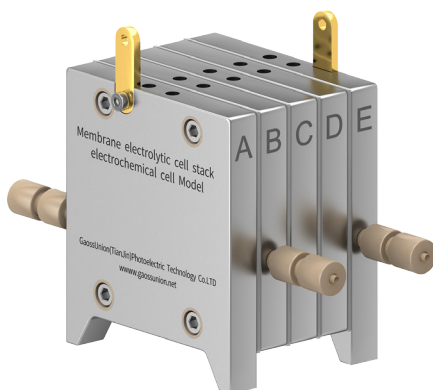
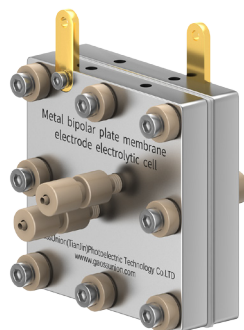
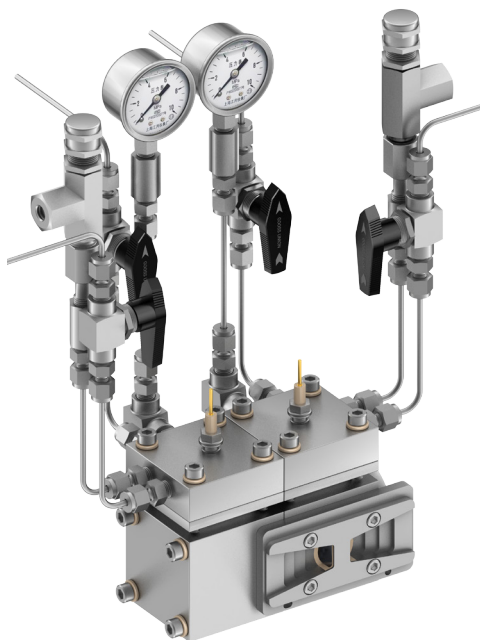


Electrochemical Product Catalogue

Electrolytic Cells Electrode



COMPANY

Company Profile Gaoss Union was established in 2008 in East Lake High-Tech Development Zone of Wuhan, known as "Optics Valley of China".

Ever since its establishment, Gaoss Union has devoted to research, development, production, sales and service of electrochemical products. It is a scientific and technological company with research of electrochemical reactions as well as design and manufacture of electrochemical devices as its major businesses.

Gaoss Union manufacture and sell three-electrode, electrolytic cells, flow cells, characterization cells, electrochemical materials, etc. required for electrochemical experiments, as well as provide customized electrode and electrochemical device services.

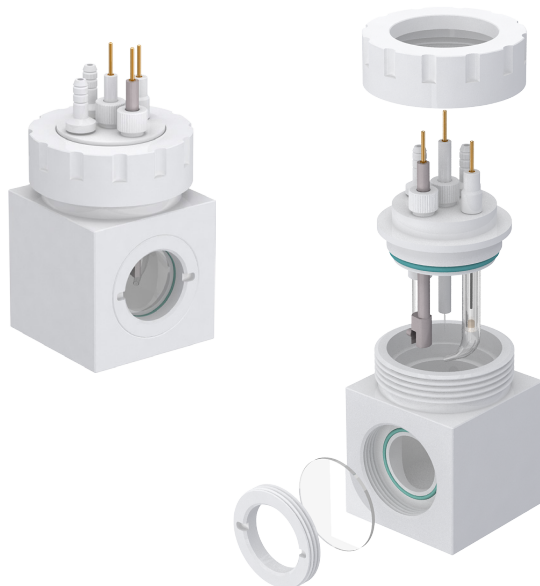
Welcome to inquire.



Full PTFE Photoelectrochemical Cell Series

Single-Cell Full PTFE Photoelectrochemical Cell (Relatively Sealed)

Model: C026-1



- The electrolytic cell is a photoelectrochemical cell.
- The optical window of the electrolyte cell is made of quartz, with a transmittance >95%.
- The compatible electrodes of the electrolytic cell need to be purchased separately.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The cell body of the electrolytic cell is designed with an external threaded port. The top electrodes holder is 360-degree rotatable, made of PTFE, allowing precise alignment of electrodes with the channels (generally parallel to the membrane). lid to seal
- Electrode area seals via O-rings and screws.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.
- This electrolytic cell can add a sampling port on the cell body, at this time additional cost is required
- The cell's quartz plate is removable for quick replacement

Volume (ml)		Volume (ml)
50mL		200mL
100mL		250mL
150mL		500mL

All sizes listed are common sizes, can be customized according to requirements.

