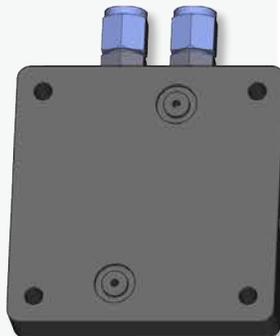
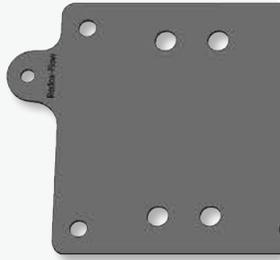
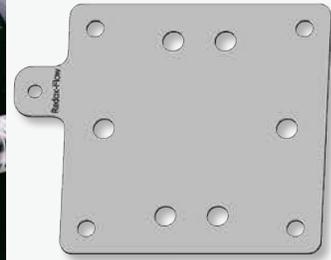
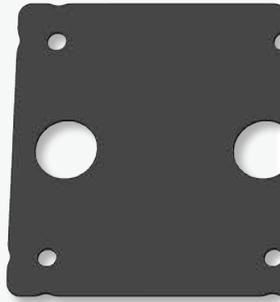
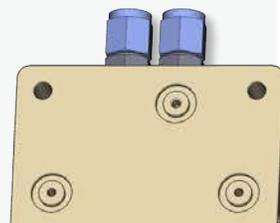
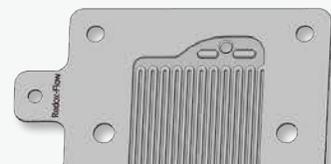
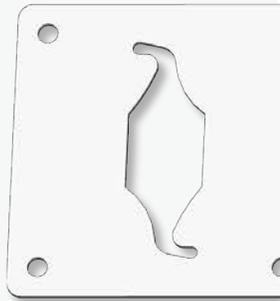
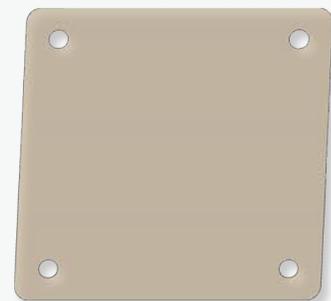


2025  
FLOW CELLS  
BROCHURE: ACCESSORIES

# REDOX FLOW



# Quality Flexible Solutions for **Electrolysis** in *R&D*



# Accessories

At Redox Flow, we aim to give you a shortcut to success. Our products have gone through multiple design iterations and extensive testing - so you don't have to reinvent the wheel. By combining our own innovations with carefully selected external components, we deliver one of the best value-to-performance ratios on the market. Our commitment is to recommend the best solutions tailored to *your* application.

## Designed for versatility.

We're not just here to sell products - we're genuinely interested in your research. Your feedback helps us understand how our solutions are used, allowing us to guide you more precisely.

Our philosophy is simple: *we are here to make your life easier*. Explore our research accessories and let's simplify your electrochemical research journey together.

## Contents

### Temperature Control

Single flow

Double flow

High power

### Inline Measurement

Pressure

pH, ORP, reference electrode

UV/VIS

OCV

### Custom Parts

Cell parts

Electrodes

Membranes



We build a lot of custom solutions for our customers, so if you have something in mind or need assistance, contact us!

# Accessories

Beyond our complete cell solutions, we offer a full range of accessories to simplify and enhance your research. From precision measurement tools to custom parts, our accessories are designed to integrate seamlessly with your setup - giving you everything you need in one place.



## Inline pressure unit

Pressure Measurement Unit that can be connected to a flow battery or electrolyser cell.

