

30.- Enviolet®, UV oxidation process

Title and name of product or technology	
Enviolet®	
Abstract	
Enviolet® UV oxidation process → Cold combustion in the water phase.	
Description including main features/advantages	
Enviolet® is an UV + H ₂ O ₂ oxidation process, an AOT which is optimized, by means of reactor design, lamp control (optimal UV performance, prolongation of lamp life) , automation (energy control, chemical control and performance control) and quality of the unit components (corrosion free). Possible to upscale from lab test to industrial unit, with small costs.	
Innovative aspects	
The reactor design with rotational flow, lamp control via identity card for each separate lamp. For some projects the unit can be used to treat different waste streams. Possibility to reuse the reaction heat and water, the latter is very pure and disinfected.	
Current and potential industrial users/domains of application	
Chemical industry, Pharmacy, surface treatment, textile, paper industry etc. Applications: COD reduction, elimination active substances, waste gas cleaning, Foto-Fenton applications, Cu and Ni recycling, detoxification of e.g. Cyanide (Cyanomat®), Complex elimination etc.	
Current state of development	
Commercially available in different industries.	

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