Full PTFE Photoelectrochemical Cell Series

Single-Cell Full PTFE Photoelectrochemical Cell (Absolutely Sealed)

Model: C026-2



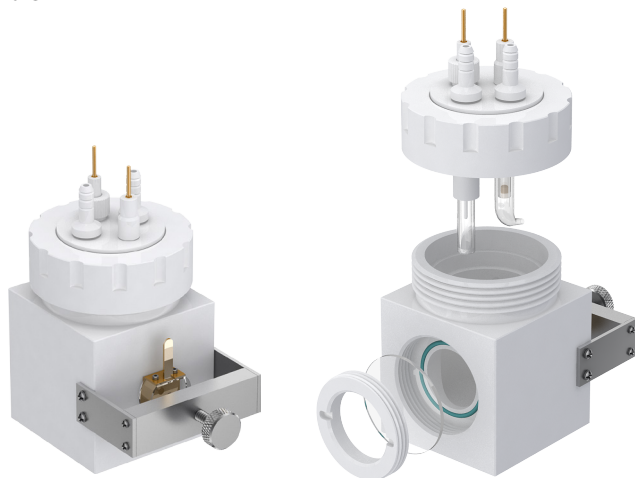
- The electrolytic cell is a photoelectrochemical cell.
- The optical window of the cell is made of quartz, with a transmittance >95%.
- The compatible electrodes of the electrolytic cell need to be purchased separately.
- The electrode part of the electrolytic cell is plugged in and out through the earphone jack on the cover, so that the electrode system is absolutely sealed.
- The body of the cell is made of PTFE.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The cell body of the electrolytic cell is designed with an external threaded port. The top electrodes holder is 360-degree rotatable, made of PTFE, allowing precise alignment of electrodes with the channels (generally parallel to the membrane). lid to seal
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.
- This electrolytic cell can add a sampling port on the cell body, at this time additional cost is required.
- The cell's quartz plate is removable for quick replacement.

Volume (ml)		Volume (ml)
50mL		200mL
100mL		250mL
150mL		500mL

All sizes listed are common sizes, can be customized according to requirements.

Full PTFE Photoelectrochemical Cell Series

Single-Cell Full PTFE Photoelectrochemical Cell (Relatively Sealed, Bracket Type)
Model: C026-3



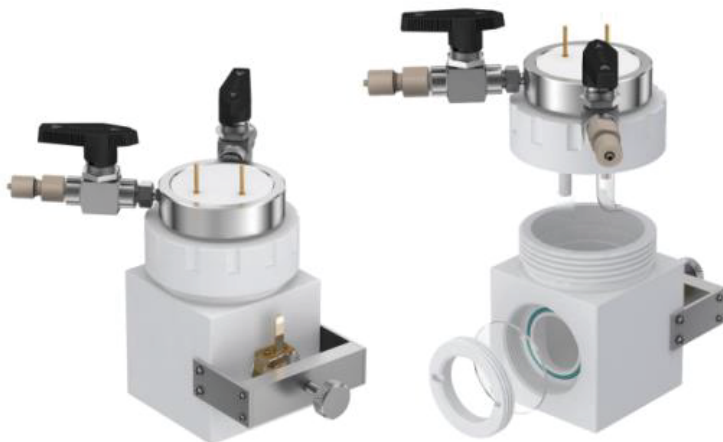
- The optical window of the electrolyte cell is made of quartz, with a transmittance >95%.
- The working electrode of the electrolytic cell can use non-standard samples, but it needs to cover the positioning hole.
- The electrolytic cell has a fixed area of 1cm², and can also be customized.
- The electrolytic cell is screwed into the back screw to withstand the working sample, and the working electrode is used to press the positioning hole to achieve the sealing of the cell body.
- The standard area of the electrolytic cell is 1cm², and it can also be customized according to requirements.
- The compatible electrodes of the electrolytic cell need to be purchased separately.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The top electrodes holder is 360-degree rotatable, made of PTFE, allowing precise alignment of electrodes with the channels (generally parallel to the membrane), and seal by screwing on the PTFE outer cover.
- Electrode area seals via O-rings and screws.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.

