



PRODUCT SHEET

Soneco®

DB Series

The combined use of ultrasound and electrolysis for water treatment



Physical, Chemical and Oxidative treatments from the simplicity of electricity



Its very simple

An economic and technically perfected alternative to liquid chemical dosing. Treatment reagents are precisely metered in to the process stream by varying an electric current at a controlled rate.



No chemicals required

There is no need to transport, store or dose hazardous liquid chemicals - no risk of spillage. Instead, 'reactive' reagents are generated from electrically charged plates; which also reduces sludge volumes and sludge disposal costs.



Reassuring to know

Intelligent and web-based software ensures efficient, effective and economic real-time treatment under changing load conditions. Delivered as a factory-built and tested solution offering reliability and low maintenance.

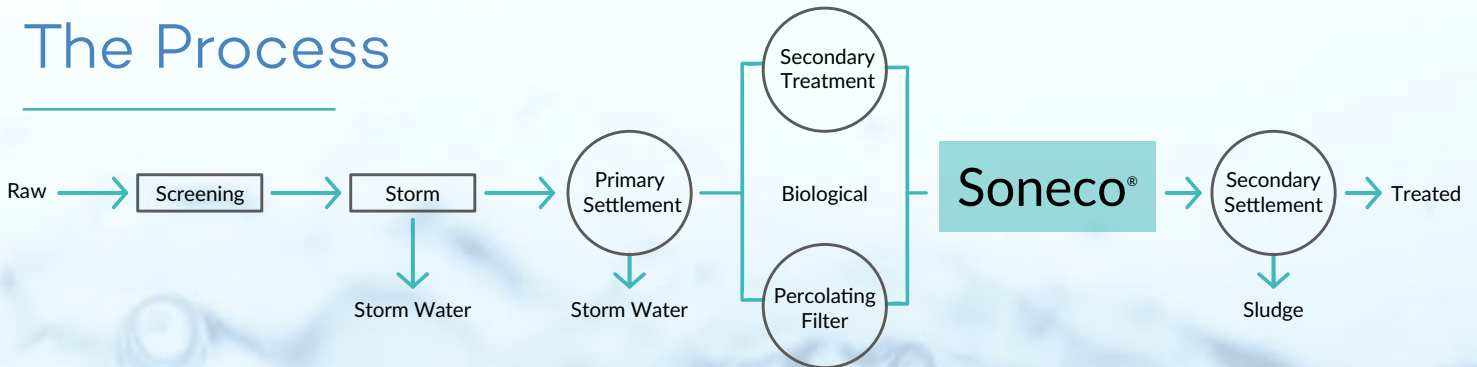


Let's look at the maths...

DESIGN SPECIFICATION	OPEX	TREATMENT REMOVAL	CARBON FOOTPRINT	PHYSICAL FOOTPRINT
<p>4x Soneco® DB4 units 16 electrodes</p>	<p>0.22 kWh/m³</p>	<p>>97% Total P</p>	<p>0.2 kgCO₂ m³hr⁻¹</p>	<p>1.52 m²/m³</p>
<p>Includes:</p> <ul style="list-style-type: none"> • Adaptive control and remote access • Multiple reactor installation configured to requirements 	<p>Power Supply: 415V 3P+N+E; 50 Hz 6 kVA PSU</p> <p>Electrode Life: Site and application dependent</p>	<p>Based On: Southern Water report for R&D: Soneco® (UKWIR, PRN: 639287) under the wider UKWIR 'Chemical Investigations Programme' (CIP2) Unique ID: National Environment Programme (NEP): 6SO000151</p>	<p>Based On:</p> <ul style="list-style-type: none"> • Manufacture of iron electrodes • Total operating power 	<p>Based On: Individual weights (850kg) and dimensions for reactor, power supply unit and transformer. 4x Soneco® DB4 treatment units</p>

Illustrative Data: Based on 21.6 m3hr-1 (PE 699) @ x3 DWF. Electrical Conductivity 900 µScm-1) Stoichiometric Ratio - Iron 5:1 Phosphorous

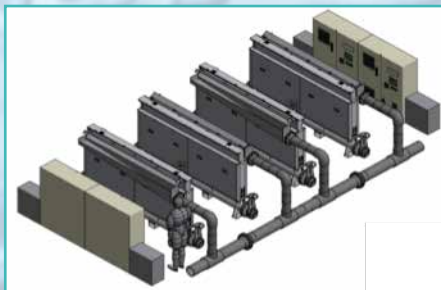
The Process



Retro-fit Installations



Typical Site Installation



Stand-alone Reactor & PSU

