

## Fuel Cell Hot Test Station

Stand-Alone Hydrogen Fuel Cell Hot Tester



- Hydrogen flow measurement
- Liquid coolant module
- Electronic load bank, back-to-grid
- Data acquisition
- CANBUS Integration with FCE controller
- Auxiliary power supply system
- 24/7 unattended operation with Emerald™ control and automation software
- Optional integrated environmental chambers
- CE certification including optional 3rd party verification
- Complete integration with facility safety systems
- Optional support with facility design / integration
- Test compliance to standards, including GB/T 24554 - 2009 and GB/T 29126 - 2012

# Features

The Fuel Cell Engine Hot Tester features an open architecture design with numerous available options.

**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.



Emerald™ Process Screen

## 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)
  - Safety gas purge
  - H<sub>2</sub> sensor
  - Manual emergency stop
  - Customizable software state model
  - Safety PLC

# Specifications

<b>APPROXIMATE POWER RANGE</b>	0.5 - 100+ kW
<b>GAS FLOWS</b>	
Standard anode flow range	customer definable (100:1 turndown MFC's)
Cathode flow range	not measured or controlled
<b>GAS CONDITIONING</b>	
Gas saturation control	various technologies available, depending on application
Gas pre-heating	various technologies available, inc. exhaust heat reclamation
<b>TEST ARTICLE INTERFACE</b>	CANbus interface, 24V and 12V power supplies for system ancillaries
<b>LOAD BANK</b>	Various configurations available inc. resistive and back-to-grid
<b>DIMENSIONS</b>	(L x W x H) (approximate) 2.2m x 1.8m x 2.2m

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