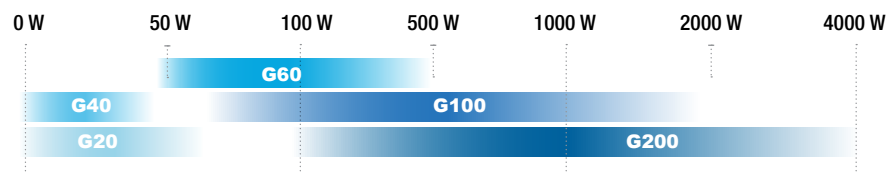


G20 • G40 • G60
G100 • G200

PEM FUEL CELL

Single Cell and Component Test Stations



- Emerald™ control software for fully automated, unattended operation
- Comprehensive, user-adjustable safety features
- Expandable with additional I/O and diagnostic tools
- Multiple humidification technologies available, including optional Rapid Response™
- Accurate reformate gas simulation (automated blending)
- Available CE certificate of conformity
- Available with optional environmental chambers, high temperature and DMFC operation

Specifications



	G20	G40	G60	G100	G200
APPROXIMATE POWER RANGE	1 - 100 W	5 - 50 W	10 - 500 W	40 - 2000 W	80 - 4000 W
GAS FLOWS	100:1 turndown MFC's				
Standard anode flow range	0.04 - 4 nlpm	0.015 - 1.5 nlpm	0.1 - 10 nlpm	0.25 - 25 nlpm	0.8 - 80 nlpm
Standard cathode flow range	0.1 - 10 nlpm	0.025 - 2.5 nlpm	0.2 - 20 nlpm	0.8 - 80 nlpm	2 - 200 nlpm
GAS HUMIDIFICATION TECHNOLOGY	gas immersion with sparger	contact humidifier		contact humidifier	
Dew point control	up to 90°C † (194°F)†				
Gas temperature	up to 110°C † (230°F)†				
Dry gas by-pass	optional; with automatic control				
ELECTRICAL END PLATE HEATER CONTROL	individual anode & cathode PID heater controls	included			
LIQUID CELL COOLING	-	high temperature operation optional			
CELL PRESSURE CONTROL	automated				
Back pressure control	Up to 300kPa† (45psi)† higher pressures available				
LOAD BANK Maximum load, current, voltage	120A, 5V	80A, 50V	125 - 1000A, 1000V	125 - 1000A, 1000V	500 - 1000A, 50V
CELL VOLTAGE MONITORING Standard number of channels	1 (average accuracy +/- 1mV)	up to 1000 channels (average accuracy +/- 1mV)			
DIMENSIONS	635 x 546 x 788 mm (25 x 21.5 x 31 in) Benchtop design	890 x 710 x 1855 mm (32 x 28 x 73 in)		1375 x 1132 x 1810 mm (54 x 45 x 72 in)	

† 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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