IP-PECHC50: FULLY EQUIPPED PHOTO-ELECTROCHEMICAL H-CELL

The **IP-PECHC50** is a fully equipped, horizontally mounted and a dual compartment H-Cell set-up with an additional quartz window (light input port diameter: 20 mm) for studies in photo-based electrocatalysis such as Hydrogen Evolution Reaction (HER), Each compartment is capable to hold 50 mL of electrolyte. Oxygen Evolution Reaction (OER), and more. The construction is gas-tight having two separate chambers, each equipped with gas inlet and outlet. This allows bubbling the solution and evacuating gases.

Chambers can be separated with an ion-exchange membrane (DuPont's Nafion® membrane – not included in the price), so the electrochemical products appearing at working and counter electrode do not affect the opposite electrode. Set-up is compatible with a power source meter or a Potentiostat / Galvanostat.

Available Volumes: 100 mL, 250 mL, 500 mL, and 1000 mL

Customization Options: YES. Photo-anode as well as Photo-cathode configurations possible.

Wet Parts: Glass & silicon and thus, no limitations due to pH of electrolyte.

Includes: Glass reservoirs with three-electrode set-up (2), Quartz window (1), Spacer (2), Grip nuts (2), Screws (2), Purge adaptor (2), Teflon support holder (2), Top silicon dummy (4), Plugs (6), Silicon tube 0.5 meters (4), Silicon septa (6)

Related Applications:

- Photo- electrochemical water splitting - HER / OER or any such electrocatalysis applications
- Photo-based electrocatalysis research
- Photo-based membrane research: Proton conductivity, Ionic conductivity, membrane efficiency
- Solar cell research and studies
- Organic light emitting diodes
- Semi-conductor research

Ordering Information for Recommended Parts:

- IP-HC-50: Fully Equipped H-Cell Kit (50 mL Volume)
- MF-2052: Ag/AgCl (3M NaCl) Reference Electrode with Flex. Connector
- MW-1033: Coiled Platinum Wire Counter electrode
- MF-2012: Glassy Carbon Electrode (3 mm))
- MF-2024: Working Electrode Holder