

Cell



Plate and frame configuration



Customized electrodes



Adjustable anodic area

The equipment

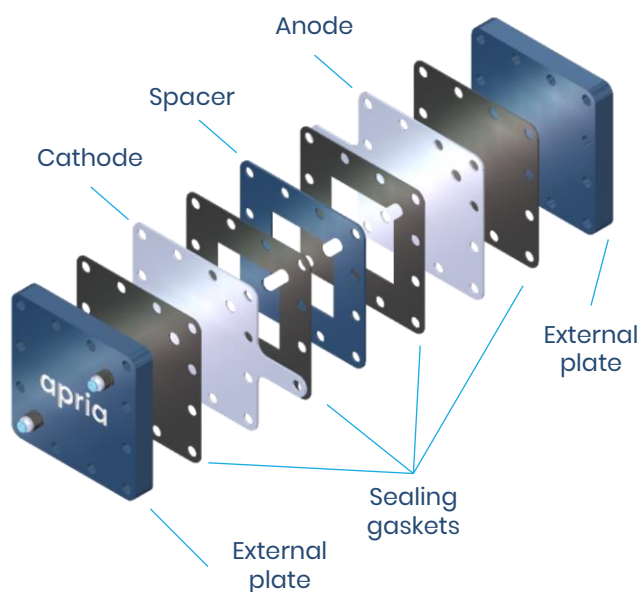
Apria Systems has designed a series of flexible customized electrochemical cells, being possible to select their **configuration** (distance between electrodes, number of compartments, etc.), **the active anodic area and the geometry of the electrodes**.

We have a wide variety of **electrodes materials** (BDD, carbon felt, IrO₂, Ni, PtO_x, RuO₂, stainless steel, Ti, etc.), allowing you to take your cell customization to the next level.

We also offer you maximum flexibility through our **interchangeable electrodes and cells**, allowing you to test different electrode materials in the same cell or different cells in the same equipment.



Elements of the system



Operation

1. Hydraulically connect the cell to the external circuit in which it is integrated
2. Electrically connect the electrodes' pins to an AC/DC power supply
3. Pump the fluid to be treated to the cell
4. Turn on the AC/DC power supply and select the desired working amperage and voltage
5. Perform the electrochemical treatment

Extremely easy

We offer a wide range of alternatives to adjust our equipment to your needs

Reactor characteristics

| | |
|-----------------------------------|---|
| Operation mode | Continuous / recirculation |
| Configuration | Plate and frame |
| Volume (mL) | Selectable |
| Flowrate (m³/h) | Selectable |
| Number of compartments | Selectable |
| Connection type | Barb fitting / Quick plug |
| Case material | Polypropylene (PP) / Stainless steel |
| Sealing gaskets material | Ethylene propylene diene monomer (EPDM) / Thermoplastic polyurethane (TPU) / Viton® |
| Optional items | Automatization / Feeding tank (jacketed option available) / Magnetic stirring / Online measurements (pH, O ₂ , etc.) / Pumping / Temperature control |

Electrodes

| | |
|--|--|
| Electrodes material | BDD / Carbon felt / IrO ₂ / Ni / PtO _x / RuO ₂ / Stainless steel / Ti |
| Anodic useful surface | Variable |
| Separation between the electrodes | Adjustable and selectable (> 1 mm) |