Volume (ml)		Volume (ml)
50mL		200mL
100mL		250mL
150mL		500mL

All sizes listed are common sizes, can be customized according to requirements.

Full PTFE Photoelectrochemical Cell Series

Single-Cell Full PTFE Photoelectrochemical Cell (Relatively Sealed, Bracket Type)
Model: C026-3



- The optical window of the electrolyte cell is made of quartz, with a transmittance >95%.
- The working electrode of the electrolytic cell can use non-standard samples, but it needs to cover the positioning hole.
- The electrolytic cell has a fixed area of 1cm², and can also be customized.
- The electrolytic cell is screwed into the back screw to withstand the working sample, and the working electrode is used to press the positioning hole to achieve the sealing of the cell body.
- The standard area of the electrolytic cell is 1cm², and it can also be customized according to requirements.
- The compatible electrodes of the electrolytic cell need to be purchased separately.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The top electrodes holder is 360-degree rotatable, made of PTFE, allowing precise alignment of electrodes with the channels (generally parallel to the membrane), and seal by screwing on the PTFE outer cover.
- Electrode area seals via O-rings and screws.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.

Volume (ml)	Volume (ml)
50mL	200mL
100mL	250mL
150mL	500mL

All sizes listed are common sizes, can be customized according to requirements.

Full PTFE Photoelectrochemical Cell Series

Full PTFE H-Type Replaceable Membrane Photoelectrochemical Cell (Relatively Sealed)
Model: C027-1



- Electrodes need to be the longer type based on dimension of the cell.
- The body of the cell is made of PTFE.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The cathode chamber and anode chamber of the electrolytic cell are separated by an ion membrane (prepared by the user), and the two chambers are sealed and connected by nails, which is convenient for replacing the diaphragm. The reference electrode and the working electrode are in the same chamber, effectively reducing the resistivity (R drop).
- The top electrodes holder is 360-degree rotatable, made of PTFE, allowing precise alignment of electrodes with the channels (generally parallel to the membrane), and seal by screwing on the PTFE outer cover.
- Electrode area seals via O-rings and screws.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.
- The compatible electrodes of the electrolytic cell need to be purchased separately.

Volume (ml)	Volume (ml)
30mL	150mL
40mL	200mL
50mL	250mL
100mL	500mL

Full PTFE Photoelectrochemical Cell Series

Full PTFE H-Type Replaceable Membrane Photoelectrochemical Cell (Absolutely Sealed)
Model: C027-2



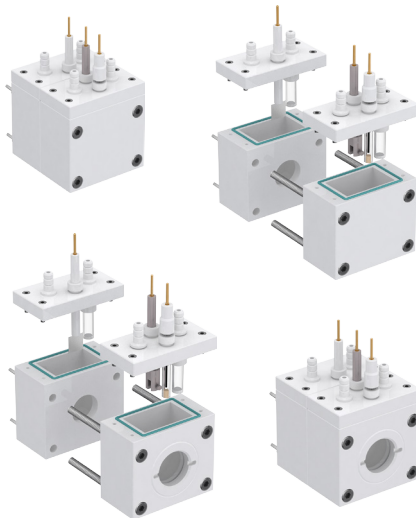
- The sealed cell is equipped with valves and gas connectors, inlet direction is through the aeration device valve.
- The electrolytic cell is an absolutely sealed system, which can be vacuumed through the valve (below -100Kpa), and the electrolytic cell can be slightly pressurized. For safety reasons, the pressure should not be greater than 0.5MPa.
- The working electrode, auxiliary electrode and reference electrode of the electrolytic cell must be customized to match the electrolytic cell. The compatible electrodes of the electrolytic cell need to be purchased separately.
- The electrode part of the electrolytic cell is plugged in and out through the earphone jack on the cover, so that the electrode system is absolutely sealed.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 500ml.
- The cathode chamber and the anode chamber of the electrolytic cell are separated by an ion membrane (prepared by the user), and the two chambers are sealed and connected by nails, which is convenient for replacing the diaphragm.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.
- The quartz plate of the electrolytic cell can be quickly disassembled and replaced.

