

SenCell[™] High Sensitivity Flow Cell for ECD

- Highest sensitivity
- Adjustable Spacer Technology (AST)
- No spacer or gasket
- Fast stabilization

The SenCell is a new generation electrochemical flow cell specifically designed for highest sensitivity. The tool free assembly and the continuously adjustable working volume guarantee ease of use and fast stabilization. The volume of the cell is small and can be adjusted between 0 and 300 nL. In addition, the cell can withstand a pressure of several bars, making the cell ideally suited for use in UHPLC with Electrochemical Detection (ECD).

Highest sensitivity

To realize the highest detection sensitivity, the cell design is based on the confined wall-jet principle. A three-electrode configuration is used consisting of working electrode (WE), reference electrode (REF) and auxiliary electrode (AUX). The AUX is kept at precisely the same potential as the reference electrode via a voltage clamp, compensating for any polarization effects that might occur at the electrodes. In addition, utmost care has been devoted to the quality and finishing of the electrode material so that the highest sensitivity with fast stabilization is achieved, making the cell ideally



suited for ultra-trace analysis in (U)HPLC, Microand Capillary LC/ECD.

Adjustable Spacer Technology (AST)^[1]

The new design is using Adjustable Spacer Technology (AST), the use of polymeric gaskets (spacers) is now obsolete. To adjust the spacer (cell volume), simply turn the cell with an adjustment key (which is provided) from the present position to the desired position e.g., "2" to "1". The spacer is adjusted to achieve highest detection sensitivity (signal-to-noise ratio). [1] Patent pending

Adjustment of the spacer

Adjustment of the spacer from position 2 (left side) to 1 (right side). Simply turn the cell bottom counter clockwise with the provided adjustment key.



Robust Applications, fluidly running

SenCell™

- Chromatograms -

Chromatograms of 100 nM standard of catecholamines with adjustment of the SenCell spacer from position 3 to 0.5, corresponding to approx. 300 and 25 nL working cell volume, respectively.





Ease of use

The tool free, easy-lock screw assembly allows for fast (dis-)assembly. Furthermore the Adjustable Spacer Technology (AST) guarantees for highest sensitivity (S/N) and fast stabilization.

Reference electrodes

The SenCell is available with 3 different color coded reference electrodes that can be easily exchanged to fit any application.

- HyREF (Pd/H₂) black
- ISAAC (In Situ Ag/AgCI) green
- Salt Bridge (Ag/AgCl) blue



Specifications SenCell[™]

116.4320

Three electrode, wall-jet flow cell
0 - 300 nL (adjustable)
approx. 0.5 mL
2 mm
Glassy Carbon
SB (Salt bridge Ag/AgCl), ISAAC (In-situ Ag/AgCl), HyREF™ (Pd/H₂)
Stainless steel
PCTFE, Glassy Carbon, Stainless steel, PEEK, Silicone, REF material (Pd or Ag and AgCI)
5 bar / 73 psi
1/16" o.d. PEEK tubing, with 10-32 PTCFE fingertight connections
Cell cable for use with electrochemical detector
Description
Description
SenCell 2 mm GC salt bridge (sb)
SenCell 2 mm GC ISAAC

SenCell 2 mm GC HyREF

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