

Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demeaumed.eu



172NMUV

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Description

The 172nmUV system initiates an Advanced Oxidation Process (AOP).

Hydroxyl-radicals are used to degrade complex persistent organic molecules present in the water as contamination.

Applicability

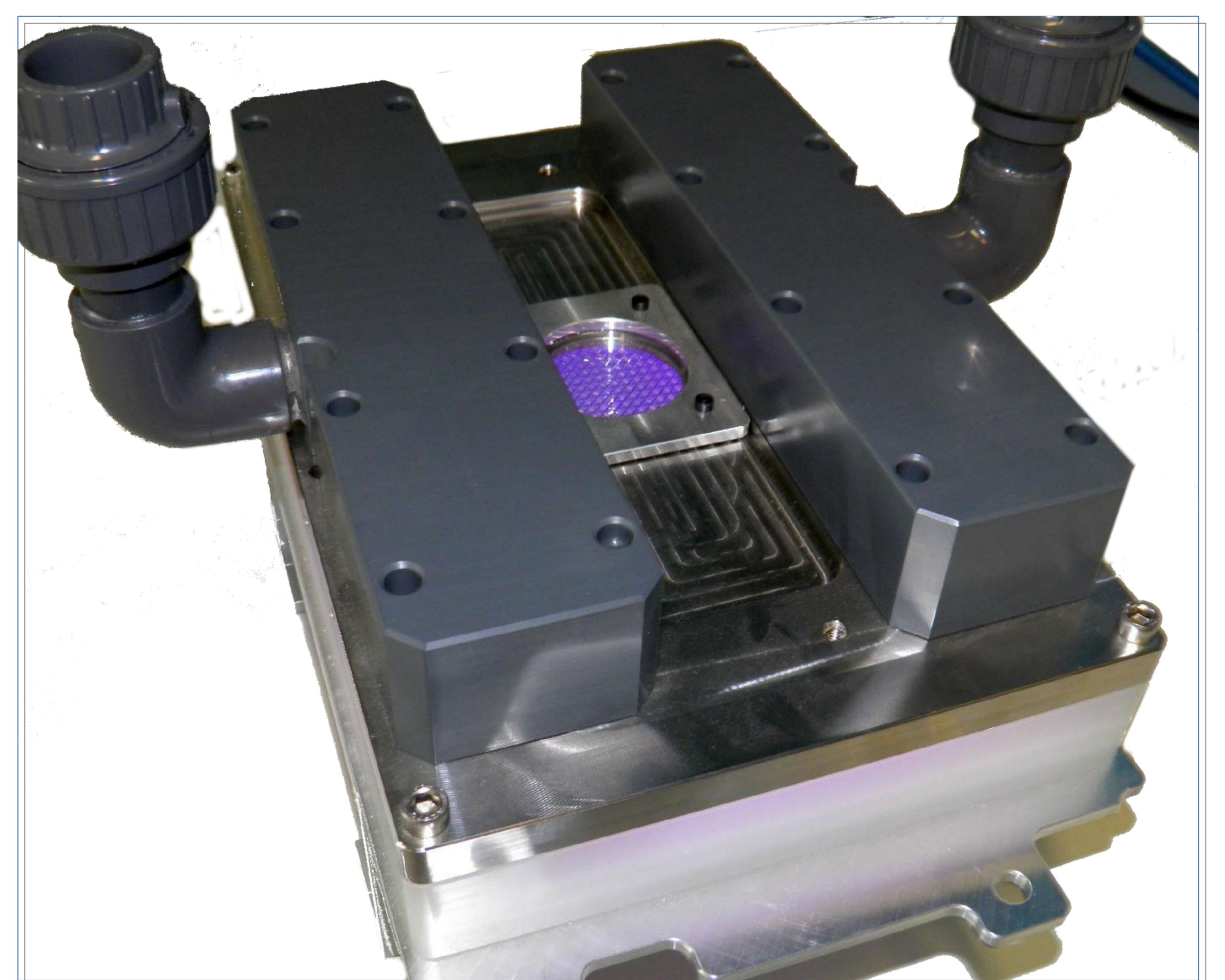
- Removal of cleaning agent residuals and pesticides
- Treatment of different pharmacological substances
- Targets persistent, non biodegradable organic pollutants

Results from demEAUmed demonstration

- VSS -90%
- TSS -90%
- TOC -76%
- Ibuprofen - 78%

Advantages

- Automatic operation
- Chemical free process (no need to add hydrogen peroxide, ozone or catalysts)
- Adjustable treatment capacity
- No gas exhaust, no noticeable smell
- Disinfection of the treated water as side-effect
- Independent from the salinity or hardness of the stream
- Independent of the UV-absorbance of the feed water



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"This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement N° 619116. The contents of this material are the sole responsibility of demEAUmed Consortium and can in no way be taken to reflect the views of the European Union."