



PEM STACK AND FUEL CELL SYSTEM TESTING

- Up to 50 kW power range
- For simulation of all requirements for stationary or mobile applications
- Extended safety features including LEL hydrogen detector and cabin ventilation
- Fully automated for safe, reliable and unattended operation
- Contact humidification system for up to 90°C dew point and up to 250 °C gas temperature (option)
- Programmable automated purge and dead-end function
- Maximum performance and safety via integrated PLC

HORIBAFuelCon

Evaluator S25-LT



GENERAL FACTS

Standard anode flow range [Nl/min]	8 to 800
Standard cathode flow range [Nl/min]	20 to 2,000
Footprint L x W x H, [meter] (inches)	6.0 x 1.6 x 2.4 (236" x 63" x 95")
Standard gas temperature	130 °C (194 °F) or 250 °C (482 °F)
Humidity range [HR]	Precise, dynamic-response humidification, dry (by-pass) to 100 % @ 90 °C (194 °F)
Back pressure control range [bara]	1.1 to 5.0
Electronic load	Up to 1,000 A / 600 V / 50 kW
CVM (Cell Voltage Monitoring)	CVMpro-G4 MCM-IntelliProbe-U10 (SMART Testsolutions) -1 to 5 V or -3 to 3 V; accuracy ±0,1 %; up to 400 channels
Thermal management	Water-based liquid loop up to 130 °C (194 °F) or oil-based liquid loop up to 230 °C (446 °F), max 5.0 bara system pressure
Safety features	PLC controlled 3-level alarming system, programmable nitrogen purge, emergency stop, hydrogen LEL detector
Data logging	SQL data base
Operational modes	Various dead-end and purging modes

The Evaluator S25-LT is tailored to the needs of complex stack and system testing and evaluation. The design allows endurance testing and accelerated life time simulation which can be optimized for the typical needs of stationary or mobile applications. Various safety features include a closed test cabin and an integrated ventilation system with LEL hydrogen detectors to safeguard the operator and your facility. Mechanical and software interfaces are available to integrate environmental chambers or shaker platforms into test programs.

The S25-LT is perfectly designed for the dynamic simulation of mobile applications in order to study fuel cell system behavior and optimize system design.

Please feel free to download the latest information available at www.horiba-fuelcon.com. If you have any questions, please do not hesitate to contact us. We will be happy to support you and discuss your testing requirements!

HORIBA FuelCon reserves the right to make changes at any time without notice.

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OPTIONS

Reformate simulation
TrueData-EIS (impedance analysis)
Environmental chamber connection
Shaker and tilt unit operation

SAFETY

CE conformity marking (according to)
EMC directive 2014/30/EC
Low voltage directive 2014/35/EC
ATEX directive 2014/34/EC
General product safety directive 2001/95/EC
Machinery directive 2006/42/EC
Pressure equipment directive 2014/68/EC

Risk assessment
DIN EN ISO 13849
DIN EN ISO 12100