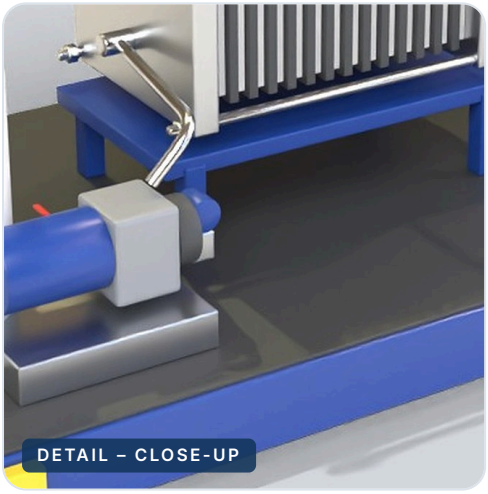
PRODUCT DATASHEET

Capacitive Deionisation (CDI) System





DETAIL – CLOSE-UP

OVERVIEW

Capacitive Deionisation (CDI) Systems represent an advanced electrochemical water desalination platform engineered for laboratory research, process development, and small-scale desalination applications. This innovative technology uses porous carbon electrodes under an applied electric field to adsorb and selectively remove dissolved ions from water, offering a fundamentally different and energy-efficient alternative to traditional desalination methods.

APPLICATIONS

Brackish and saline water desalination research and optimisation; CDI electrode material development and testing programmes; ion-selective membrane characterisation and performance studies.

KEY ADVANTAGES

- Modular CDI cell design allowing flexible system configuration and scale-up capability
- Precision DC power supply with precise voltage/current control and monitoring
- Integrated real-time conductivity monitoring for process control and performance tracking
- Peristaltic pump system enabling controlled and adjustable flow rates
- Real-time desalination performance metrics and efficiency tracking

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