

Fuel Cell Fixture

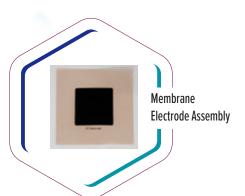
Our versatile fuel cell is perfect for PEM, AEM and DMFC research

Interchangeable end plates for dual use option—saving money and giving you more options

The Cell Fixture features

- Fuel Cell Test Fixture is suitable for use with 5 and 25 cm² area cells
- Configuration for Liquid Fuels available
- All wetted components of the liquid side are non-metallic and highly chemical resistant
- Gold-plated copper current collectors (2)
- Anodized aluminum end plates (2) with reactant input/output ports, stainless steel Swagelok® compression fittings, cartridge heaters and thermocouple well
- 60 cm heavy-gauge copper conductor load cables
- Gaskets 51, 152 and 254 μm (0.002, 0.006 and 0.01 inch)
- Templates for preparation of gaskets
- Gaskets, gasket templates and additional hardware such as bolts, washers, fittings and o-rings
- Compatible with BekkTech in-plane conductivity cell (BT - 112)
- Operating temperature up to 200 °C
- 115 V or 230 V cell heaters available



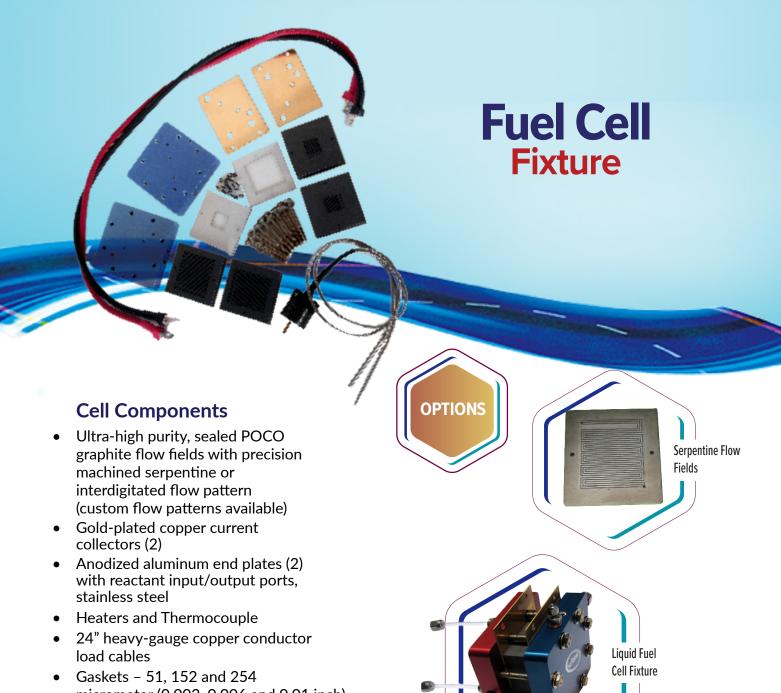




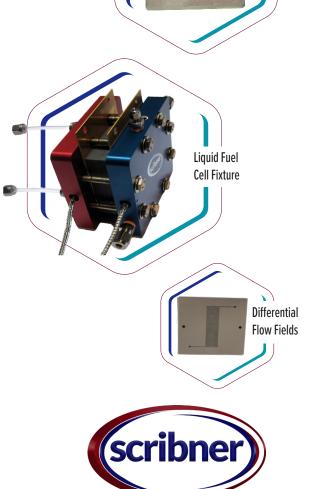




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- micrometer (0.002, 0.006 and 0.01 inch)
- Templates for preparation of gaskets
- Gaskets, gasket templates and additional hardware such as bolts, washers, fittings and o-rings





PEM & AEM Electrolysis Cell Fixture

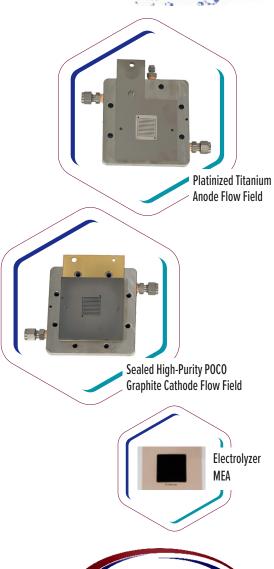
Compatible with the DI & KOH Feedstock



- Available as a Dual Area Electrolyzer fixture-suitable for use with 5 and 25 cm² active areas
- Stainless Steel (316L) end-plates, designed for chemical solutions incompatible with aluminum
- Platinized Titanium flow field media for Anode (O₂) electrode
- Sealed high-purity POCO graphite flow field and Carbon Diffusion Media for Cathode (H₂) electrode
- Flow Fields available in various channel patterns to support research needs
- End-plate contains precision machined wells for cartridge cell heaters for evenly distributed and precise heating
- Cartridge heaters are shielded and electrically grounded for additional safety
- End-plates are electrically isolated from the cell
- Operating temperature up to 200 °C