Volume (ml)	Volume (ml)
30mL	150mL
40mL	200mL
50mL	250mL
100mL	500mL

Full PTFE Photoelectrochemical Cell Series

Full PTFE H-Type Replaceable Membrane Photoelectrochemical Cell

Model: C032-1

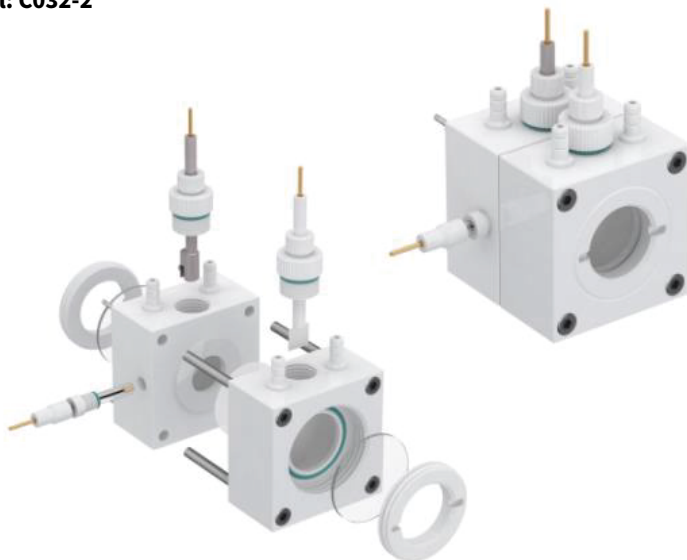


- Electrodes need to be the longer type based on dimension of the cell.
- The body of the cell is made of PTFE.
- This cell is often used in a 3-electrode system, with a customizable volume of 25ml to 40ml.
- The electrolytic cell is a relatively sealed system. The cathode chamber (working electrode) and the anode chamber (comparison electrode) are separated by an ion membrane (prepared by the user). The two chambers are sealed and connected by nails, which is convenient for replacing the diaphragm. The working electrode is in the same room, effectively reducing the resistivity (R drop).
- The sealing part of the cell body of the electrolytic cell is in the form of a pressure plate, so that the cover and the cell body can be sealed.
- Electrode area seals via O-rings and screws.
- The electrolyte cell is equipped with a bubbler that can aerate below the liquid surface, creating different atmospheres for various experiments.
- The electrolytic cell can also increase the optical window.
- The compatible electrodes of the electrolytic cell need to be purchased separately

Volume (ml)
25mL
40mL
25mL (with optical window)
40mL (with optical window)

