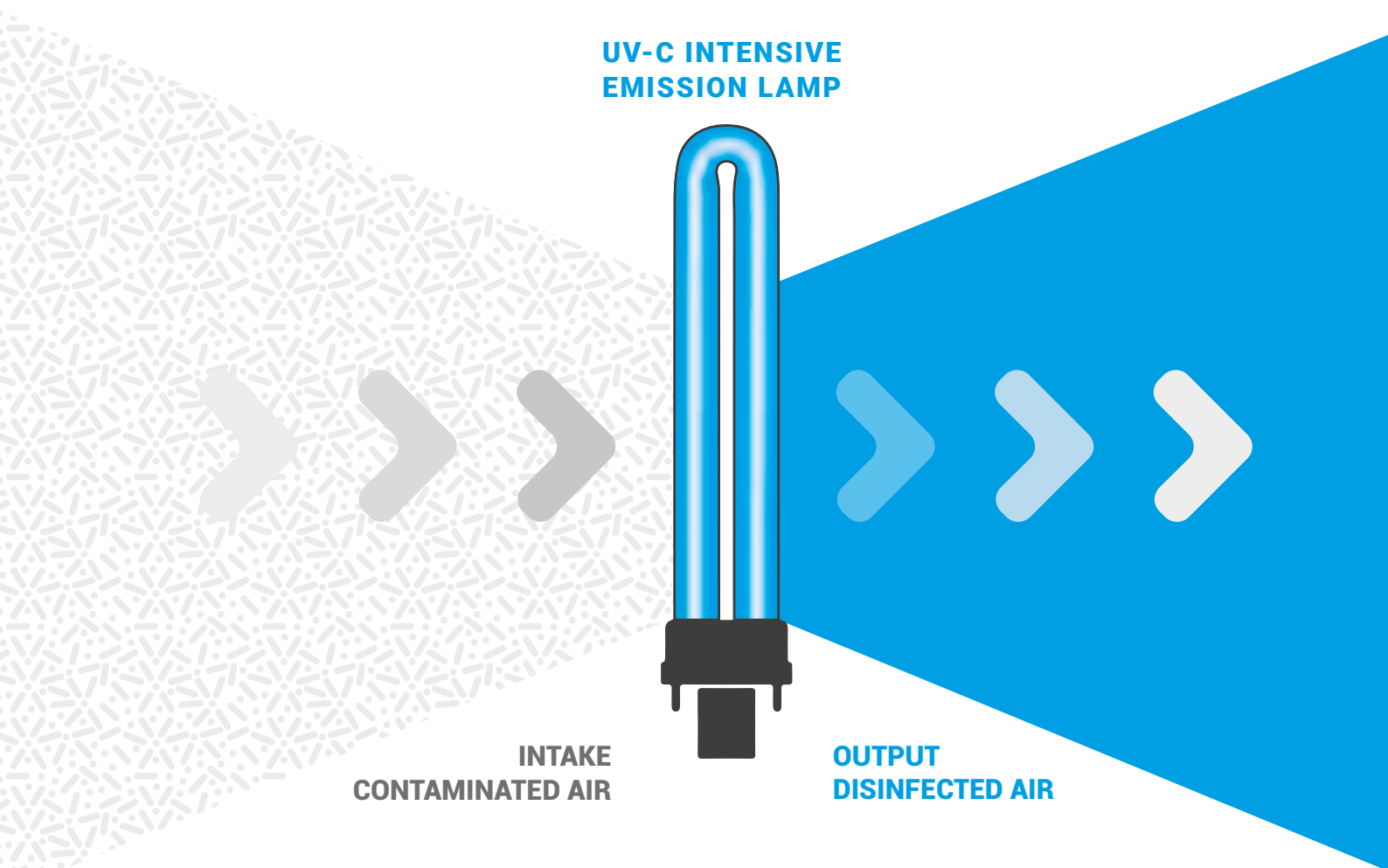
Light is the only element needed to accomplish this, and Beghelli continues to harness light in order to provide people with safety and comfort.

