



June 2020 | LUV2Innovate approved for funding

LUV2Innovate project "Innovative systems for the treatment of aqueous currents using photochemical processes with UV-C LEDs" consists in evaluating the impact of LED UV-C technology application on the cost-effectiveness ratio of photochemical AOPs, to determine their technical-economic feasibility compared to conventional alternatives.



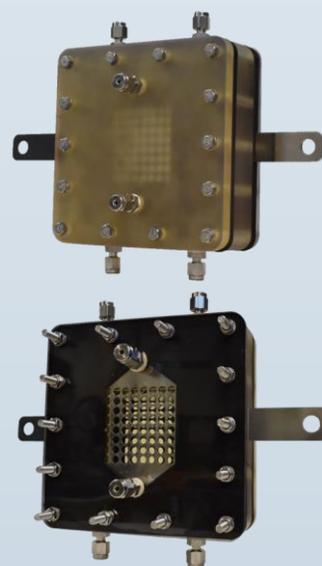
September 2020 | New UV-c LED photoreactor



Development of a new photochemical set-up for research purposes at laboratory scale. It includes a CSTR photoreactor Photolab LED275-4c with UV-C LED technology with adjustable radiant flux and refrigerated through forced air convection. The equipment also contains an electrical console to control the lamp and a dosing pump that allows to work in continuous.

October 2020 | Investment in 3D printing

APRIA Systems moved forward with an investment in 3D printing to enhance its technological capabilities, technical skills, and design and manufacturing processes. After an important updating work to acquire the required equipment, software, materials, and the specialized training of its engineers, the company is putting into practice these additive manufacturing techniques successfully. The resulted milestone allows the design and manufacture of functionalized components of superior quality, high complexity, and maximum degree of customization to the needs of our customers, as shown in the example of the photoelectrochemical cell in the image.





November 2020

Collimated beam LED photoreactor



Our know-how in photocatalytic process, allowed us to design a series of flexible collimated beam equipment with LED technology. The equipment has three LED collimated beam devices with independent control and different wavelength (UV-C, UV-B, UV-A, vis or IR light can be included).

Thus, allowing the user to performance three experiments in different conditions simultaneously. Additionally, its small size allows to locate it in small spaces in the laboratory and to transport in its case to field locations.

The intensity of radiation of each lamp – that provides an extremely uniform irradiation in a Petri Dish with a diameter up to 5 cm – can be regulated independently, offering an adjustment to the needs of the oxidation process under study. Moreover, the distance from the lamps to the reaction system can be modified for each experiment.



December 2020 | Participation in a workshop

We were invited to deliver a talk about our experience in the design and manufacture of photochemical reactors in a workshop organized by REWATERGY Marie Curie European Industrial Doctorate (EID) training network.



December 2020 | Certification

APRIA Systems obtained the Quality (ISO 9001), Environment (ISO 14001) and R&D (UNE 166002) certificates. These certifications verify that the company has implemented an integrated management system that complies with the UNE-EN ISO 9001: 2015, UNE-EN ISO 14001: 2015 and UNE 166002: 2014 standards, betting on a commitment to innovation and continuous improvement with a high level of quality in the products and services offered to our customers.



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