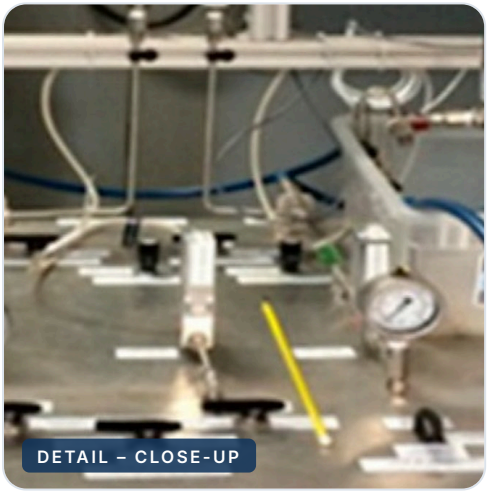
PRODUCT DATASHEET

Pressure Retarded Osmosis (PRO) System





DETAIL – CLOSE-UP

OVERVIEW

The Tech Inc. Pressure Retarded Osmosis (PRO) System is a specialised osmotic energy and membrane testing platform engineered for PRO research, osmotic power generation studies, and membrane characterisation. The Pressure Retarded Osmosis (PRO) System is a specialised membrane testing platform designed for osmotic energy harvesting research and PRO membrane evaluation.

APPLICATIONS

Osmotic energy harvesting and blue energy research; PRO membrane power density characterisation; draw solution optimisation for maximum osmotic driving force.

KEY ADVANTAGES

- Dual-chamber PRO cell design with independent feed and draw solution circuits
- Precision hydraulic pressure control on the draw solution side for accurate power density measurement
- High-precision flow meters and pressure transducers on both feed and draw sides
- Integrated conductivity monitoring for reverse salt flux quantification
- Temperature control system for evaluating PRO performance at various conditions

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

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