

BDD MODULAR CASE

■ MC450

The MC450 is an industrial-grade electrochemical water treatment system featuring four high-performance BDD cells (Model: ME21824), combined with all essential components—including a DC rectifier, advanced E-control system, piping, water pump, and filtration system—housed in a heavy-duty metal enclosure.

With an expansive active BDD anode working area of 4.24 m², the MC450 is engineered not only for large-scale pilot testing but primarily for full-scale industrial water treatment applications, delivering superior efficiency and reliability.

This preassembled system is designed for rapid deployment:

Connect to a 3-phase power supply

Integrate inlet/outlet piping with water circulation tanks for batch processing

Advanced Automated Operation

Quick and Simplified Installation

Seamless System Integration

Portable Yet Industrial-Strength

The integrated E-control system enables fully automated daily operation. Simply configure:

Batch Treatment Working time

DC Value (Ampere)

Direct Voltage

Once set, the system operates autonomously, ensuring consistent performance with minimal manual intervention.

The MC350 can be retrofitted into existing water treatment solution, providing a powerful upgrade to meet stringent emission standards and enhanced processing demands.

Despite its high capacity, the unit remains mobile and versatile, making it ideal for both permanent installations and rental service applications across diverse industrial settings.



- Up to 45000 cm² of sealed BDD electrode active working area
- Only electricity is needed for electro-oxidation process;
- Treatment performance available in few hours;
- Degradation in room temperature and pressure;
- Suitable for pilot and project scale of use;

- Small area for the equipment, and it is movable;
- Can be easily transported by land or sea due to its modular construction;
- It is modular, fully automatic plug & play;
- Ensure stable effluent quality by adjustment of input voltage and current;
- Can be combined with other process technologies to meet strict compliance limits;

Specifications

Name	Anode	Cathode	Sealed Active Area	Designed Circular Flow	Input Voltage	Power Output	Current Density	Main Structure	Overall Dimension	Net Weight
MC450	BDD Electrode (Silicon Substrate)	Titanium Electrode	42400cm ²	20 m ³ /h	AC 380V/ 50Hz	DC 400A/80V	0-55 mA/cm ²	BDD Electrolyzer	2292*1764*2150 mm	1200kg
	Dimension: 240*130*3mm	Dimension: 354*150*1.5mm						Pipe & Power Supply		
	Quantity: 72pcs	Quantity: 80pcs						Filtration & Water Pump		
								Temperature & Pressure Protector		

Notes: User needs to prepare related components for operation, including but not limited to suitable water tank, power supply, pipes, cooling system.

