

## THINCELL® GT438 ELECTROCHEMICAL (EC) TREATMENT SYSTEM

*Modular and Easily Scalable for Large Volume Applications*



### THINCELL® TECHNOLOGY

Thincell is a unique, advanced, patented, electrochemical technology and radically different than Traditional electrocoagulation predecessors. Thincell eliminates passivation, solving Traditional electrocoagulation's reliability, HSE and OPEX challenges.

Thincell uses electrocoagulation principles but is unlike any treatment process available today. The Thincell innovation uses proprietary anodes and cathodes combined with a completely sacrificial bipolar multivalent electrode and custom-designed fluidized bed. The result is an economical, unique problem-solving process that reduces contaminants from liquid streams more effectively than any Traditional electrocoagulation method.

OPERATIONAL PARAMETERS	SAE	METRIC
Maximum Flow Rate – Fluid Dependent	250 gallons/minute	946 Liters/minute
Weight (lift)	950 lbs.	430 kg
Dimensions (D X H)	4'0" x 3'10"	1.22 m x 1.17 m
Inlet Size/Type	4" - ANSI 150# Flange	10.16 cm - ANSI 150# Flange
Outlet Size/Type	4" - ANSI 150# Flange	10.16 cm - ANSI 150# Flange
POWER		
Nominal Power Required	480 Volt AC, 60 Hz, 3 – Phase, 140 kVa	
OPTIONS - APPLICATION SPECIFIC		
Variety of Options Available	Drain Pans, Skids, Access, Lifting, Power, Safety, Instrumentation, and Automation	

### SIMPLE

### SMART

#### ONE TECHNOLOGY

*Treats a Wide Range of Organic and Inorganic Contaminants*

#### EASILY INTEGRATES INTO EXISTING TREATMENT SYSTEMS

*Improve Influent and Effluent Quality, Expand Plant Capacity, Isolate Troublesome Waste Streams*

#### COMPACT, MODULAR, SCALABLE

*Small to Large Process Volumes*

#### EFFICIENT

*Continuous Treatment, Minimal Downtime*

#### EFFECTIVE

*Continuously Meets Effluent Goals*

#### LOW OPERATING COSTS

*Minimal Maintenance, Low Power Requirements, No Electrode Passivation, Replaces or Significantly Reduce Chemical Treatment*

#### SACRIFICIAL MULTIVALENT BI - POLAR ELECTRODES

*Recycled waste material, A Waste to Treat a Waste*

#### ELIMINATES OR REDUCES

*Chemical Treatment and the Addition of Secondary Pollutants*

#### MINIMAL WASTE

*Sacrificial Electrodes Completely Dissolve, No Media Disposal*

#### REDUCES HSE RISKS

*Minimizes Personnel Handling, Waste Generation, and Disposal*

THINCELL® | PERFECTLY SCALABLE TO TREAT ANY FLOW RATE!



*Thincell Electrochemical Technology induces multi-treatment reactions in a single, fluidized bed, pressurized reaction chamber yielding unparalleled results.*

- Electrolytic Oxidation
- Emulsion Destabilization
- Coagulant Formation
- Coagulation and Flocculation
- Flotation

APPLICATIONS



MUNICIPAL  
WASTEWATER



REFINING



OIL & GAS



MINING



INDUSTRIAL



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