



CEEI & PURE

Within the framework of the cooperation that exists between the Institute and the Greek company with the brand name **YDROPSIKTIKI PAPATHANASIOU SA**, we have been informed of detailed data on both the air disinfection technology applied in the new series of **“PURE”** equipment and systems for effective air cleaning, and the documentation concerning their effectiveness conducted by reputable research institutes and laboratories in Greece.

After a comparative study done with similar devices of this kind by the scientific team of the Institute, we are pleased to certify, in addition to their elegant design, their technologically excellent construction and operation. The main advantage of the **“PURE”** devices is the possibility of use and adaptation in both, existing indoor spaces and new constructions.

Meeting these technical standards, the PURE devices are fully in line with the objectives of the Institute, as described below, and claim an important position in the growing market of air disinfecting devices both in Greece and in Europe. It is therefore our special pleasure to contribute as much as possible to the promotion of the **“PURE”** devices as they cover the needs of today in Greece and Europe, having also the requirements for their further development and use in the indoor spaces of the **smart cities** of the future.

One of the basic principles that govern the activities of the Institute concerns the proper management of the natural resources of the planet with a view to the adequacy of goods in the long run together with the sustainable development. Air along with water are two natural resources that are a prerequisite for the existence of life and their quality directly affects the quality of life. Thus, access to clean air and water is considered by the Institute as basic human right.

The quality of the air that is breathed today mainly by the inhabitants of urban centers does not have the desired quality and in many cases contains pollutants of various origins that pose a risk to health. In addition to industrial pollution and exhaust fumes, air quality is affected by biological pollution and microorganisms that can cause annoyances such as unpleasant smelling, allergic diseases and disease transmission.

The problem of air pollution that usually concerns the authorities and the public opinion, is mainly about air pollution from industry and exhaust fumes, as well as exposure to toxic substances in workplaces. Nowadays, the pandemic has brought to the surface as never before the search for solutions for effective air disinfection due to the high risk of the spread of the coronavirus through the air of indoor spaces, such as residences, schools, offices, workplaces, etc. where many people gather.



The need to find an easy and practical solution that will be effective and at the same time economically affordable for the improvement of the air quality of indoor spaces, is becoming more and more conscious by more and more people as well as by the authorities in charge. The design and production of portable devices for the efficient disinfection of the air, in various sizes that can be easily installed and adapted to the occasional needs, in the opinion of the Institute will be a necessary complement to the technical equipment of the interior spaces, in the near future.

It would be an advantage if the disinfecting technology used could clean the air of all the pollutants that can take the form of gases, particles, allergens and microorganisms. Regarding microorganisms, it is important that the cleaning technique is not limited only to their retention, for example through filters, but to their complete neutralization that can be obtained for example via **UVGI(Ultraviolet Germicidal Irradiation)**, without of course the production of ozone(O₃) by the device which may pose a health hazard.

In the first phase and mainly due to the criticality of the situation created by the rapid spread of the pandemic, the devices must be able to adapt to the conditions of today, while over time they can be integrated in the design of new constructions. For new constructions, the air disinfection equipment can be intergrated and complement the ventilation system, getting feed back from a continuous monitoring system of the air burden of pollutants, so that an ideal operation of the air disinfection system is constantly being achieved.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Drakopoulos Christos', with a large, stylized flourish at the end.

Drakopoulos Christos

President of the Board

Circular Economy & Eco Innovation Institute (CEEII)