



PEMFC testing station Héra series





Purpose

Héra series is PEMFC testing station designed to meet power range from 10 kW to 30 kW. It is suitable for testing of fuel cell stack at defined working condition.

Fully automated and unattended operation

All functions of testing station are controlled by computer and it is ready for remote control: especially all valves, heaters, mass flow control, pressure control, humidity control. System is fully automated enables unattended operation.

Capabilities

Custom designed lines are provided. Anode and cathode lines are humidified by advanced system. Provided with multivoltage monitor, multitemperature monitor for fuel cell stack analyses, cooling system 10 - 30 kW / 95°C, EL load and/or potentiostat.

Safety

System contains safety procedures as nitrogen purge and emergency shut down. Working range as voltage and current of the cell, all temperature sensors are compared with safety limits that can be set. There are two levels of limits. Hydrogen leak sensor is installed.

Héra series	
Power range	10 kW – 30 kW
Flow rates	Anode: 225-675 slpm, Cathode: to 750-2,250 slpm
Gas humidification	Dew point up to 90°C, dry gas by-pass
Operating temperature	Max 120°C / 190°C; 4 Bar
Cooling system	Cooling system up to 10-30 kW 95°C/200°C
Loads	Different variants meet the power range.
EIS	Impedance spectroscopy
Potentiostat	On request.
Safety	Automatic nitrogen purge, voltage and current limits, hydrogen detector, safety interlocks, blackout protection.
Dimensions	1500x1800x1800 mm
Cell or Stack connectivity	
Compressed air	Up to 15 Bar with manual safety regulator.
Voltage and TC senses	Ready for 4 points measurement for single cell or multichannel voltage and temperature measurement for stack

Detailed specification and price quotation on request.



radbee.eu

Kokořov 8, 335 01 Žinkovy, Czech Rep.

info@radbee.eu

