Clean Air
Environmental

We bet on UVc technology to beat the virus.

Education  Leisure  Work  Health

Pure air for all aspects of your life.
SODECA manufactures air purifiers for residential, commercial, educational, industrial and hospitality applications.

Cleaning and purification is carried out by capturing particles with different stages of filtration and by treating the air using germicidal UVc chambers or ion plasma ultraviolet lamps, depending on the chosen model.

We are increasingly aware of the importance of breathing clean and pure air. Poor air quality significantly affects people’s health and performance, with fatigue and respiratory problems being amongst the most common problems.

This catalogue just details a small amount of what we can offer. Do not hesitate to contact us and we will put our experienced team at your disposal.
Sodeca air purifiers will accompany you during all the important stages of your life.

I EXIST BECAUSE I BREATHE
In a professional workplace, increasingly high occupation rates mean that regular ventilation is not enough to achieve good indoor air quality. It is necessary to complement ventilation with air purifiers to obtain an optimal, healthy environment of clean, pure air.

Studies show that the better the air quality, the better our performance, increasing the efficiency of our daily actions based on the improvement in blood oxygenation.
The International Ultraviolet Association (IUVA) endorses that UVc disinfection technologies play an important role in the multiple processes used to reduce the transmission of the virus that causes COVID-19, based on disinfection data and empirical evidence. UVc is a well-known disinfectant for air, water and surfaces which can help reduce the risk of COVID-19 contagion when applied correctly.

UVc DOSE

Some examples of effective dosage for virus and bacteria inactivation —

For more information you can consult: www.iuva.org

* Table according to IUVA (International Ultraviolet Association)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>NAME</th>
<th>INACTIVATION DOSE (mJ/cm²)</th>
<th>REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1ª (90%)</td>
<td>2ª (99%)</td>
</tr>
<tr>
<td>BACTERIA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Legionella pneumophila</td>
<td>3,1</td>
<td>5,0</td>
</tr>
<tr>
<td></td>
<td>Salmonella enteritidis</td>
<td>5,0</td>
<td>7,0</td>
</tr>
<tr>
<td></td>
<td>Salmonella typhimurium</td>
<td>3,0</td>
<td>11,5</td>
</tr>
<tr>
<td></td>
<td>Shigella dysenteriae</td>
<td>0,5</td>
<td>2,0</td>
</tr>
<tr>
<td></td>
<td>Shigella sonnei</td>
<td>3,2</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td>Vibrio cholerae</td>
<td>0,8</td>
<td>1,4</td>
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<tr>
<td></td>
<td>Citrobacter diversus</td>
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<td></td>
<td>Mycobacterium tuberculosis</td>
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<td>4,3</td>
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<td></td>
<td>Listeria monocytogenes</td>
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<td>3,0</td>
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<td>PROTOZOA</td>
<td>Cryptosporidium parvum</td>
<td>&lt;2</td>
<td>&lt;2</td>
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<tr>
<td></td>
<td>Giardia lambia</td>
<td>&lt;10</td>
<td>~10</td>
</tr>
<tr>
<td></td>
<td>Giardia muri</td>
<td>&lt;2</td>
<td>&lt;2</td>
</tr>
<tr>
<td></td>
<td>Encephalitozoon intestinalis, microsporidia</td>
<td>3,0</td>
<td>5,0</td>
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<tr>
<td>VIRUS</td>
<td>Adenovirus 40</td>
<td>55,0</td>
<td>105,0</td>
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<td></td>
<td>Echovirus II</td>
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<td>14,0</td>
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<td></td>
<td>Hepatitis A</td>
<td>5,1</td>
<td>13,7</td>
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<tr>
<td></td>
<td>Poliovirus Type 1</td>
<td>5,7</td>
<td>11,0</td>
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<tr>
<td></td>
<td>Rotavirus SA11</td>
<td>8,0</td>
<td>15,0</td>
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</table>

Based on evidence that UVc light has been used for 40 years to remove viruses and bacteria from wastewater and pharmaceuticals products, including Coronaviruses. Some viruses or bacteria may be more susceptible to UVc disinfection than others, but they can all be inactivated with appropriate doses.

UVc light is used in hospital, medical and scientific techniques, always making specific reference to UV Germicide (UVc of 200-280 nm) and that under controlled laboratory conditions has scientifically demonstrated that it inactivates two Coronaviruses close to COVID-19, such as SARS-CoV-1 and MERS-CoV.

IMPROVE HEALTH

Most people spend 70% - 90% of their time being stuck inside, be it at work or at home. During this time we breathe an average of 20 to 25 Kg of air, the quality of which is vitally important to our body. Breathing clean air reduces respiratory and fatigue problems.

