

FCATS™ X20

SOLID OXIDE CELL Single Cell Test Station



- » X20 power range: 0 - 100 Watts
- » Emerald™ control software
- » Custom fixtures available for planar or button cell testing
- » Automated scripting capability
- » Safety systems for unattended operation
- » Computer and monitor included
- » Cost effective bench top design
- » Various furnace configurations available
- » Available CE certificate of conformity

X20 Features

- » Fuel gas blending optional
- » Automated safety system
- » Multiple furnace options
- » H₂ & CO sensors available
- » Gas preheating option
- » Exhaust treatment options
- » Optional integrated diagnostic tools

The Greenlight X20 SOFC test station is designed to have all the flexibility to meet your testing needs. The station's open architecture results in a system that is customer definable; tailored to your exact requirements.

Emerald™ : Our control and automation software offers exceptional functionality with a user-friendly graphical interface. Enhanced with our proprietary **Emerald™** automation language and load following technology, **Emerald™** comprehensively manages the full range of test station parameters with a simple user-friendly interface that permits even novices to assemble automation scripts in minutes. **Emerald™** 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.

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)
 - » N₂ purge
 - » H₂ sensor
 - » Manual emergency stop

Specifications

APPROXIMATE POWER RANGE	0 - 100 Watts
GAS FLOWS	100:1 turndown MFC's
Standard anode flow range	0.02 - 2 nlpm
Standard cathode flow range	0.04 - 4 nlpm
GAS MIXING	
Anode and Cathode inlets	optional gas mixing lines available
Liquid Fuel	optional
GAS HUMIDIFICATION	
Gas saturation	anode included; cathode optional
Technology	metered water injection, bubbler or contact humidifiers
PRESSURE CONTROL	
Control range	optional
GAS PRE-HEATING	
Heater type	optional electric heaters or internal furnace pre-heat
PROGRAMMABLE LOAD BANK	150 Watts, 80 Amps, 50 Volts
DIAGNOSTIC OPTIONS	EIS, current interrupt, cyclic and linear sweep voltammetry

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