

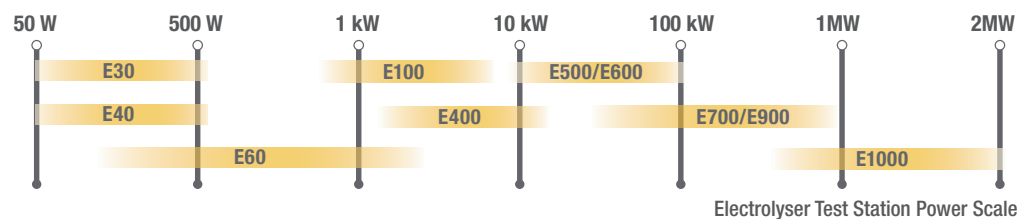
Electrolyser

Cell and Stack Test Stations



E1000 Test Station

Photo: RU Limbach



- Power ranges from 50W to 2MW+
- PEM, AEM and Alkaline versions available
- Featuring Emerald™ control software
- Fully automated for unattended operation
- Inert gas purge system
- Available CE certificate of conformity

ETS Features

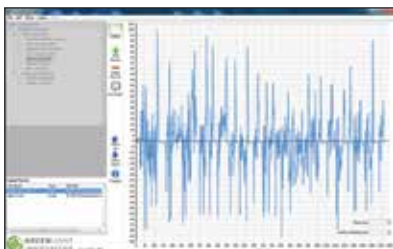
- DI water or alkaline solution
- Water and gas separation on outlet
- Pressurized control on both anode and cathode
- Automatic nitrogen purge on shutdown
- Stack pre-pressurization

Additional options include:

- Cathode water recirculation
- Gas chromatography
- Impedance spectroscopy
- Anode and cathode product gas analysers
- In-line oxygen and hydrogen gas sampling
- Programmable power supplies up to multi-MW

Greenlight's ETS series sets the industry standard for both PEM and alkaline electrolyser testing.

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.



Load Cycle Importer Graph



E400 Test Station

Specifications

Includes 3 levels of safety:

1. Hard-wired interlocks with emergency stop
2. Factory software interlocks
3. User-configurable software interlocks (warning high/low alarms and shut-down high/low alarms)
 - N₂ purge
 - H₂ sensor
 - Optional safety enclosure

POWER RANGE	50W - 2MW+
WATER FLOWS	Anode and cathode DI water supply with metering pumps
PRESSURE CONTROL	Up to 50 bar (725 psi), with pre-pressurization
STACK COOLING	Anode and cathode DI water cooling with recirculation
POWER SUPPLY	Constant current, constant voltage up to 10,000A and 1000V+
DATA ACQUISITION SYSTEM	Cell voltage and temperature
DIMENSIONS (L x W x H) approximate	Various frame sizes depending on application

Electrolyser Test Hardware Features

Features include:

- Unique O-ring sealing technology for operating pressures up to 50barg
- Designed for active areas of 50cm²
- Anodized aluminum end plates with titanium internal plates
- Optional electrical cartridge heating



PEM Electrolyser Research Hardware

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