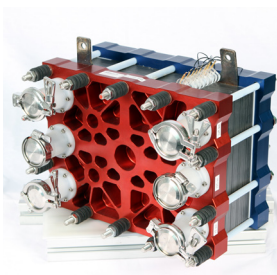


EVALUATOR EOL

Quality Assurance Testing for Stacks



- Variable power range available (Standard 150+ kW)
- Performance and quality control
- Pass-fail testing
- Initial conditioning of membranes and electrodes
- Fast quality assurance of each cell within the stack
- Simplified process engineering for high cost efficiency
- Automated leakage testing
- Automated test programs (Scripts)



EMISSIONS



ELECTRIFICATION



CAV



DATA

EVALUATOR EOL

The Evaluator EOL End-of-Line system of the Evaluator series is tailored to the needs of complex production processes for fuel cell single cells, full stacks or systems. Through a sophisticated process engineering the End-of-Line system can be adjusted to the operation point of the cell which reduces the costs.

End-of-Line test stations are perfectly designed to perform fast quality assurance testing of all cells or the initial conditioning period of MEAs.

Trolley systems provide easy handling of any transport of stacks including self-coupling or quick connection systems for the trolleys.

The cost-efficient design can contain conveyer belts with automated docking and undocking of fuel cell systems. To reduce testing times of stacks at the EOL station an automated external coolant filling and draining, or leakage testing station can be provided.

As option, the system can be equipped with industrial PC or operator panel. The station is controlled via production software for simplified start and stop of procedures.

Furthermore, the EOL system allows automated display of pass / fail criteria and read / write access to customer production database. High safety standards with a fail-safe PLC control ensures maximum performance under safe conditions.

GENERAL FACTS	
ELECTRONIC LOAD	1,000 A / 800 V
CVM (CELL VOLTAGE MONITORING)	Up to 1,000 voltage channels
BACK PRESSURE CONTROL RANGE [BARa]	1.1 to 5.0
HUMIDITY	Saturator / scrubber type or direct injection
SAFETY FEATURES	Fail safe PLC control; PLC controlled 3-level alarming system; emergency stop; hydrogen LEL sensor; programmable nitrogen purge
DATA LOGGING	SQL data base

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

OPTIONS

Impedance analyzer
Barcode or DMC scanner
Cooling water filling and draining station
MEA saturation station
Trolley system for stack transport and handling
Operator panel with simplified production software
Devices for quick-lock coupling



HORIBA FuelCon GmbH
Otto-von-Guericke-Allee 20
39179 Magdeburg-Barleben
Germany

T +49 39203 964 400
F +49 39203 964 409
sales@horiba-fuelcon.com

horiba-fuelcon.com



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