

830 STACK FUEL CELL TEST SYSTEM



Fully Automated, Turnkey, Test System for
Long Term Durability and Performance
Characterization of Stack Fuel Cells

**Modular & Scalable Architecture 2kW – 10kW+
Large Format Single Cell or Full Stack**

Concept System Shown, Final Appearance May Vary



SYSTEM SPECS

DIAGNOSTIC TESTING

Designed For Long Term Unattended Operation & Performance Characterization
Load with P/GStat Functions, Cell Voltage Monitor, and Optional Scribner Stack EIS
Optional Pulsenics Probe for Continuous Stack & Individual Cell EIS
Full Software Control of Process Gasses, System Parameters, and External Sensors

BALANCE OF PLANT

Programable High Power DC Electronic Load Family – Multiple I / V Configurations
Configurable Humidifiers Supporting 1,000 SLPM and $\leq \pm 2^\circ\text{C}$ Dew Point Accuracy
with Optional 10 Bar Back Pressure
Automatic By-Pass, Automatic Drain & Fill, N2 Purge, Swagelok® Fittings & 316SS
892 Data Acquisition Unit, 890 Process Controller, Multi-Gas, & Back Pressure
Control
Optional Membrane Humidification Simulating Standalone Cell Operation

INTUITIVE CONTROLS



FuelCell5®



ZView®

FuelCell5® Fully Integrated Software For User Friendly
Control, Experimental Sequencing & Analysis

ZView® World's Leading Impedance Analysis &
Equivalent Circuit Modeling



SCRIBNER STACK FIXTURES

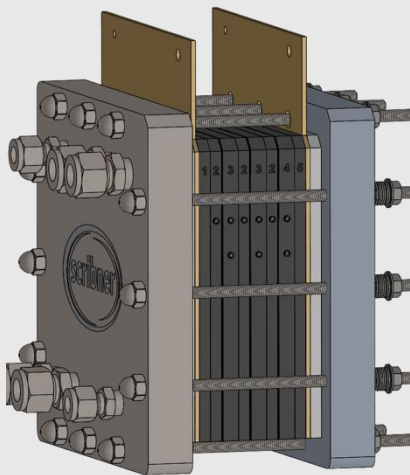
GENERAL CONSTRUCTION

Built From Mature Single Cell

Active Area: 100cm²

Stack Size: 3-10+ cells with internal alignment

Material: Pyro-sealed POCO Graphite Flow Fields, Stainless Steel & Aluminum End Plates



ADVANCED FEATURES

Thoughtful Optimizations

Cooling: Liquid cooling channels between each cell

Flow Path: Quad Serpentine with Parallel Flow between reactant and oxidant flow fields

Flow Length: Z type manifold flow encourages even gas distribution over cells

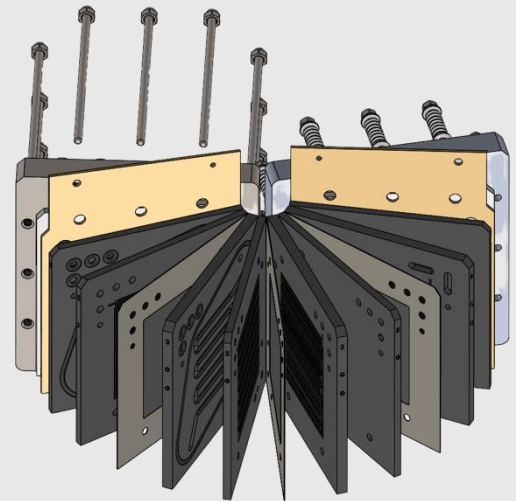
MEASUREMENT

Convenient Connections

Voltage: Pin (1/16") connection to each flow field

Temperature: Pin (1/16") connection to each flow field

Current Collection: Gold coated copper for minimal ohmic resistance



COME TALK STACK AT OUR WEBINAR

WANT TO LEARN MORE?

Scan the QR code below to register for our upcoming product launch webinar.



WHAT TO EXPECT?

Join our product launch webinar for a live Q&A and so much more.

Hear from Scribner & Pulsenics about the value of integrated testing and solutions

Ask questions to our experts about scaling hydrogen R&D – moving from lab to industrial scale

Explore advanced diagnostics, long-term testing, and a discussion about future projects