UVoxy[®]

TECHNOLOGY

UvOxy[®] technology: the Beghelli solution to sanitize air in civil and service sectors

The family of UvOxy[®] solutions has been designed for sanitizing air through a closed chamber system that is saturated with UV-C light. The UvOxy[®] flow cell draws in contaminated air and instantly provides sanitized air.



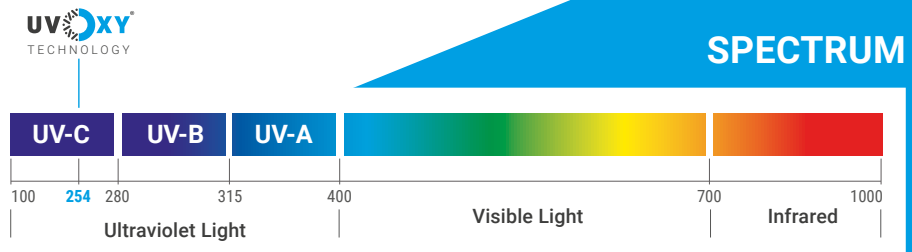
EFFECTIVE UP TO ***99.9%** AGAINST BACTERIA AND VIRUSES

UV-C radiation is generated only inside of the chamber, the intake system carries the aerosols contained in the air and puts them into contact with the sanitizing light. Microorganisms contained in the "nuclei" in the aerosols are deactivated as soon as they pass through the chamber thanks to a specific wavelength of UV-C light. Under these controlled conditions,

the higher germicidal level of UV-C radiation ensures complete sanitization of the air. The effectiveness of the UvOxy[®] system has been successfully tested on various types of bacteria and spores that are much more resistant to UV-C radiation, when compared with the Coronavirus.



UvOxy® products feature multiple innovative technological solutions that Beghelli has protected with patent applications.



SAFETY AND EFFICIENCY OF A CONTROLLED UV-C EMISSION SYSTEM

The UV-C sanitization system employed by UvOxy® technology has been designed to prevent direct harmful UV-C emissions. In nature, at certain wavelengths (including UV-C), ultraviolet rays are harmful to humans and other life forms, but Earth's atmosphere protects us from them. By recreating rays artificially, to avoid harming people, in many UV-C devices the lamps are shielded or are used in areas that

limit exposure. Another potential danger is the generation of Ozone. Common UV-C systems can generate ultraviolet rays even at wavelengths below 254 nm, but not UvOxy® technology, which was specifically designed to avoid Ozone generation (Ozone free). The air sanitizing process based on this technology has reached such a level of safety that it can be used even if there are people in the areas being treated.

SAFETY

- Use of UV-C lamps (Ozone Free)
- Closed-chamber technology to prevent people from direct contact with UV-C rays
- Complies with the provisions enforced for electrical safety and the management of UV-C sources, including maintenance
- Tested according to the requirements of ISO15714 and compliant with IEC 60335-2-65 (Air Purifier)

EFFICIENCY

- UV-C emission with wavelength calibrated at 254nm
- Instant air sanitation via controlled closed Flow Cell the utilizes a Mirror Silver reflection system
- Automatic temperature adjustment via UV-C tube microcontroller, which maintains the system at maximum efficiency in any environmental condition

Models and testing

product range

SANIFICAARIA MODEL RANGE

Designed to safely and silently **operate in the presence of people**. The Italian minimalist design allows SanificaAria to be used in both civil and service sectors. The core technology is the patented UvOxy® purification system. A unique system that does not emit any harmful UV-C radiation and does not generate Ozone. This allows environments to be sanitized even in the presence of people. SanificaAria is ideal for use in public areas such as hospitals, hotels, schools, restaurants, offices, retail, bars and multi-living areas.



COMMITMENT FOR QUALITY
controlled by Independent Third Parties.

Do you want to know how?

Scan the QR CODE!