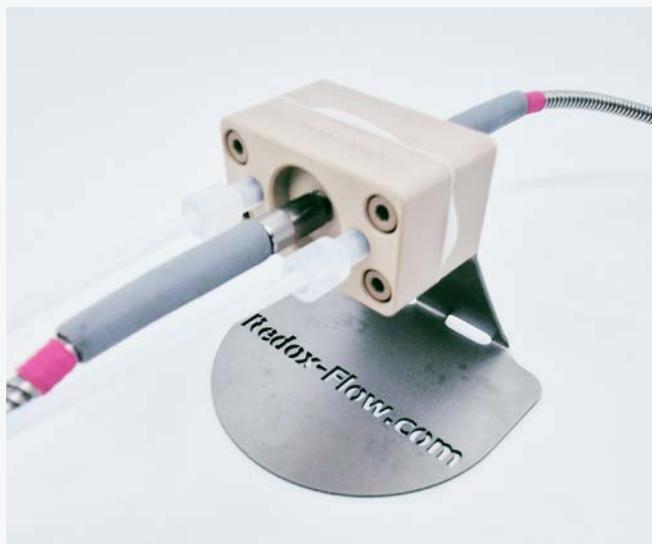
- Compact, inline design for direct pressure measurement
- Monitor hydraulic resistance of electrodes with high accuracy
- Integrated temperature sensing for added diagnostics
- Built from chemically highly resistant materials

## Flow-through electrode holder

Flow-through holder allowing you to safely integrate any type of pH, ORP, or reference electrode inline in your measurement setup.

- Fits a wide range of electrode diameters (3–18 mm)
- Compatible with our Luggin capillary electrolyser cell for precise reference potential measurement
- Durable, chemically resistant construction





## UV/VIS Fiber optical flow cell

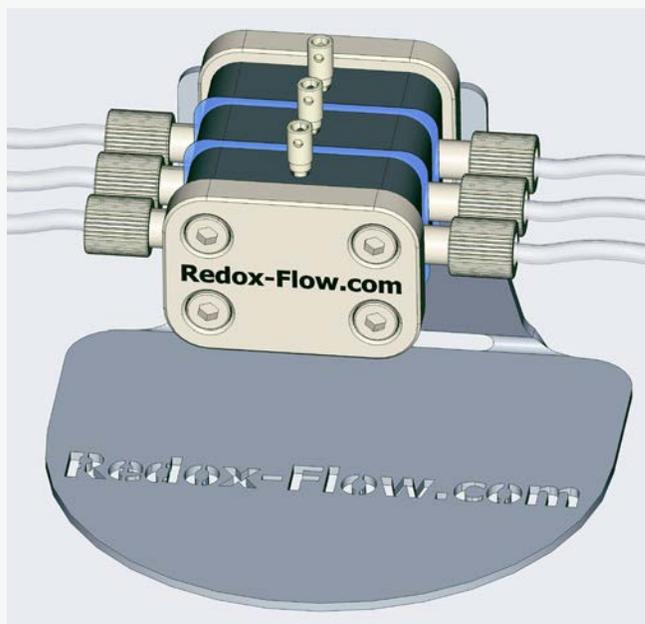
UV/VIS Optical flow-cell with a variable optical path length connects with standard fiber based spectrometers using SMA 905 connectors.

- Adjustable optical path length (0.05–8 mm) for maximum flexibility
- Supports high flow rates (>100 ml/min) with minimal pressure loss from a unique design with hydraulic bypass

## Open-circuit voltage (OCV) cell

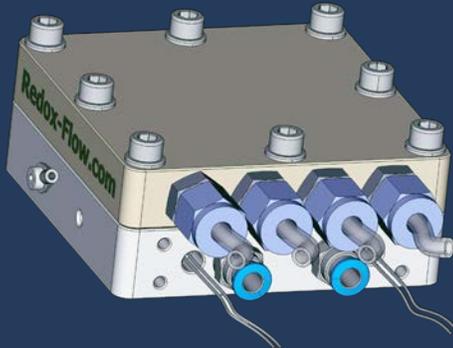
Flexible and chemically resistant OCV cell that can be readily integrated into your measurement setup.

