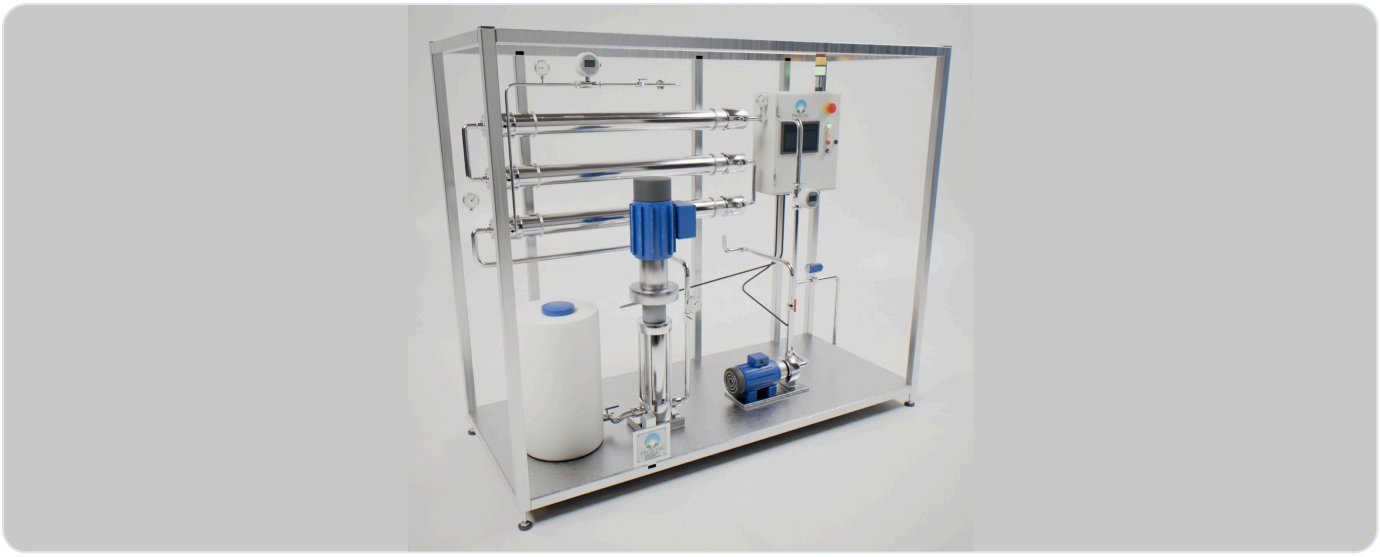
PRODUCT DATASHEET

Closed Circuit Reverse Osmosis (CCRO) Testing System





DETAIL – CLOSE-UP

OVERVIEW

The Tech Inc. Closed Circuit Reverse Osmosis (CCRO) Testing System is an advanced RO testing platform engineered for membrane research, water treatment, and industrial applications. The CCRO Testing System implements closed circuit reverse osmosis technology, where concentrate is continuously recycled back to the feed side, achieving significantly higher recovery rates compared to conventional single-pass RO.

APPLICATIONS

High-recovery desalination research; CCRO process optimisation and energy efficiency studies; brine minimisation and zero liquid discharge (ZLD) research; membrane fouling studies under high-recovery conditions.

KEY ADVANTAGES

- Closed circuit operation with concentrate recirculation for higher recovery rates (up to 95%+)
- Reduced energy consumption compared to conventional RO configurations
- Programmable batch and semi-batch operation modes
- High-pressure stainless steel construction rated for RO operating pressures
- Integrated digital data acquisition (DAQ) system with real-time monitoring of pressure, flow, conductivity, temperature, TDS, and pH

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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