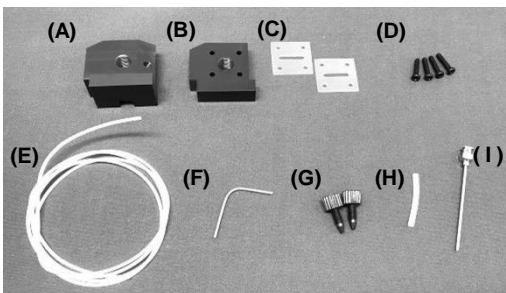


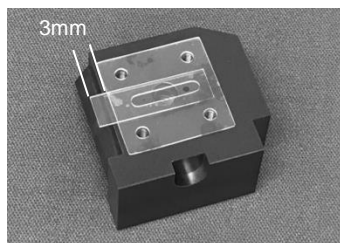
013684 SEC-3F Spectroelectrochemical flow cell



| | |
|--------------------------|------|
| (A) Flow cell block 1 | 1pc |
| (B) Flow cell block 2 | 1pc |
| (C) Silicon gasket | 2pcs |
| (D) Small screw | 4pcs |
| (E) Teflon tube | 1m |
| (F) Stainless steel pipe | 5cm |
| (G) Fitting (PEEK) | 2pcs |
| (H) Silicon tube | 3cm |
| (I) Needle for suction | 1pc |

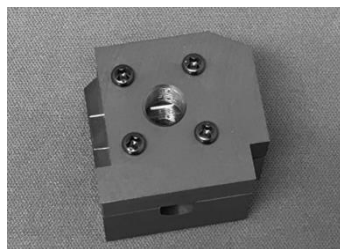
※ Working electrode and reference electrode are options.
 ※ Following tools are necessary for the replacement.
 ・ Phillips screwdriver (#2)

1. How to Assemble



(1) Overlap the gasket(C) on the flow cell block 1(A), matching the screw holes. Set a working electrode (option) to cover the center hole of the gasket(C), and set out about 3 mm from the flow cell block 1(A).

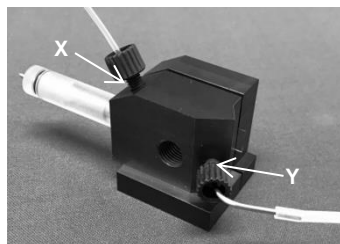
※ Gasket is a consumable. It is sold separately, also can be found in other material.



(2) Set the flow cell block 2(B) over the flow cell block 1(A) of the flow cell and the gasket(C), matching the screw holes.

Fix the flow cell blocks 1(A) and 2(B) by four screws(D), while making sure that the working electrode does not slip off.

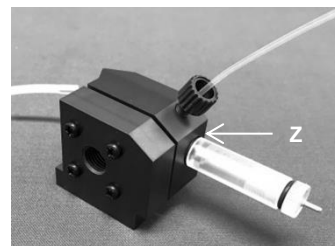
※ Tighten the 4 screws evenly. In particular, pay close attention to the general method of tightening the screws on the diagonal in order, otherwise the electrode is easily broken.



(3) Cut the Teflon tube (E) into two pieces of suitable length. Fix a Teflon tube for waste fluids on the location of the X and a stainless steel pipe(F) is fixed on a screw hole of Y by Fitting (PEEK) (G). Please join the stainless steel pipe(F) to the Teflon tube with a silicon tube(H). The stainless steel pipe(F) is also used as a counter electrode.

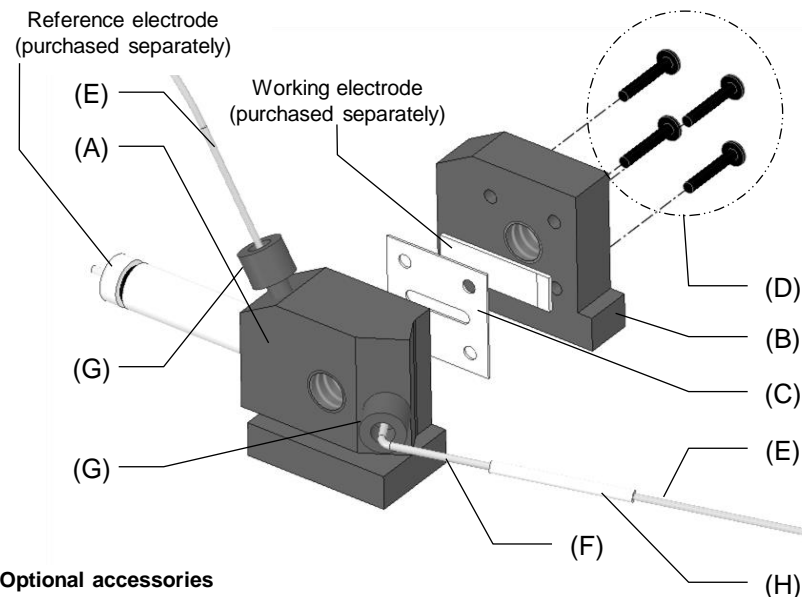
※ When installing the Fitting (PEEK) (G) on the flow cell, be careful not to overtighten the screw.

※ Put out the Teflon tube from the tip of the Fitting (PEEK) about 2mm when you connect them.



(4) A reference electrode (option) is attached to the position of Z, then the assembly is completed.

Please use a suction needle (I) instead of a Teflon tube for waste fluids when pump is not used.