- Integrated reference cell for accurate anode/cathode potential measurement
- Multifunctional design for OCV and overpotential studies
- Easy integration into existing setups with internal reference electrolyte chamber
- Durable graphite flow bodies ensure chemical resistance and stability



# Temperature control

Three interchangeable configurations (single flow, double flow, high power). Supports heating via hotplate, heater cartridges, or liquid circulation. Built from chemically resistant materials.

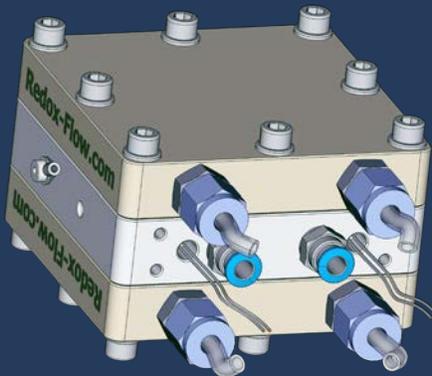


## Double flow

Can be operated using

- heating on a lab hotplate\*
- heat cartridges inserted into the unit (not included)
- cooling and heating water/liquid

*Can heat two electrolyte streams at the same time.*



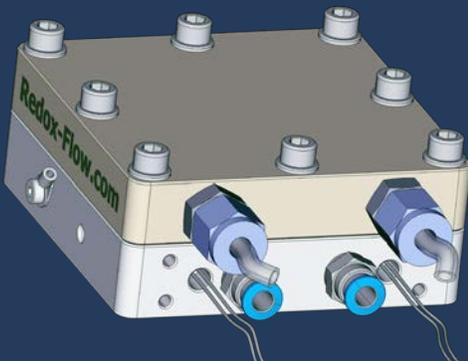
## High power

Can be operated using

- heat cartridges inserted into the unit (not included)
- cooling and heating water/liquid

*Can heat two electrolyte streams at the same time.*

For stacks or other applications where higher heating or cooling powers are needed



## Single flow

Can be operated using

- heating on a lab hotplate\*
- heat cartridges (not included) inserted into the unit
- cooling and heating water/liquid

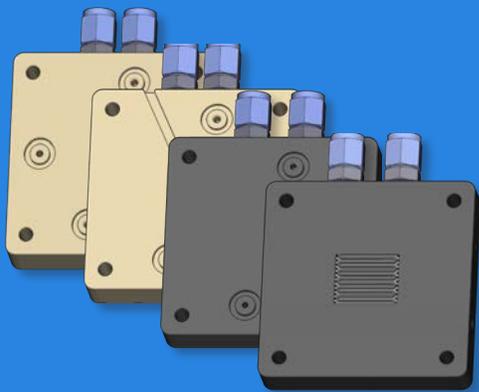
*Can heat only one electrolyte stream.*

\* Not included.

# Custom parts

Every component is fully **customizable** to suit your preference for *materials, flow field areas, sizes, etc.* All of our cells are designed for **compatibility** with custom solutions and are fully **interchangeable** - allowing you to use parts from one cell in another.

This makes it easy to replace individual components and adapt set-ups for different experiments.



## Flow Bodies

Material: PEEK, graphite, or PTFE, **or custom**

Surface: with or without additional ports or flow fields, **or custom**

## Anode and cathode current collectors

Material: nickel, stainless steel (316L), titanium, copper, platinum-coated titanium, gold-coated titanium, **or custom**

