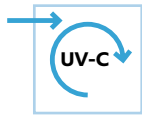


*Pure and germ-free air by using UV-C,
Plasma or UV/Ozone*



In consulting offices, hospital rooms and surgeries



Purification of ambient air by UV C light (even in the presence of people)



In all areas where a lot of people move they are constantly, they are constantly exposed to contamination of micro-organisms. To prevent these risks, an increasing number of hospitals and surgeries are starting to decontaminate ambient air and surfaces in by using UV C light. With the help of UV C radiation, up to 99,9 % of all micro-organisms can be removed. UV C rays are used in the process without the production of ozone.

Confirmed by a testing institute: an examination carried out with 1000 staff members in a closed and air-conditioned office building in Montreal in 2003 impressively confirmed the efficiency of the UV-C technology. A so-called multiple double-blind test resulted in the following statement: The UV-C technology strongly improves the health and job performance of staff in an office building.

Effectiveness tests on UV C treatment provide evidence

The treatment with UV C light leads to a considerable reduction in micro-organism flora.

The advantages of UV C treatment:

- Reduces the amount of germs during production
- Germs form no resistance
- Prevention of cross-contaminations
- No use of chemicals

People can be present in the room during the purification process without health concerns.

Inlet air purification



The inlet air germicidal module for air conditioning and ventilation systems provides for the routing of external air that is sucked in via UV-C high-performance emitters which have a reliable germicidal effect. Microorganisms penetrating from outside are eliminated and the entire ventilation system is kept stable. Bacteria, viruses, yeasts and mould spores are eliminated and staff members are protected against pathogenic germs.

UV C purification light



Air purification plug-in ceiling modules.

UV C immersed emitter



For the decontamination of spray humidifiers by way of UV C radiation, that kills off 99,9% of the bacteria and other pathogen germs in water.

UV C circulated air decontamination device



Minimises the numbers of germs plug-in ceiling modules.

Water disinfection, no legionella bacteria



Pure Tap Water (PTW 15)

Water disinfection device for disinfection of potable water by UV-light (without ozone)

Functioning: The UV-C-light harms the DNA of bacteria, viruses, fungi and yeasts. The so harmed microorganisms die off during short time. A reproduction is impossible.

Technical details

Pure Tap Water (PTW 15)

Dimensions:	321 x 114 x 143 mm
Power rating:	15 W
Lamp wattage:	11 W
Supply voltage:	230 VAC, +/-10%/50 Hz
Lamp life:	3.000 h
Maximum number of switching cycles/lamp:	10.000
Max. water pressure 10 bar: (145 PSI)	
Flow rate:	
• 99,99% elimination of E-Coli bacteria for a single pass:	5 l/min
• 99,9% elimination of Legionella bacteria for a single pass (by changing the flow regulator):	15 l/min



The installation directly before the water intake is possible.



Immersion lamp

Sterilization of air washers in industry, reduction of germs by UV-C/ozone-lamps

Water-tight immersion lamp for the purification of water in air washers, wells, cisterns, tanks and humidification systems. The UV-C-radiation of the low-pressure lamp, of precisely 253,7 nm, reliably destroys bacteria, viruses and other germs contained in the water.

Technical details

UV-Water disinfection

(nine different models available)

Input power:	98 %
Cold water up to 38°C:	2,8 till 150 m ³ /h
Warm water up to 65°C:	3,5 till 97 m ³ /h
Power rating:	55 till 1590 W



UV-Water disinfection

Disinfection of waste-, potable- and process-water
Reduction of bacteria and pathogenic germs by UV-C (without ozone).

Healthy well-being in everyday life – thanks to efficient odour removal and air purification



Clean air – an important aspect in the modern day

On average people in Europe spend 90% of their time indoors. According to information from the Federal Environment Ministry, a person breathes in average of 10-20m³ perday, depending on their age and activeness, which equates to 12-24kg of air. This is more than what a person ingests from food (food and water). All the more important for high quality of air.



Ambient air with unhealthy “side effects”

Rooms are frequently full off pollutants such as solvents (paint, varnish, artificial coatings, detergents), formaldehyde (carpets, disinfectants, chipboard), emollients (floor coverings, seals, shower curtains), allergens (eggs and excrement from mites, pollen) and germs (bacteria, mould spores and viruses). In offices, the likes of laser printers and copiers are a source of ultra-fine dust.

At home – take a relaxing breath and sleep peacefully

The Cleanair Home reliably filters and removes pollen, spores, house and fine dust, which can be the sources of → *allergies* and → *asthma*. Fine dust is effectively filtered out of the air. At → *home*, they neutralize poisonous emissions from furniture, home textiles and paint (VOCs). In winter, they destroy viruses and filter bacteria from the air and thus → *prevent colds* and cater for → *healthy sleep*.



Healthy, germ-free and clean air with plasma and high-performance filter technology



Cleanair Home/Cleanair Plasma W

The Cleanair Home combines plasma technology with the high-performance filter technology of an HEPA H13 filter, in order to remove fine dust. It removes germs from indoor air and destroys harmful substances. With the Cleanair Home, you protect yourself and others from pathogens, you can concentrate better during the day and sleep peacefully at night. The unit is extremely quiet in operation, is easy to operate and also even looks good, making it perfect for placing in living rooms and lounges.



