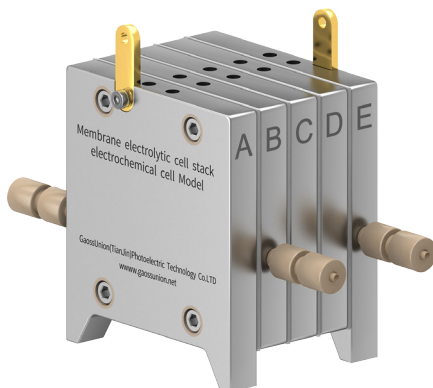
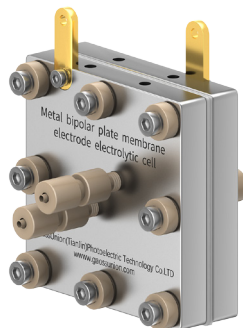
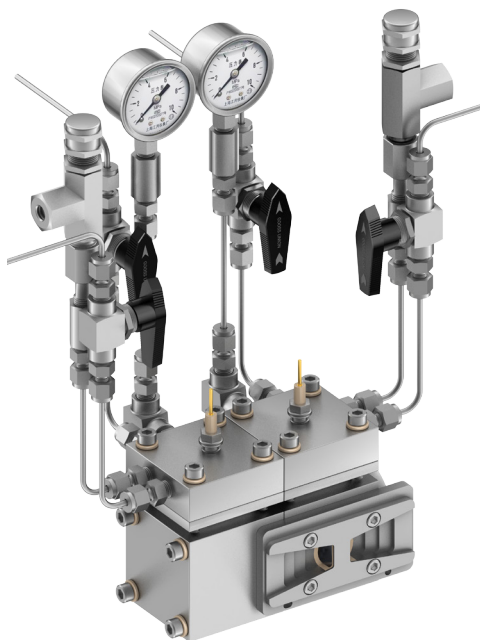


Electrochemical Product Catalogue

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.



Single Chamber Glass Electrolytic Cell Series

Variable Diameter Electrolytic Cell (Non-Sealed) Model: C001



- Cell Material: High purity borosilicate glass.
- Commonly used in three-electrode systems, with a volume ranging from 30ml to 500ml, customizable based on requirements.
- The single-cell opening of the electrolytic cell employs a flanging design to enhance stability.
- The electrolytic cell is equipped with variable diameter electrode holes (diameters: 6.5mm, 8.5mm, 10.5mm, 12.5mm) for easy matching with electrodes of different diameters.
- Additional features include the option to add a salt bridge or gas vent as needed.
- Inlet and outlet gas ports can be added to the electrolytic cell for atmospheric control based on experimental requirements.
- Available in single-layer and jacketed-layer configurations, with the jacketed-layer version incorporating a constant temperature water bath function. The constant temperature effect is achieved by continuously circulating temperature-controlled water in the jacket layer of the electrolytic cell.
- The electrodes of the electrolytic cell need to be purchased separately.

Volume (mL)	Single layer	Jacketed
30mL		
50mL		
100mL		
150mL		
250mL		
300mL		
500mL		

