PHOTOCHEMICAL EQUIPMENT NEWSLETTER

Issue 2
January 2020

March 2019 | Funding from the I+C=+C program

LED4Future

SODERCAN funded our R&D project LED4Future: "New generation of UV-LED photocatalytic reactors for the elimination of persistent compounds in water", which aims to develop a new generation of photoreactors that allow higher efficiencies and efficacies in the elimination of emerging compounds.

June 2019 | 3rd ESSEAAOP

We participated at the 3rd European Summer School on Environmental Applications of Advanced Oxidation Processes (3rd ESSEAAOP), held at Alcoy, Spain. Our Chief Commercial Officer, Sara Domínguez, delivered the talk "Lamps and LED reactors", where several of our innovative photochemical equipment designs were showed.

June 2019 | ANQUE-ICCE-CIBIQ 2019

APRIA Systems attended as an exhibitor to the 3rd ANQUE-ICCE International Congress of Chemical Engineering (ANQUE-ICCE-CIBIQ 2019), in Santander, Spain. Our visitors were able to see one of our cutting-edge photochemical equipment, which was comprised of an immersion lamp with UV-a and vis LED.

June 2019 | EAAOP-6

Promotion of our advanced oxidation equipment at the 6th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP-6), held in Portorož-Portorose, Slovenia. The people who visited our booth had the chance to see one of our equipment working.

July 2018 | New generation of photoreactors

They have a mirror finish to increase the photonic flux. A tailored shell for protecting the user from the light and an aeration system –air injection chamber, evacuation ring, and blower– are also included. Moreover, we launched a new series of electric consoles with PLC for monitoring, control, and regulation of the temperature and power consumed by the lamp.

September 2019 | Photoelectrocatalytic reactors

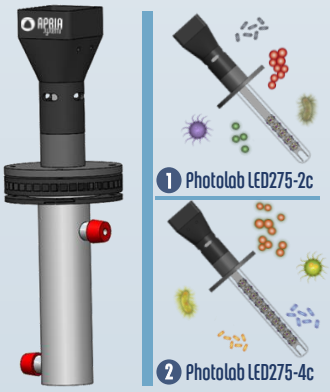
We designed two models of photoelectroreactors. The first model –**PElab LED365-16c//T-S10**– consists in a CSTR reactor, with UV-a and vis LED of adjustable intensity, a titanium anode and a stainless steel cathode. The second one –**PElab LED365-3p**– is comprised of a cell with UV-a LED of adjustable intensity, a nickel cathode and a stainless steel support for the anode.

December 2019 | Combination with a CPC reactor

APRIA Systems built a photo-Fenton pilot plant –**Photobench LED365-48/450-48a/CPC2**– that can work using either a compound parabolic concentrator (CPC) solar reactor or two LED annular photoreactors. The source of light of the photoreactors are comprised of UV-a and vis LED of adjustable intensity and refrigeration through forced air convection.

December 2019 | New UV-c LED photoreactors

We have built two novel UV-c LED photoreactors –**Photolab LED275-2c and Photolab LED275-4c**–, which result ideal for disinfection purposes. They include an immersion lamp with adjustable intensity through a PLC located in a console and refrigeration through forced air convection.



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