Flow field area: 2.5 x 2.5 cm, 5 x 5 cm, no flow field, **or custom**

Flow fields: Interdigitated, serpentine, **or custom**



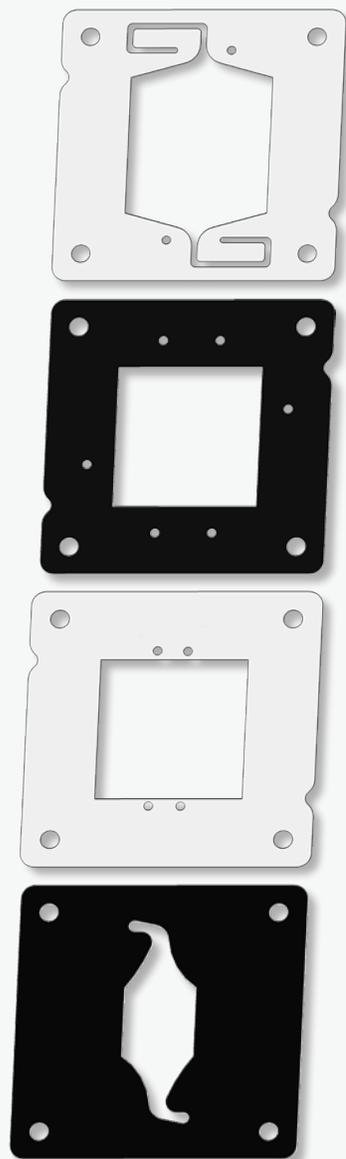
# Custom gaskets

Cover gaskets

Porous separator sealing gaskets

Flow field gaskets

Custom materials, gasket sizes,  
thicknesses, areas, and cuts.

