



**HCELL1 with optional Pt plate counter electrode**

The H-Type Cell, HCELL1, consists of two glass cell which can be interconnected by a membrane or a permeation foil, which should be prepared by user. Each cell chamber may be filled with a different solution and they are linked together by a clamp. The volume of each cell is 1 liter and all wetted parts are made of chemically resistant materials such as Teflon, Pyrex and SUS 316.

The "standard" cell configuration consists of a flat specimen holder for working electrode, a graphite rod counter electrode or platinum flag type electrode, a reference electrode in a Luggin capillary and a gas bubbling tube.

The graphite rod counter electrode, platinum flag type electrode, flat specimen holder and a reference electrode should be ordered separately.

## Specifications

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### Dimensions

Cell Vial Volume	1 liter maximum * 2ea
Sample Volume	about 750 ml / each vial
Size	Approximately 14 cm diameter by 30 cm high including electrodes and adapters

### Cylindrical Sample Holder Material

Tube	Pyrex, Ø1/4"
Compression Gasket	Teflon®
Cylindrical Metal Sample	Steel

### Chemical Compatibility

Wetted Materials	Pyrex®, Teflon®
Non-Wetted Materials	Above, plus stainless steel and Viton®

### Graphite Counter Electrode (option)

Type	High density graphite rod
Size	6 mm diameter by 30 cm length

### Pt Flag Type Counter Electrode (option)

Pt Plate	Active Area : 5 cm <sup>2</sup> or 25 cm <sup>2</sup> , 0.2mm thickness
Length	150mm
Glass Tube Diameter	6mm
Rod Material	Brass

### Reference Electrode (option)

Type	SCE or Ag/AgCl reference electrode
Size	9 mm diameter OD & 4mm diameter OD

### Flat Specimen Holder (option)

Specimen Diameter	15.5mm ~ 22mm
Specimen Thickness	0.3~5.8mm

## Parts Included

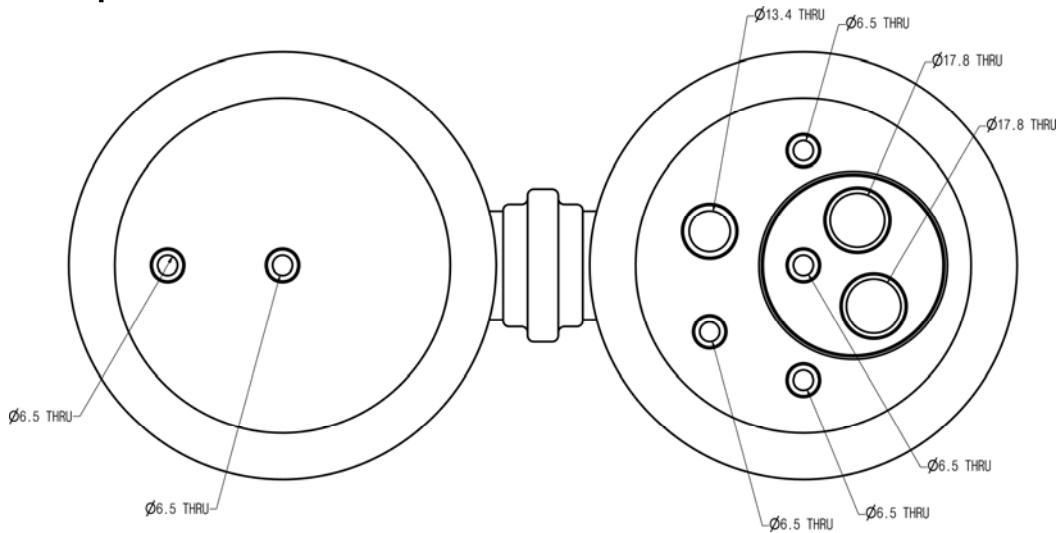
1. Cell Vial	Pyrex®, O-ring type beaker, 1L, Ø103(OD)*157(H), 2ea
2. Cell Clamp	Stainless steel
3. Clamp for connecting the half cells	Stainless steel
4. Luggin Capillary	Pyrex®
5. Bubbler Adapter Gas Inlet	Pyrex®
6. Cell Top	Teflon®
7. Cylindrical Metal Sample & Tube	Steel / Pyrex® tube, Ø6.35* Ø4.35
8. Other miscellaneous such as stopper / O-ring	MC Nylon® / Viton®

## Optional Items

1. Flat Specimen Holder	FSH2
2. Graphite Counter Electrode	GR002
3. Pt Plate/Mesh Counter Electrode	PFL5/PFL9/PFL16/PFL25 depending on active area (5cm <sup>2</sup> /9cm <sup>2</sup> /16cm <sup>2</sup> or 25cm <sup>2</sup> ) PFL25M (mesh type, 80 mesh)
4. Ag/AgCl Reference Electrode	1004
5. Saturated Calomel Reference Electrode	1001

(Please contact us for other replacement parts.)

## Cell Top



**Flat Specimen Holder, FSH2**



**Pt Flag Type Electrode, PFL**



**Saturated Calomel Reference Electrode, 1001**



**Ag/AgCl Reference Electrode, 1004**



**Graphite Rod, GR002**



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