

Fuel Cell & Electrolyser Hardware

Research Cells and Stacks



*250cm² PEM
Fuel Cell Hardware*



*25cm² or 50cm² PEM
Electrolysis Hardware*



*50cm² PEM
Fuel Cell Hardware*

- Single cell and short stack configurations available
- Special features suited to rapid screening of samples
- Pneumatic piston compression for even pressure distribution
- Electric or liquid heating for thermal management
- Quick release tie-rods available (no tools required)
- Optional compatibility with 180° HT-PEM and DMFC
- Custom test fixture designs available

Features

PEM Fuel Cell Research Hardware

These cells are designed primarily for researchers who are providing their own MEAs, but they can be provided with MEAs as well. They can be offered as stand-alone cells, or as integrated equipment with our turn-key testing stations.

- Ideally suited for sample screening, R&D and educational purposes.
- Proven materials compatibility with PEM fuel cells (gold-plated copper, fuel cell grade graphite, stainless steel and silicone).
- Sealing gaskets are simple and reliable and can accommodate user-supplied MEAs.
- No tools required for MEA changes.
- Custom stacks available up to 10+ cells.



Custom Cells for Fuel Cell and Electrolyser Testing

Greenlight offers custom cell designs to meet specific requirements for membrane geometry, flow field patterns, thermal management techniques and specific compression needs.

- Fluids are in contact with materials that have proven compatibility with fuel cells.
- Liquid or electric thermal management for even temperature control.
- Sealing gaskets are simple and reliable to accommodate user-supplied MEA's.
- Pneumatic piston or spring compression available to accurately maintain cell compression.
- Single cell or short stack configurations available.



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