Model M500D

Cell divider allows treatment of anodically sensitive soutions.

A revolutionary three-dimensional porous, carbon cathode provides 500 times more plating area than conventional two-dimensional cells and recovers metals in elemental form.

RenoCell Model M500D

The RenoCell M500D is a new divided electrochemical cell based on revolutionary, patented technology. This technology allows the M500D to provide performance that consistently pushes metal ion concentrations down to the sub-ppm range. The cell is equally effective for effluent treatment and metal recovery and is designed to either replace or enhance existing systems.

The M500D offers unmatched features and benefits:

- Proven world-class technolgy and design.
- Effective metal ion treatment down to the sub-ppm range surpasses conventional electrodeposition methods by two to three orders of magnitude.
- Three to five times more cost-effective than electrodeposition systems currently in use.
- Greatly improved electrical efficiencies and life-cycle cost reduction.
- Regulatory compliance with virtual elimination of hazardous sludge by recovering elemental metals that are ready for reuse or sale.
- Easy metal removal, quick and easy cathode replacement, and low operating and maintenance costs.
- Highly reliable operation in harsh industrial environments.
- Compact size, capable of being wall mounted.
- Robust, modular design using industry-standard components.

RenoCell Model M500D
Technical Specifications

Standard Material	Polypropalyne

Dimensions

Length	645 mm (25.4 in)
Width	
Top lid	252 mm (10 in)
Housing body	200 mm (8 in)
Weight	12.7 kg (28 lb)

Hydraulic Connector

Inlet/outlet	25 mm ISO female (3/4 in FNPT)
Outlet adapter	1 in MNPT x 25 mm ISO Female (3/4 in FNPT)
Anolyte (inlet/outlet)	20 mm ISO female (1/2 in FNPT)

Electrical Connectors

Cathode	Two 8 mm posts (titanium, tantalum, or stainless steel)
Anode	Two 8 mm titanium posts

Anode	DSA

Cathode

Material	Carbon
2-D area	0.1 m2
Metal loading	3 kg to 5 kg (6 lb to 11 lb)

Divider	Nafion

Typical System Component Requirements

Power supply	
AC input	230 Vac, 50/60 Hz, single phase 110 Vac, 60 Hz, single phase
DC output	50 A, 0 - 12 Vdc
Control	Adjustable constant current and/or constant voltage
Catholyte pump	30 l/min to 90 l/min @ 0.5 to 0.7 bar (8 g/min to 24 g/min@ 8 to 10 psig)
Anolyte pump	4 l/min @ 0.3 bar (1 g/min @ 5 psig)

RenoCell®

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