Additional Components

- Cartridge cell heaters with braided stainless steel armored cable for superior durability (115 V or 230 V)
- Gasket, Gasket Templates and Thermocouple included
- Gold-plated copper current collectors
- End plates with reactant input/output ports, stainless steel Swagelok® compression fittings, cartridge heaters and thermocouple well
- Heavy gauge copper conductor load cables 60 cm (24 in.) in length



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High-Pressure Electrolysis Fixture

Designed For PEM & AEM Operation

FEATURES

Operating Parameters:

- Rated for 50 bar (735 psi) operating pressure
- Green anodized 6061 aluminum end-plates, for increased visibility in laboratory settings
- 25 mm thick Grade 2 titanium with >99% purity Platinized coating (other materials available upon request)
- Fully platinized electrical connections for reduced resistance
- Flow field contains precision machined wells and Swagelok® fitting for thermocouple installation
- Flow fields available in various channel patterns to support research needs
- End-plate contains precision machined wells for cartridge cell heaters for evenly distributed and precise heating
- Cartridge heaters are shielded and electrically grounded for additional safety
- End-plates are electrically isolated from the cell
- Operating temperature up to 200 °C

Additional Components:

- 200 W cartridge cell heaters with braided stainless steel armored cable for superior durability (115 V or 230 V)
- Gasket, gasket templates and thermocouple included
- Flow Fields with reactant input/output ports, stainless steel Swagelok® SC-10 compression fittings (SC-11 Fittings available upon request)
- 75 cm heavy gauge copper conductor load cables





Cell fixture is compatible with the Water Electrolysis Test Stations

The Cell Fixture features

- Available as a Dual Area Electrolyzer fixture-suitable for use with 5 and 25 cm² active area
- Anodized Aluminum end plates
- Platinized Titanium flow field and Porous Media for Positive (O₂) electrode
- Sealed high-purity POCO graphite flow field and Carbon Diffusion Media for Negative (H₂) electrode
- Cell heaters available for 115 V or 230 V operation
- Operating temperature up to 200 °C

Components

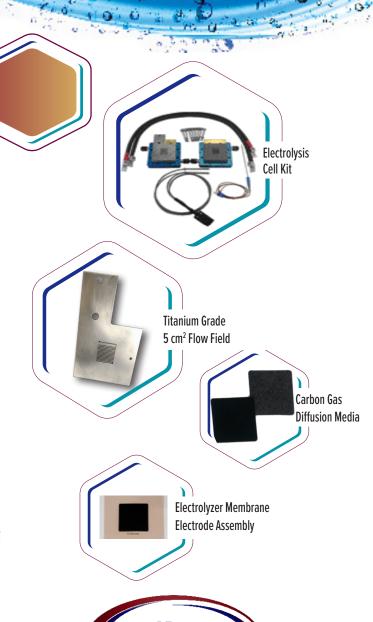
- Flow fields with precision machined serpentine or interdigitated flow pattern (custom flow patterns available)
- Gold-plated copper current collectors
- End plates with reactant input/output ports, stainless steel Swagelok® compression fittings, cartridge heaters and thermocouple well
- 60 cm (24 in.) heavy-gauge copper conductor load cables
- Gaskets, gasket templates and additional hardware such as bolts, washers, fittings and o-rings

Options

Choose Red or Blue End-Plates - Both use the Pt-Ti flow field on the Positive Side and Graphite flow field on the Negative Side. The difference is in the End-Plates:

- Blue End-Plates are suitable for DI water
- Red End-Plates can be used with either DI water or KOH solutions

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Electrolysis Cell Fixture

Cell fixture designed especially for the Water Electrolysis Test Stations



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Redox Flow Cell Test Fixture

Scribner's Redox Flow Cell Test Fixture is specifically designed for use with our Redox Flow Cell Test System

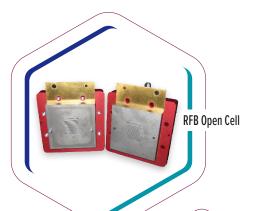
We offer multiple assembly configurations to allow for various flow configurations, electrode type and thickness.

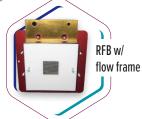
The RFB Test Fixture features

- Cell fixture specifically designed for use with the Scribner Redox Flow Cell Test System
- Cell area from 5 to 25 cm²
- All non-metallic flow paths made with noncorrosive, chemically resistant plastics only
- 115 V or 230 V cell heaters
- Operating temperature up to 120° C
- SGL Carbon SIGRACELL® graphite felt
- PTFE (Teflon®) flow frames
- Ultra-high purity, sealed POCO graphite flow fields with precision machined serpentine or interdigitated flow pattern (custom flow patterns available)
- Custom flow patterns available
- Gold-plated copper current collectors
- Anodized aluminum end plates with reactant input/output ports, Swagelok fittings, cartridge heaters & thermocouple well
- Gaskets, gasket templates and additional hardware such as bolts, washers, fittings and o-rings











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Redox Flow Cell Fixture

SCRIBNER ASSOCIATES REDOX FLOW CELL / LIQUID FUEL CELL FIXTURE



