

33.- AguaCure electro-coagulation

Title and name of product or technology	
AguaCure EC - Electro-coagulation	
Abstract	
Electrochemical water treatment techniques primarily replace chemical treatment to remove contaminants from waste and raw water streams. The immediate benefit of electro-coagulation (EC) is the reduction of the chemical input into a waste stream, which has advantages not only in terms of reduced generation of waste sludge, but also simplification of the chemical composition of the waste and, therefore, further processing and disposal of the sludge. In addition the system reduces the requirement to store/handle chemicals onsite and reduces the potential impacts caused by chemical supply chain issues.	
Description including main features/advantages	
Induced precipitation of metal ions using low levels of electricity: <ul style="list-style-type: none"> • Chemical 'free' water treatment • Space saving • Waste reduction – reduced environmental impact and disposal cost • Energy efficient • Modular – Easy to expand with increased process requirements • Capital and operational cost saving 	
Innovative aspects	
System design resulting in: <ul style="list-style-type: none"> • Improved energy efficiency; • Continuous operation; • Reduction of maintenance requirements. 	
Current and potential industrial users/domains of application	
<ul style="list-style-type: none"> • Industrial Wastewater - Potentially any industrial waste water as a replacement for chemical coagulants and flocculants e.g. paper industry, dairy processing, leachate, metal finishing, fruit and vegetable processing, food/meat processing, textile/dyes • Municipal wastewater • Drinking water 	
Current state of development	
Large scale operational pilot plants	

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