Full PTFE Photoelectrochemical Cell Series

Full PTFE H-Type Replaceable Membrane Photoelectrochemical Cell Model: C032-2

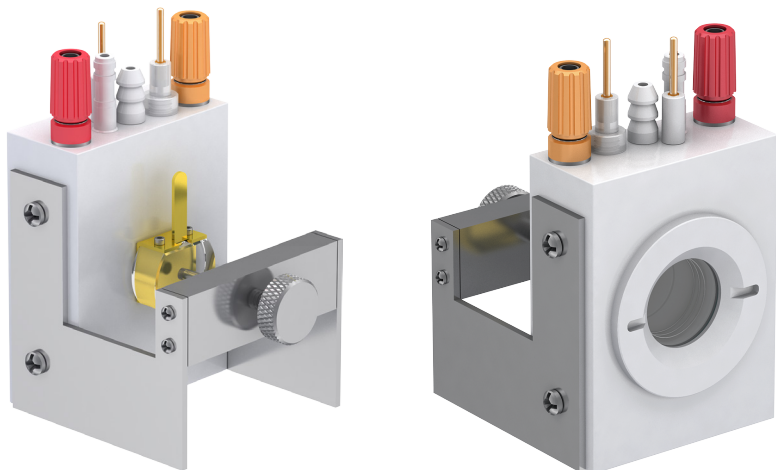


- Electrodes need to be the longer type based on dimension of the cell.
- The body of the cell is made of PTFE.
- This cell is often used in a 3-electrode system, with a customizable volume of 30ml to 40ml.
- The electrolytic cell is a relatively sealed system. The cathode chamber (working electrode) and the anode chamber (comparison electrode) are separated by an ion membrane (prepared by the user). The two chambers are sealed and connected by nails, which is convenient for replacing the diaphragm. The working electrode is in the same room, effectively reducing the resistivity (R drop).
- The cell body of the cell is designed with internal thread. Electrode area seals via O-rings and screws.
- The electrolytic cell is equipped with a device that can ventilate under the liquid surface, and the atmosphere can be adjusted according to different experiments.
- The quartz plate of the electrolytic cell can be quickly disassembled and replaced.
- The diameter of the optical window is 37mm.
- The compatible electrodes of the electrolytic cell need to be purchased separately.

Volume (ml)
25mL
40mL

Full PTFE Photoelectrochemical Cell Series

Small Volume Side Window Electrochemical Cell (Bracket Type) Model: K1300

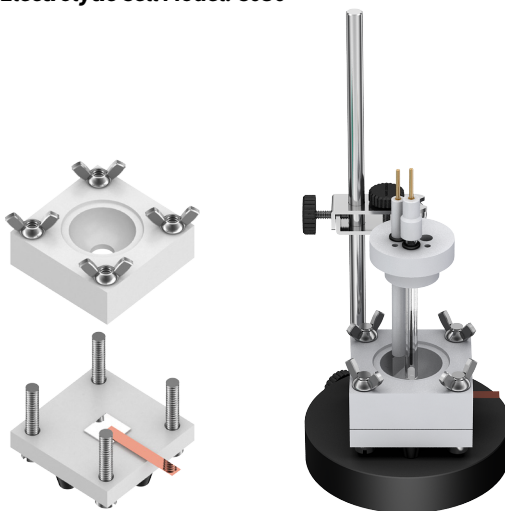


- The electrolytic cell is a photoelectrochemical cell. The cell is made of PTFE.
- The optical window of the electrolyte cell is made of quartz, with a transmittance >95%.
- The working electrode of the electrolytic cell can use non-standard samples, but it needs to cover the positioning hole.
- The electrolytic cell has a fixed area of 1cm^2 , and can also be customized.
- The cell reference electrode is Ag/AgCl electrode.
- The counter electrode of the electrolytic cell is a platinum wire electrode.
- The electrolytic cell supports the working sample by screwing in the back screw, and uses the working electrode to press the positioning hole to achieve the sealing of the cell body.
- The cell has a nominal area of 1cm^2
- The left and right colored interfaces of the electrolytic cell are convenient for connection with the reference electrode and counter electrode of the electrochemical workstation.
- The compatible electrodes of the electrolytic cell need to be purchased separately.

Volume (ml)
5mL
10mL

Full PTFE Photoelectrochemical Cell Series

Full PTFE Plate/Sheet Electrolytic Cell Model: C030



- The cell is made of PTFE. The cell is divided into upper and lower layers, the upper layer is the cell body, and the lower layer is the fixed backing plate.
- The cell compresses the working electrode sample by tightening the screws around it.
- The cell uses a sheet-shaped working electrode, and the sample is easy to install, easy to disassemble, and easy to handle.
- The cell can be used for electrochemical experiments before electron microscope scanning, or for coating corrosion performance testing during corrosion testing.
- The bottom of the electrolytic cell has a circular hole with a fixed area of 1cm² (the required size can be customized according to requirements), and an O-ring that can be sealed. After placing the sample in the round hole, adjust and tighten the screw on the top of the cell body so that it can compress the sample to achieve a sealing effect.
- The conductive link of the working electrode of the electrolytic cell is made of copper tape, which is glued to the sample to make the sample conductive. Copper tape is easy to use, easy to replace after corrosion, and can better ensure electrical conductivity (sold separately).
- Reference Electrode: Ag/AgCl, Saturated Calomel (sold separately).
- Counter Electrode: platinum column, platinum sheet (sold separately).
- Working Electrode: sample to be tested (need to be prepared).

Volume (ml)
5mL
25mL
40mL