Just a few steps to getting odourless and germ-free air

- **Pre-filtering for pre-separating**

For pre-separation purposes, a pre-filter holds back polluting contaminants contained in the air.

- **Plasma step in combination with an electrostatic filter/HEPA-H 13 filter**

The reaction and oxidation process based on plasma is initiated by the flow through of a high voltage discharge source: This way, odours among other things are eliminated.

→ *Alternatively, in some units, a HEPA filter (HEPA - High Efficiency Particulate Air filter), is a filter for separating the smallest of suspended solids from the air, is used as the last step. This way, the effects of the recycled fibre stock (dead bacteria, etc.) resulting from the plasma step remain in the unit.*

- **Activated carbon filter as storage reactor**

Compounds that have not yet been oxidized are retained in the carbon filter and oxidized. The activated carbon acts in this process as a storage reactor, self-regenerates during the process and has a very long service life.

Technical details

Cleanair Home

Room size:	100 m ³
Power rating:	175 W
Dimensions:	350 x 350 x 1000 mm
Setup:	Multi-step setup: Pre-filter, fan, plasma, activated carbon, HEPA filter

Technical details

Cleanair Plasma W

Room size:	200 – 300 m ³
Power rating:	175 W
Dimensions:	304 x 781 x 276 mm
Housing:	Stainless steel
Setup:	EC fan-technology
Available as floor- or wall-model	

Waiting rooms at doctors' surgeries

The disinfection of the air by way of the plasma step leads to a decrease in the transmission of diseases and better well-being.

Hospital fine filtering of dust

Reduction in air contamination and germs in treatment rooms, cleanrooms, waiting rooms, surgeries, etc.

Ambient air free of germs and odours



Freshair

The Freshair works with UV light and a small amount of ozone. The ozone generated lies below the threshold value of 17.5 mg/h, i.e. below the natural concentration of ozone. Thus it is harmless for humans and animals. Available in many colours and various shapes.



PRODUCT ADVANTAGES

- Germs form no resistance
- No residues (e.g. NO_x)
- No dependence on the building's ventilation system
- For mobile use, ceiling or wall mount possible
- No radiation exposure outside the unit
- Reduces concentration of odour in the air (e.g. cigarette smoke, cooking odours)

Technical details

FRESHAIR

Flow rate:	15 – 60 m ³ /h
Power rating:	25 W
Dimensions:	329 x 92 x 92 mm (L x W x H)



Multiair 250

The Multiair Timer combines the benefits of Saniair and Freshair in one device. The Multiair can be used as quick disinfection of room air (without the presence of people) as well as an air cleaner in continuous operation (people can be present). The kind of modus can be closed with the help of a security key.

The compact device now is available with Timer and switch-off function. That means that the user can determine beginning and end of the process without being on-site.

Technical details

MULTIAIR 250

Adapted for rooms from	15 to 60 m ³ (disinfection)
Elimination of odours:	250 m ³
Power input:	30 W
Power supply:	230 V
Special lamps:	1 x 8 W, 1 x 38 W
Dimension:	430 x 130 x 130 mm (L x W x H)

Surface disinfection with UV C and ozone (in the absence of persons)



The treatment of the ambient air with UV C light and ozone quickly and highly effectively removes germs, mould spores and smells.

Advantages of the treatment:

- Effective even in places that are difficult to access
- Disinfected rooms can be re-entered after a short time
- Germs form no resistance
- No use of chemicals
- Surfaces are disinfected without any chlorine
- No formation of condensation

During use, there must usually be no persons in the room. Systems with ozone control are possible.



During a validation process by the **Labor für Mikrobiologie und Hygiene in Hoyerswerda (test report no. 11410, June 2015)**, the germ-reducing effect of ozone against various micro-organisms was tested. In sum, an anti-microbial and bactericide effect of ozone against the germs *Aspergillus niger*, MRSA *Staphylococcus aureus* and *Escherichia coli* could be proven.

Odour- and mould-free areas thanks to ozone



Saniair 125/250/400

Saniair - used for odour disinfection, purification and other fast applications (without persons' presence). The Saniair air purifier exploits UV-C light and a higher quantity of pure ozone. It removes microorganisms and odours in ambient air and on surfaces. Germs and spores are eliminated. All domestic pet and mite allergens are eliminated and so are solvent, kitchen and cigarette odours.



Saniair 800

For fast applications in rooms that are 800 m³. Especially suitable for the following applications: garbage rooms, sterile and laboratories. There are systems for bigger rooms upon request.

Results for effectiveness/study DTU/study Laborius: The hygiene inspection of a Sanipro unit in a butchery (refrigerator rooms, saltery, salesroom) by the Centre for Safety at Work, Quality Management and Occupational Medicine Dr. Laborius (ZA QA) in Eckernförde confirms as follows: „The results of the UV-C / ozone treatment clearly show [...] that this kind of reduction is suitable best for the germs occurring in the shop.“

Please contact us for individual advice.
We are ready for you – on the phone or on site!

An overview of the fields of application of oxytec products

Office buildings

Surgeries

Hotel business

Catering

Railway stations

Private



Inlet air/circulating air



Circulating air/indoor air

- Presence possible
- Presence not possible



Extracted air

- with ozone (plasma)
- with UV-C/ozone

Office/meeting rooms

Staff areas

Kitchens

Living spaces

Cold storage/storage rooms

Cleanrooms

Garbage rooms

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