

G400 • G500 • G600
G700 • G900 • G1000

PEM FUEL CELL

Stack Test Stations



- Emerald™ control software for fully automated, unattended operation
- Comprehensive safety features
- Expandable with additional I/O and diagnostic tools
- Multiple humidification technologies available
- Resistive or regenerative loads available
- Available CE certificate of conformity
- Available with optional integrated environmental chambers

Specifications



	G400	G500	G600	G700	G900	G1000
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APPROXIMATE POWER RANGE	0.5 - 6 kW	2 - 12 kW	5 - 50 kW	10 - 100 kW	25 - 200 kW	50 - 300 kW
GAS FLOWS	100:1 turndown MFC's			custom ranges available		
Standard anode flow range	1.5 - 150 nlpm	1.25 - 250 nlpm; available to 750 nlpm	20 - 2,000 nlpm	50 - 2,200 nlpm	80 - 4,000 nlpm	100 - 5,000 nlpm
Standard cathode flow range	4 - 400 nlpm	3.75 - 750 nlpm; available to 1,200 nlpm	35 - 3,500 nlpm	65 - 6,500 nlpm	100 - 10,000 nlpm	300 - 15,000 nlpm
GAS MIXING Anode and Cathode	automated reformate simulation and gas mixing available					
GAS HUMIDIFICATION TECHNOLOGY	numerous humidification technologies available including Rapid Response™					
Dew point control	up to 90°C † (194°F)†					
Gas temperature	up to 110°C † (230°F)†					
Humidifier by-pass	optional; with automatic control					
LIQUID STACK COOLING	up to 90°C (194°F)†					
BACK PRESSURE CONTROL	0.05 - 3 barg† (45psig)†					
LOAD BANK	water cooled, up to 6kW		water cooled, up to 20kW	water cooled, or regenerative available		regenerative
Maximum load, current, voltage						
CELL VOLTAGE MONITORING	up to 1000 channels					
Standard number of channels						
DIMENSIONS	1582 x 1367 x 1827 mm (62 x 54 x 72 in)		2819 x 1168 x 22 61 mm (111 x 46 x 89 in)		3500 x 1600 x 2300 mm (137 x 63 x 90 in)	
Not including optional load banks						

† Dependent on actual operating conditions - higher temperature, pressure options available.

Emerald™ : Our flexible control software features a user-friendly interface, and is enhanced with our proprietary automation capability. The flexible **Emerald™** scripting language allows complex script assembly within minutes for all types of users; from novices to experts.



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