Good air quality improves health and improves mental and physical well-being, as well as increasing life expectancy.
### QUICK SELECTION TABLE

<table>
<thead>
<tr>
<th><strong>SV/FILTER-CG</strong></th>
<th><strong>CJK/FILTER/EC</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>F7 + F9</strong></td>
</tr>
<tr>
<td><strong>Model</strong></td>
<td><strong>m²</strong></td>
</tr>
<tr>
<td>200</td>
<td>20-50</td>
</tr>
<tr>
<td>250</td>
<td>50-100</td>
</tr>
<tr>
<td>315</td>
<td>50-140</td>
</tr>
<tr>
<td>350</td>
<td>100-140</td>
</tr>
</tbody>
</table>

*Recommended effective working area with premises 3 meters high.*
UPM/EC

UPA

**Model** | **m²**
---|---
310 | 100-200
400 | 140-250
500 | 250-350

**Model** | **m²**
---|---
310 | 50-100
400 | 100-200
500 | 200-350

**Model** | **m²**
---|---
1500 | 200-350
3000 | 300-450
4500 | 450-900

**Model** | **m²**
---|---
1500 | 200-350
3000 | 300-450
4500 | 450-900

Hotels

Manufacturing industry

General warehouses

Logistics warehouses

Airport waiting rooms

Hospital waiting rooms

4.0 technology industry

Medical industry

Pharmaceutical industry

Laboratories

Food industry

Data centers

Car industry

UPM/EC

UPA

**Model** | **m²**
---|---
310 | 100-200
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To maintain a good quality of indoor air, it is necessary to filter out particles that pollute the air, particularly the smallest particles, which are the most dangerous to health.

Air pollution in areas of high occupancy and mobility are contaminated by small particles and by gases from combustion engines. In addition, the presence of spores, mites and other bacteria or viruses can also have an adverse effect on health if they are not eliminated from the air that we breathe.

For optimum installation, the filters to be used are those classified as efficiency ePM1 ePM2.5 and ePM10 according to ISO 16890.

**EPM1 Final Filter Stages**
For applications in buildings such as schools, commercial installations or offices, the use of fine filters, of at least type ePM1, is recommended. These filter types are efficient at retaining particles between 0.3 to 1 micron in diameter and are more economically maintainable.

**HEPA final filter stages**
HEPA filters have the highest efficiency of all and are widely used in the medical industry for applications in surgical areas, to prevent the spread of bacteria and viruses. Their use in commercial applications must be accompanied by strict maintenance and replacement protocols to avoid hygiene problems due to the high concentration of microorganisms.
Filtration efficiency

It is common to refer to the efficiency of filters as being in accordance with EN 779 although the current standard is ISO 16890. Both standards deal with the efficiency of coarse and fine dust filters used in ventilation. The EN standard is based on 0.4 micron particles, the ISO 16890 standard defines the efficiency for various particle size fractions measured at intervals starting from 0.3 microns. For HEPA filters, the efficiency is measured in accordance with standard EN 1822.
APPLICATIONS IN EDUCATIONAL CENTERS

The spread of flu and colds in schools is well known to everyone. The spread of bacteria, mold and many other germs can also lead to major health problems and let’s not forget the increasingly common problems of pollen, mite allergies and asthma.

Educational centers, universities and training academies are experiencing an increase in attendance figures of students and teachers when the quality of indoor air is purified and free of pollutants.

Our solutions capture the harmful particles that create allergies and eliminate germs, bacteria and viruses to obtain an optimal and healthy air quality, achieving important long-term benefits for teachers and students.
IMPROVEMENT OF THE ENVIRONMENT IN HOTEL AND LEISURE PREMISES

Enjoying a good meal in a clean and pure environment improves the customer’s experience and opinion of your business. This can be achieved thanks to our air purifiers being ideal for applications in the hospitality sector (bars, restaurants, hotels) or leisure sector (gyms, spas, etc.).

Sodeca air purifiers are quiet, which means so that your customers can focus and enjoy a good experience in their surroundings with clean and healthy air.

Odour removal is a critical function of air purifiers for restaurant applications where lingering food odours can be a problem for customers. Statistics show that one of the main reasons for not returning to a restaurant is the smell of food, so ensuring a clean, healthy and odour-free environment is a fundamental part of the success of your business.
PROTECTION AGAINST PARTICLES IN 4.0 INDUSTRIES

Maintaining an environment free of dust and solid particles is very important in modern industry and 4.0 industry.

These particles, whether from dust, mites, spores, mold or viruses, can greatly affect high technology products, since they can reduce their quality and significantly affect profitability.

The accumulation of particles in electrical cabinets, test instruments or operating sensors is one of the reasons for increased maintenance costs in industries, as well as machinery wear due to airborne dust particles, which can be removed decisively with our purifiers.

APPLICATIONS

— Data center
— Automotive
— Food
— Logistics
— Production facilities in general
HEALTHY ENVIRONMENT IN HOSPITALS AND MEDICAL CENTERS

Respiratory diseases worsen with age, and the need to breathe clean, healthy air becomes an essential priority. Medical centers, clinics, hospitals and nursing homes are naturally susceptible to having an environment full of pollutants, either because of the number of people who come to them daily or for the diseases that are treated there.

Viruses and bacteria can quickly contaminate users or healthcare personnel if the environment is not sufficiently purified using specific methods for the elimination of viruses, bacteria and other germs. The high costs of not having adequate ventilation with air purification systems can be very significant or even catastrophic. These applications require fit for purpose products such as air purifiers manufactured by Sodeca.

Air purifiers with HEPA filtration stages are designed to quickly and efficiently decrease the spread of infections in people at high risk, reducing contamination by airborne infections and viruses.

Staff and patients suffering from allergies and asthma will breathe clean, healthy air in their surroundings.

APPLICATIONS
— Pharmaceutical and Hospital
— Waiting rooms
— Hallways, common areas
— Rooms of at risk patients
— Medical testing areas