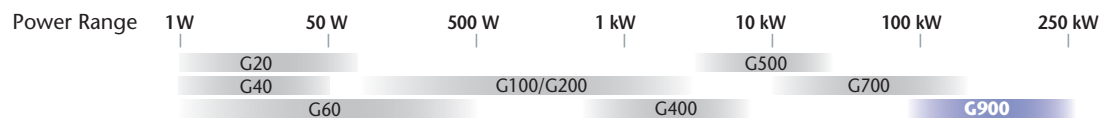


# FCATS™ G900

## HIGH POWER FUEL CELL Stack Test Station



- » Approx power range: 75 - 250 kW
- » 800+ channel high-accuracy cell voltage monitoring (CVM)
- » HyWARE II™ control software
- » Intuitive automation language allowing 24/7 dynamic operation
- » Data logging of CVM and all process parameters
- » Easily expandable for additional I/O and diagnostic tools
- » Separate coolant module with flow rate up to 600lpm
- » Multiple humidification technologies available
- » Regenerative (back to grid) load bank; 900V, 1000A
- » Available CE certificate of conformity

# G900 features

- » Optimized footprint
- » Automatic N<sub>2</sub> purge on shutdown
- » Integrated H<sub>2</sub> sensor
- » Separate high-flow liquid stack cooling module
- » Regenerative (back-to-grid) load bank
- » LCD monitor and PC
- » Ample 19" rack space
- » Water balance capability
- » Optional humidifier by-pass
- » Optional dead-end mode

With power levels up to 250kW, the G900 is the world's most advanced high power fuel cell test station. The G900 can be customized for transportation, stationary or marine fuel cell applications.

**HyWARE II™**: Our control and automation software, comprehensively manages the full range of test station parameters with a simple user-friendly interface.

**HyAL™**: Our proprietary automation language, is exponentially more powerful than look-up table automation systems, and computer programming skills are not required to create even complex automation scripts. Greenlight even offers optional pre-written scripts to help you start testing right away.

## Specifications

### Performance Commitment:

At Greenlight, we pride ourselves on making the world's best fuel cell testing equipment. We are committed to your satisfaction and we will do whatever it takes to meet or exceed your expectations.

### Includes 3 levels of safety:

1. Hard-wired interlocks
  2. Factory software interlocks
  3. User-configurable software interlocks (warning high/low alarms and shut-down high/low alarms)
- » N<sub>2</sub> purge
  - » H<sub>2</sub> sensor
  - » Manual emergency stop

<b>POWER RANGE</b>	25 - 250 kW
<b>GAS FLOWS</b>	(custom ranges available)
Standard anode flow range	25 - 5000 nlpm; available to 6000 nlpm
Standard cathode flow range	50 - 7500 nlpm; available to 10000 nlpm
<b>GAS MIXING</b>	up to 8 gases available
<b>GAS HUMIDIFICATION</b>	steam injection or contact available
Dew point control	up to 90°C † (194°F) †; higher temperatures available
Gas temperature	up to 110°C † (230°F) †; higher temperatures available
<b>STACK COOLING</b>	
Flow range	600 lpm
Temperature control	up to 90°C (194°F) †
<b>STACK PRESSURE CONTROL</b>	
Back pressure control	up to 300 kPa † (45psi) †; higher pressures available
<b>PROGRAMMABLE LOAD BANK</b>	regenerative (back to grid); up to 250kW, 900V, 1000A
<b>CELL VOLTAGE MONITORING</b>	
Standard number of channels	800+; additional channels available
Accuracy	+/- 1mV
<b>DIMENSIONS (L x H x W) (approximate)</b>	test station: 2950 x 2300 x 1600 mm (116 x 90 x 63 in)
	coolant module: 1070 x 2370 x 1650 mm (42 x 93 x 65 in)

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

Greenlight Innovation Corporation, Burnaby, B.C. Canada. All specifications and illustrations contained in this brochure are based on the latest product information available at the time of printing. Greenlight reserves the right to make changes at any time without notice in materials, equipment, specifications and models. Printed in Canada

