

E-FLOC Series Electrocoagulation (EC) Reactors



Ecolotron, Inc.
The Electrocoagulation Specialists

www.Ecolotron.com

DATA SHEET

E-FLOC REACTOR

Ecolotron's E-FLOC Reactor utilizes an electro-motive force to sacrifice ions (Fe/Al/Ti) into solution while simultaneously releasing O₂ & H₂ gas via electrolysis. Dissolved contaminants react with the sacrificial ions and gases precipitating them from solution and then removed by flotation or other methods.

Colloidal particulates and emulsified oils may also be destabilized allowing them to coalesce and be removed.

Reduced Treatment Cost – utilizes low cost electrolysis to accomplish treatment, eliminating the need to dispose of hazardous by-products of chemical treatment.

Eliminates Need for Chemical Reagents - in most cases, or simply requires pH adjustment and poly-electrolytes to enhance liquid-solids separation, leading to additional savings.

Low Maintenance - designed to be user friendly minimizing both operator attention and costly maintenance downtime.

Dependable Results – predictable concentrations of metal in the effluent which are lower than those attainable with chemical precipitation treatment.

Sludge Minimization and Stabilization - EC generates a stable, easily dewatered sludge that routinely passes the USEPA TCLP for RCRA metals.

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E-FLOC SERIES SPECIFICATIONS

Model	EC300	EC470	EC630	EC800
Average Flow (GPM)	10	35	75	150
Retention Time (Sec)	20	20	20	20
Chambers	25	25	25	33
Plates (Fe, Al, Ti)	26	26	26	34
Volume/Chamber (Gal)	0.124	0.47	0.94	1.64
Total Volume (Gal)	3.1	11.75	23.5	54.12
Rectifier (Amps/Volts)	200/50	500/50	1000/50	2500/50