Effectiveness of reduction of the microbiological load verified on target microorganisms by checking the reduction percentage on the air emission of the device. Details of the test also on the website geltinternational.it/tecnal/beghelli

SanificaAria 200 connect

- Remote management via APP **domE** Beghelli
- APP Bluetooth control (any smartphone)
- Built-in control



UV
OXY
TECHNOLOGY

SanificaAria 30

Management by built-in control



UV
OXY
TECHNOLOGY



PRODUCT TESTED ACCORDING TO STANDARD ISO 15714

Beghelli products use UV-C sources that irradiate the volume of air treated with enough energy to break down up to ***99.9%** of microorganisms. Gelt International, scientific consulting company, and Tecnal, UNI CEI EN ISO/IEC 17025:2018 accredited laboratory, carried out efficacy tests using various microorganisms such as: *Serratia marcescens*, *Bacillus subtilis*, *Cladosporium sphaerospermum*, as laid down in ISO 15714, since these are particularly resistant to UV rays. Their reduction, expressed as a percentage, is of more than ***99.9%**. Therefore, it guarantees that the product effectively breaks down a broad range of bacteria, viruses, coronaviruses and other microorganisms. The product is classified according to IEC 60335-2-65 standard for air purifiers.

Product classified according to the requirements of IEC 60335-2-65 standard

* Tests carried out at a UNI CEI EN ISO/IEC 17025:2018 accredited laboratory have shown the effectiveness of UvOxy on a wide range of bacteria, viruses, other microorganisms

SanificaAria 200 connect

sanitization



The SanificaAria 200 connect is an all-in-one solution that safely filters and sanitizes the air via a variable speed axial fan intake that draws air into the closed chamber containing the UV-C source. This chamber is where the process of sanitization is carried out. The UV-C cartridge with UvOxy® technology is installed inside the unit and has an average service life of 12* months. Cartridge replacement is easy and ensures the purification properties of the SanificaAria 200 connect over time. SanificaAria 200 connect can be controlled by means of an integrated button or a simplified bluetooth APP. The device is also available in a connected version with dedicated APP DOM-e Beghelli for remote control of parameters and activation time.

Applications

Hospitals, hotels, schools, offices, restaurants, shops, bars, houses, etc.

Tests and certifications

Tests carried out according to ISO15714 standard on different strains of bacteria, viruses and other microorganisms.

The device also complies with the safety requirements laid down in IEC60335-2-65 standard on air purifiers

Specifications

Power supply unit 120-277V

with 2m long cable

Minimum power consumption 36 W

Maximum power consumption 60 W

UV-C Wavelength 254nm

Purification rate > 200 m³/h

UV-C power 24 W

UV-C radiation power 7,5 W

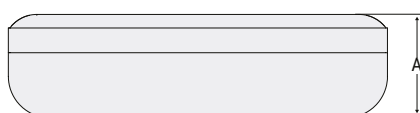
Recommended service life of the Cartridge* 12 months

* Service life calculated for on average daily usage of 24h



EXEMPLIFICATION OF AIR SANITIZING

Room size		
Surface m²	Cubic m³	Sanitizing time h
42	100	0,5
85	200	1
125	300	1,5
170	400	2
250	600	3



Dimensions mm			Sanitizing rate
A	B	H	
125	455	296	200 m³/h

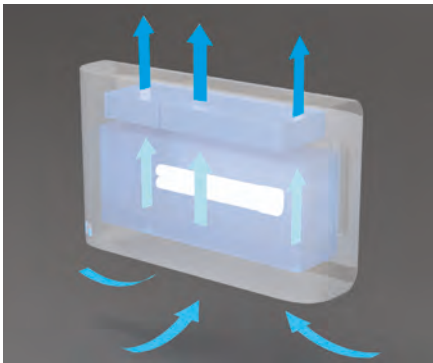
FLOOR-STAND INSTALLATION



WALL-MOUNT INSTALLATION



	Item	Radiation power W	Description	Purification rate	Web connection	Absorption		Weight Kg	Pack
						MIN	MAX		
	26702	7,5	SANIFICAARIA 200 CONNECT	200 m³/h	Via APP	36W	60W	10	2



INTELLIGENT AIR SANITIZING

UvOxy® technology, which draws contaminated air in and provides sanitized air, is standard on all Beghelli SanificaAria products. The SanificaAria 200 connect features a UV-C chamber that has been sized to purify a high volume of air. Ideally suited for medium to large rooms, the SanificaAria 200 features 3-speed variable axial fans; making it possible to treat up to 200 m³ of air per hour. The integrated automatic temperature control maintains the unit at maximum efficiency at all times.

