

Electrochemical Cell Set-up

KEC01

Electrochemical Cell Setup

The electrochemical cell setup is suitable for most of the electrochemical measurements in a liquid environment (0°C-100°C). This cell setup can be used for electrochemical measurements either in two or three-electrode configurations. The rigid polypropylene (PP) frame allows the user to maintain a fixed distance among all the electrodes. It also provides flexibility to manipulate the depth of immersion for different electrodes. This setup comes with the provision of attaching a reference electrode in a separate compartment via a salt-bridge.

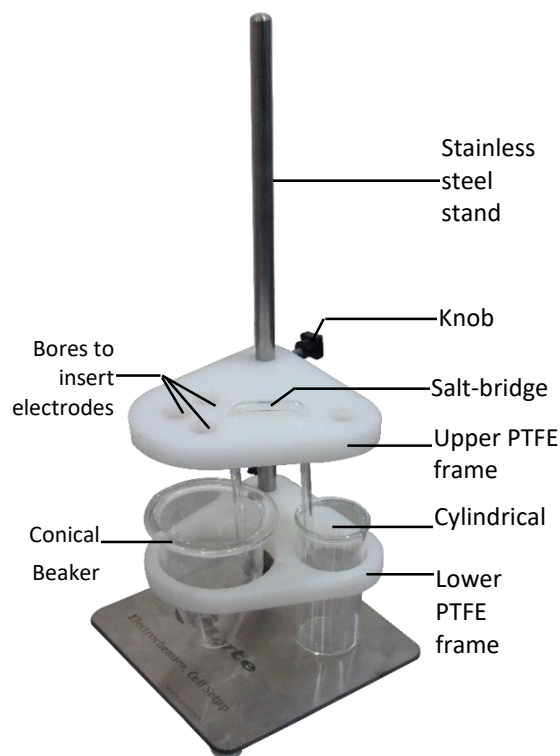


Figure 1: Different parts of electrochemical cell setup

The electrochemical cell setup includes the following parts which require assembly before performing experiments (Figure 1).

- One conical borosilicate glass beaker (bottom cell), that can hold up to 100 mL.
- One cylindrical borosilicate glass beaker that can hold up to 100 mL.
- One PP frame to hold the above two glass beakers.
- Another PP frame to hold the electrodes and salt-bridge: Total four bores on this frame to lock 14/23 joint (compatible to all Kanopy electrodes) and two small bores to hold the salt-bridge.
- A salt-bridge glass tube.
- One stainless steel stand to attach all the cell setup components.



Figure 2: An application image.
(Electrodes and cables should be purchased separately)

Optional accessories

Reference electrodes

Different kinds of Kanopy reference electrodes are available. One can choose any of these according to the reaction conditions such as acidic, basic, or neutral and operating temperature range.

KRE01 Silver-Silver Chloride (Ag/AgCl) electrode

KRE03 Mercury-Mercurous Chloride (Hg/Hg₂Cl₂) or Saturated Calomel Electrode (SCE)

KRE04 Mercury-Mercuric oxide (Hg/HgO)

KRE06 Silver-Silver ion non-aqueous electrode

Platinum electrodes (working and auxiliary)

KWE01 Platinum wire electrode

KCE01 Platinum mesh electrode

KCE02 Platinum coil electrode

KWE03 Platinum foil electrode

Disc type electrodes (working)

KDE01, KDE02 Glassy carbon disc electrode

KDE03, KDE04 Gold disc electrode

KDE05, KDE06 Platinum disc electrode

Working electrode holder

KWEH01 Working electrode holder, screw type



KWEH02B Working electrode holder, clip type





KEC10A
Banana Cable Set



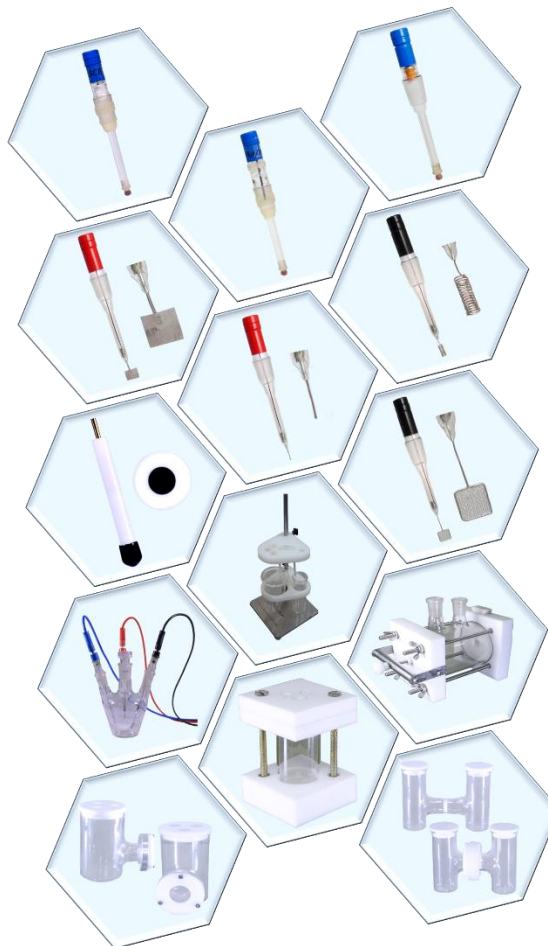
KEC10B
Banana Connector Pin



KA01 (Red), KA02 (Black)
Alligator Clip



KA28
Thermometer



Kanopy Techno Solutions

Crafting electrochemistry for lives...

Product Information Leaflet



Electrochemical cell set-up
Product ID: KEC01

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