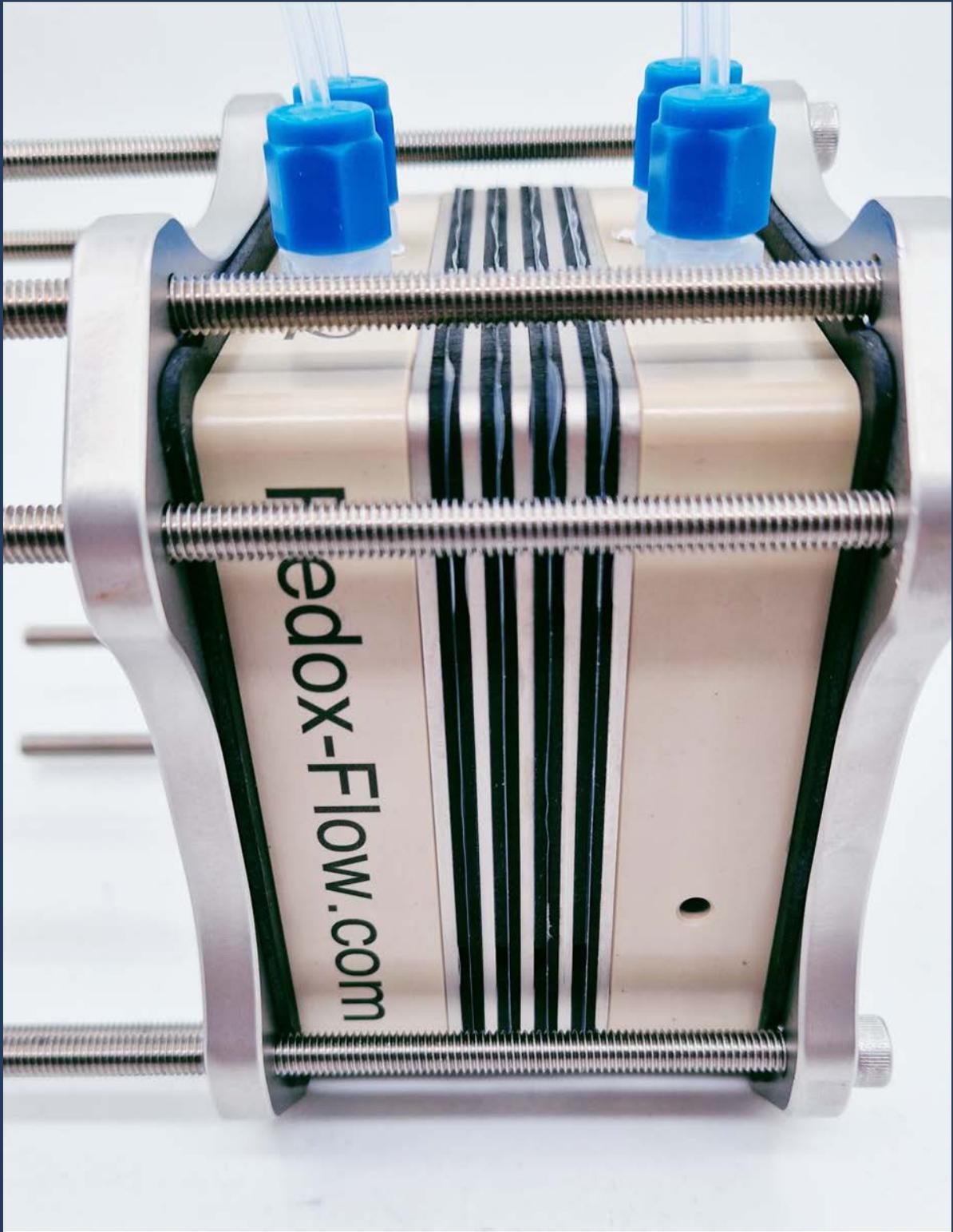


## Standard options

Material: VITON, EPDM, PTFE

Flow field area: 2.5 x 2.5 cm, 5 x 5 cm

Thickness: 0.05 mm, 0.1 mm, 0.25 mm, 0.5 mm, 1 mm, 1.5 mm, 2 mm



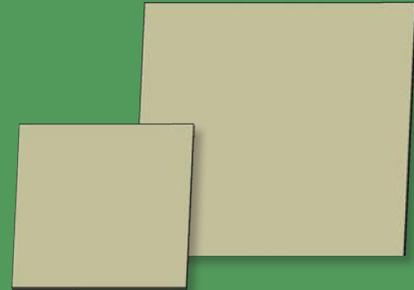
# Consumables

## Electrodes

### Carbon and graphite

Size: 2.5 x 2.5 cm or 5 x 5 cm

Type: graphite felt G280 - 2.8 mm, graphite felt G475 - 4.7 mm, or carbon paper MGL370 - 0.37 mm



### Metal felt

Size: 2.5 x 2.5 cm, 5 x 5 cm or 20 x 30 cm sheet

Surface: nickel or titanium

Thickness: 0.2 or 0.4 mm

### Nickel foam

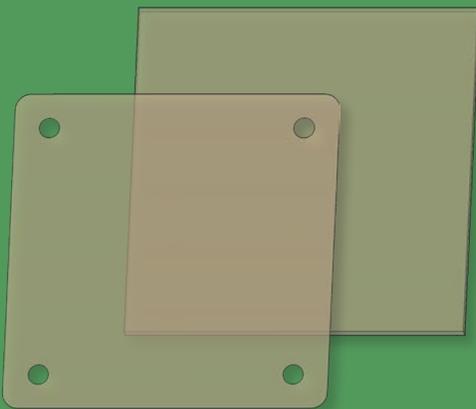
Size: 2.5 x 2.5 cm, 5 x 5 cm or 20 x 30 cm sheet

Thickness: 0.8, 1.2 or 1.7 mm



### Electrode cutting tools

Type: 5 x 5 cm, 2.5 x 2.5 cm, 2.5 x 2.5 cm with four slots



## Membranes

### Cation exchange membranes

Size: 12.5 x 12.5 cm or 10 x 10 cm  
precision cut with holes

### Anion exchange membranes

Size: 12.5 x 12.5 cm or 10 x 10 cm  
precision cut with holes

Type: FAP450, FAPQ330, FAAM20, FAAM-PK-75

### Membrane cutting tools

Type: for X-Stack, for S-Stack, for 3-compartment cell, 60 x 60 mm, or full size



...tubing, fittings, power, tools, and much more. For full inventory, go to our website [www.redox-flow.com](http://www.redox-flow.com)





Got any questions?  
Feel free to contact us!



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