LOCAL AND REMOTE CONTROL

SanificaAria 200 connect can be managed locally or by means of a simplified APP that turns your smartphone into a remote control. In the connect version, by using the APP dom-e Beghelli, the user can control all the functions of the air purification system remotely.



APP for local control
(via bluetooth)



APP for remote control

SUPPLIED



POWER CORD
length 2 m

SPARE PARTS

replace every 12* months of operation



SANITIZING CARTRIDGE uvOxy 200
With built-in protection filter and UV-C flow cell
Item 26721

SanificaAria 30

sanitization

UV-OXY
TECHNOLOGY



BUILT-IN CONTROL

ROOM UP TO 50m²

The SanificaAria 30 is a compact solution that safely filters and sanitizes the air via a variable speed axial fan intake that draws air into the closed chamber containing the UV-C source. This chamber is where the process of sanitization is carried out. The UV-C cartridge with UvOxy technology is installed inside the unit and has an average service life of 12* months. Cartridge replacement is easy and ensures the purification properties of the SanificaAria 30 over time. Flexible mounting options including wall, slab or floor stand allow for versatile installation. Control of the unit is by an integrated button.

Applications

Hospitals, hotels, schools, offices, restaurants, shops, bars, houses, etc.

Tests and certifications

Tests carried out according to ISO15714 standard on different strains of bacteria, viruses and other microorganisms.

The device also complies with the safety requirements laid down in IEC60335-2-65 standard on air purifiers

Specifications

Power supply unit 120-277V

with 2m long cable

Consumption 25 W

UV-C Wavelength 254nm

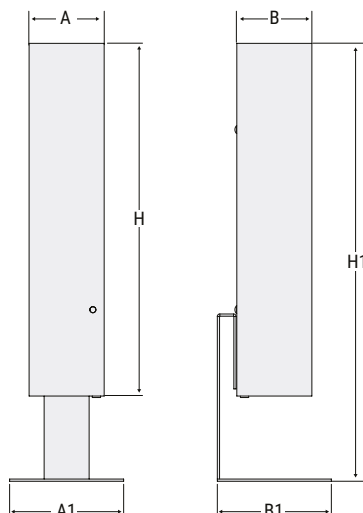
Purification rate 30 m³/h

UV-C power 18 W

UV-C radiation power 5,5 W

Recommended service life of the Cartridge* 12 months

* Service life calculated for on average daily usage of 24h



EXEMPLIFICATION OF AIR SANITIZING

Room size		
Surface m ²	Cubic m ³	Sanitizing time h
6	15	0,5
13	30	1
25	60	2
38	90	3
50	120	4

Dimensions mm						Sanitizing rate
A	B	H	A1	B1	H1	
100	100	475	152	152	584	30 m ³ /h

WALL AND CEILING MOUNT



FLOOR-STAND



LAY ON MOUNT



SUSPENSION MOUNT



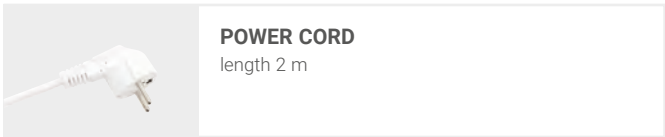
	Item	Radiation power W	Description	Purification rate	Web connection	Absorption AC	Weight Kg	Pack
	26700	5,5	SANIFICAARIA 30	30 m³/h	-	25W	3,5	4



INTELLIGENT AIR SANITIZING

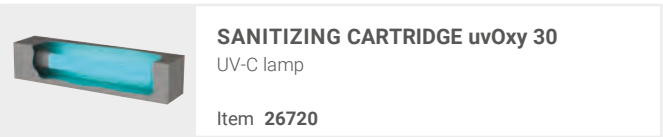
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SUPPLIED



SPARE PARTS

replace every 12* months of operation



UvOxy[®] applications

recommended applications





UvOxy[®] applications

recommended applications





Technology tested in Tecnal laboratories under the supervision of Gelt International. For information on the effectiveness of reducing the microbiological load, scan the QR code or visit the website geltinternational.it/tecnal/beghelli

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