Single Chamber Glass Electrolytic Cell Series

Straight Five-Port Electrolytic Cell Model: C002-1

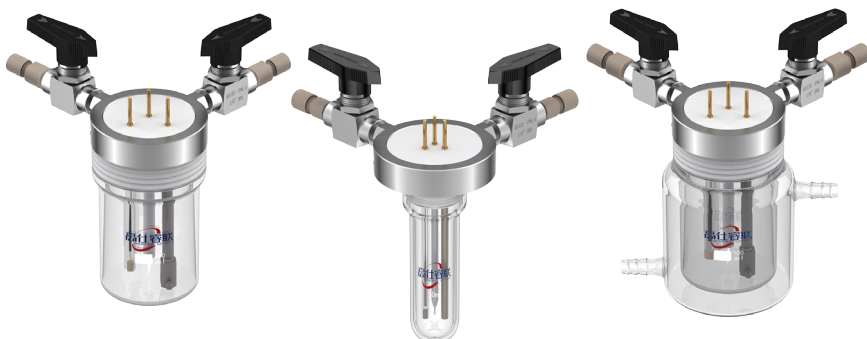


- Cell Material: High purity borosilicate glass.
- The electrolytic cell is a relatively sealed system commonly used in three-electrode systems, with a volume ranging from 30ml to 500ml, customizable based on requirements.
- The glass portion of the electrolytic cell achieves sealing between the cell and the cover through the screw-pressed O-ring on the cover. The electrode section also achieves sealing through sealed screws and compressed O-rings.
- The electrolytic cell is equipped with either a sand core salt bridge or a Luggin capillary.
- It features inlet and outlet gas ports with an aeration device for gas inlet, providing atmospheric control based on experimental needs.
- The jacketed-layer electrolytic cell includes a constant temperature water bath function, achieving a constant temperature effect by circulating temperature-controlled water within the cell for the measured solution.
- The cover material of the electrolytic cell is polytetrafluoroethylene (PTFE), with the size of the inner screw cover varying based on the cell's volume, typically ranging from 35mm, 50mm, 60mm, to 70mm in diameter.
- The electrodes of the electrolytic cell need to be purchased separately.

Volume (mL)	Opening Diameter	Volume (mL)	Opening Diameter	Single layer	Jacketed
30mL	50mm	200mL	60 mm		
50mL	50 mm	250mL	70 mm		
100mL	50 mm	500mL	70 mm		
150mL	60 mm	1000mL	70 mm		

Single Chamber Glass Electrolytic Cell Series

Straight Five-Port Electrolytic Cell Model: C002-2



- Cell Material: High purity borosilicate glass.
- The electrolytic cell is part of an absolutely sealed system commonly used in three-electrode systems, with a volume ranging from 10ml to 500ml, customizable based on requirements.
- The electrode section of the electrolytic cell achieves internal insertion and extraction of electrodes through a headphone jack on the cover, ensuring absolute sealing in the three-electrode system.
- The electrodes must be matched with the cell body. The electrodes need to be purchased separately.
- Salt bridges or Luggin capillaries cannot be added to this electrolytic cell; only a Ag/AgCl reference electrode can be used.
- Atmosphere protection is achieved through added valves and an aeration device. The valve connected to the aeration device controls the direction of gas inlet.
- This electrolytic cell, as part of an absolute sealing system, can be subjected to vacuum (less than -100kPa) or pressure by using valves. Pressurization requires a rounded bottom shape, and the pressure should not exceed 0.5MPa for safety.
- Due to process limitations, pressurization is prohibited in jacketed-layer electrolytic cells, as the inner glass walls are relatively thin.
- The jacketed-layer electrolytic cell includes a constant temperature water bath function, maintaining a constant temperature in the measured solution by circulating temperature-controlled water.

Volume (ml)	Opening Diameter	Volume (ml)	Opening Diameter	Single layer	Jacketed
10mL	17mm	200mL	60 mm		
30mL	50 mm	250mL	70 mm		
50mL	50 mm	500mL	70 mm		
100mL	50 mm	1000mL	70 mm		
150mL	60 mm				

Single Chamber Glass Electrolytic Cell Series

Traditional Five-Port Electrolytic Cell Model: C004



- Cell Material: High purity borosilicate glass.
- Configuration: Cell body, F-type gas inlet, salt bridge, liquid seal, polytetrafluoroethylene plug.
- This electrolytic cell is a relatively sealed system. Sealing between the cell and the cover is achieved through a frosted mouth and an inverted cone-shaped cover. If used with a rotating disk electrode and the sealing cannot be achieved, can increase the gas inlet amount above the liquid level for atmospheric protection.
- Commonly used in three-electrode systems, the electrolytic cell can also be customized based on requirements. The electrodes of the electrolytic cell need to be purchased separately.
- The electrolytic cell can be designed with a conical bottom, with a volume ranging from 5 to 25mL. It is equipped with an F-type gas inlet that allows both upward and downward ventilation. Atmospheric protection is adjusted based on different experiments. Ventilation under the liquid level should be stopped when the experiment begins, retaining only the ventilation above the liquid level.
- The electrodes of this electrolytic cell need to be compatible. The electrode section of the electrolytic cell achieves sealing through sealed screws and compressed O-rings.
- Equipped with a salt bridge, the electrolytic cell brings the reference electrode closer to the working electrode, effectively reducing resistivity.
- Available in single-layer and jacket-layer configurations. The constant temperature is achieved by continuously circulating temperature-controlled water in the jacket layer of the electrolytic cell for the measured solution.

Volume (ml)	Volume (ml)	Single layer	Jacketed
5-20mL*	150mL		
25mL	250mL		
50mL	500mL		
100mL	1000mL		

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

*5-20ml are the cell with conical bottom