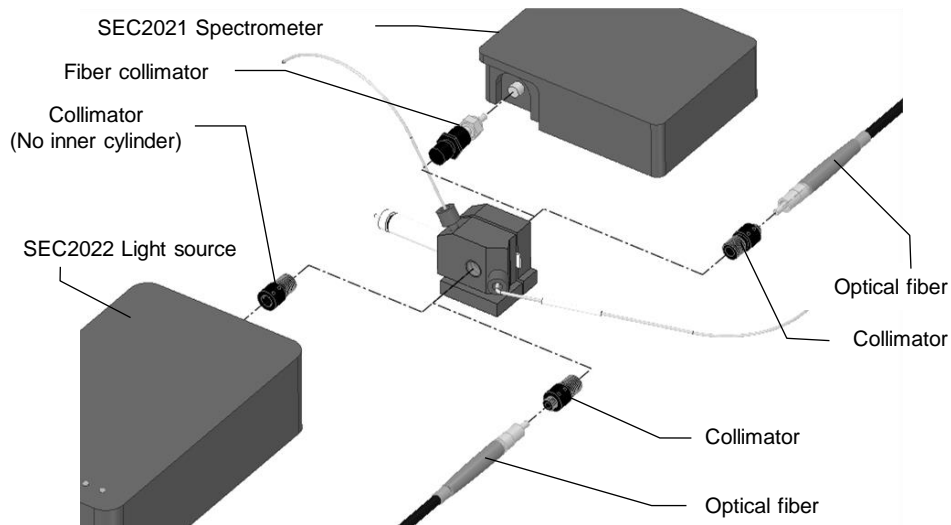
Optional accessories

- 013488 RE-3VT Reference electrode screw type (Ag/AgCl)
- 013489 RE-7VT Non Aqueous reference electrode screw type (Ag/Ag+)
- 012655 SEC-2F/3F Pt grid electrode for flow cell
- 012656 SEC-2F/3F Au grid electrode for flow cell
- 012657 SEC-2F/3F Carbon grid electrode for flow cell
- 012658 SEC-2F/3F ITO electrode for flow cell (4pcs)
- 012661 SEC-2F/3F S500 Silicone Gasket (4pcs)
- 012664 SEC-2F/3F T500 Teflon Gasket (4pcs)

We offer various of options.

BAS Inc.

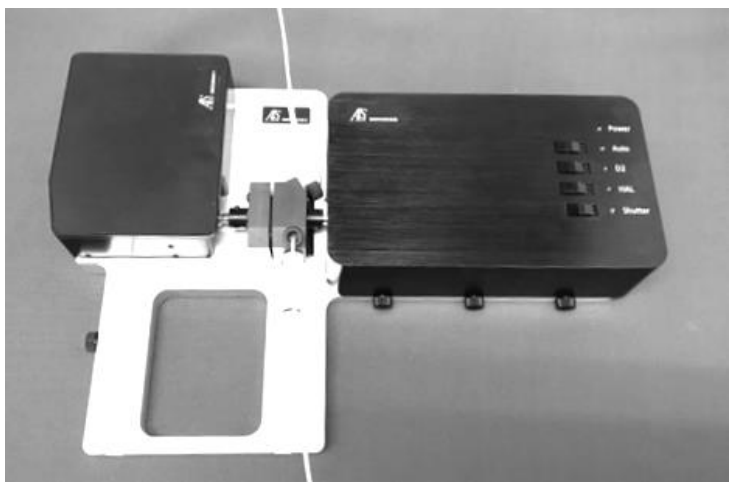
<https://www.als-japan.com> email: sales@als-japan.com



SEC-3F usage image

Optional accessories

- 013688 UV/VIS Collimating Lens, 200-2000 nm
 - 012667 SEC-2F/3F 400um Optical Fiber SR (25cm)
 - 012685 SEC-2F/3F 400um Optical Fiber SR (2m)
- We offer various of options.



SEC-3F embedded image (SEC 2020 spectrometer system)

2.How to Incorporate into SEC2020 Spectrometer system

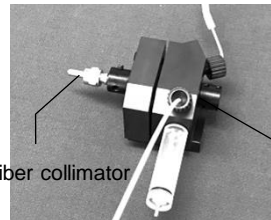


(1) Loosen the fixing screw of the SEC 2020 attached collimator with a hexagon wrench 0.89 mm.



Remove the inner cylinder and fix it on the flow cell block 1(A) side.

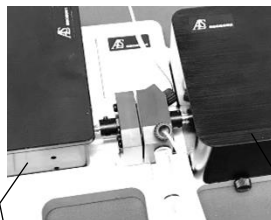
inner cylinder



(2) Fix the attached fiber collimator on the flow cell block 2(B) side.

Fiber collimator

Collimator

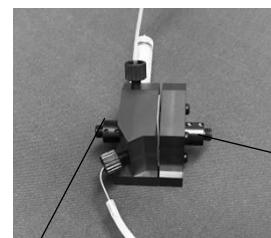


(3) Connect the fiber collimator and the spectrometer and set it on the platform. Insert the light source into the collimator from which the inner cylinder has been removed and fix it with the platform screw.

Spectrometer

Light source

3.How to connect using optical fiber



Fix collimators to both flow cell block 1(A) and flow cell block 2(B). Connect the optical fiber to the collimator.

Collimator

Collimator

Optical fiber

Optical fiber

BAS Inc.

<https://www.als-japan.com> email: sales@als-japan.com