



Issue 1
January 2019

January 2018 | CIDIQ Conference



APRIA Systems showcased its novelties for training and research at the Congreso de Innovación Docente en Ingeniería Química (CIDIQ) in Cantabria, Spain. During the conference, the visitors to our booth had the opportunity to learn more about the capabilities of the photochemical reactors.

March 2018 | Lab scale annular LED photoreactor

Developed a new photocatalysis set-up for research purposes at laboratory scale. It includes an annular photoreactor **Photolab LED365-32a** with UV LED technology, with adjustable radiant flux and refrigerated through forced air convection. The plant also contains a membrane module for the recovery of the photocatalyst and an online measurement system of pH and O_2 .



July 2018 | Combination with electro-oxidation



APRIA Systems integrated photocatalysis and electrochemical oxidation in one equipment. The system consists in an annular photoreactor **Photolab LED365-16/450-16a**, with UV and vis LED of adjustable intensity; and an electro-oxidation cell **ELOXlab B-S210**, with BDD anode and stainless-steel cathode. Moreover, it includes continuous online measurement of pH, T, and O_2 .

August 2018 | New LED immersion lamps

APRIA Systems developed a new generation of LED immersion lamps. The design comprises a CSTR photoreactor where a specific LED lamp with UV and/or vis LED of adjustable intensity can be placed.





June 2018

SPEA10 International Conference



SPEA10

We promoted our cutting-edge advanced oxidation equipment at the 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA10) in Almería, Spain. The people who visited our booth had the chance to see one of our equipment with LED immersion lamp.



October 2018

AEDyR International Congress

APRIA Systems attended to the 12th International Congress AEDyR, held in Toledo, Spain. Our visitors were able to see one photochemical equipment with one of our innovative LED immersion lamps.

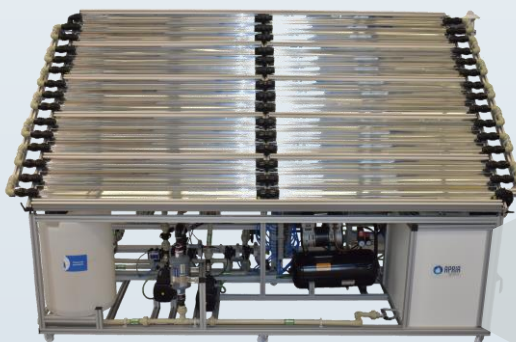


12th INTERNATIONAL CONGRESS AEDyR



December 2018

Combination with a CPC reactor



Our know-how in photocatalytic process, allowed us to build a pilot plant that can work 24/7 using a compound parabolic concentrator (CPC) solar reactor **Photobench CPC5** during the day and two LED photoreactors **Photobench LED365-32a** during the night. The CPC includes a radiometer, and the two annular photoreactors contain UV LED of adjustable intensity and refrigeration through forced air convection. The plant has automatized operation through PLC. Moreover, it comprises a membrane for the recovery of the photocatalyst, a continuous online measurement system of pH, T, O₂, and ORP, and temperature control by means of a heat exchanger.

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