



Water Electrolyser Test Station ETS-1

Key features

User-Friendly manual operation with P&ID visualization or automated operation using in-house developed Python library

Ability to perform a wide range of tests, including JRC standard performance curve, H_2 crossover, hydraulic curve, and many more

Streamlined standardization for rapid deployment

Hydrogen and oxygen production measurement

"Plug and Play" test station for AEM and PEM electrolyzers

Capability to test electrolyzers up to 1kW

High-pressure testing (anode up to 10 bar, cathode up to 50 bar)

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Specifications

DC source options with EIS:

$\pm 5\text{ V} / \pm 20\text{ A}$, $\pm 5\text{ V} / \pm 50\text{ A}$,
 $\pm 10\text{ V} / \pm 50\text{ A}$, $\pm 5\text{ V} / \pm 100\text{ A}$,
BioLogic $\pm 3\text{ V} / \pm 80\text{ A}$

Water flow rate control:

160 to 2400 mL/min

Cathode pressure (hydrogen):

up to 50 barg

Anode pressure (oxygen):

up to 10 barg

Applications

- Material and stack assembly research
- Efficient stack production
- Parameter testing of electrolyzers under various conditions
- Testing of electrolyzers according to JRC standards

DC source options without EIS:

up to 60 V and 170 A

Water temperature control range:

40 °C to 90 °C

Passive cooling capacity:

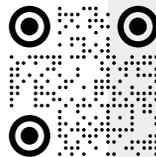
up to 565 W

Width / height / depth:

970 mm / 1560 mm / 1330 mm

Weight without source:

298 kg



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