

Thermo Scientific Dionex 6041RS ultra Analytical Cell

Amperometric electrochemical cell for UHPLC/HPLC

The compact Thermo Scientific™ Dionex™ 6041RS ultra analytical cell is a thin-layer amperometric electrochemical sensor designed for use with the Thermo Scientific™ Dionex™ UltiMate™ 3000 Electrochemical Detector.

The 6041RS ultra Analytical Cell

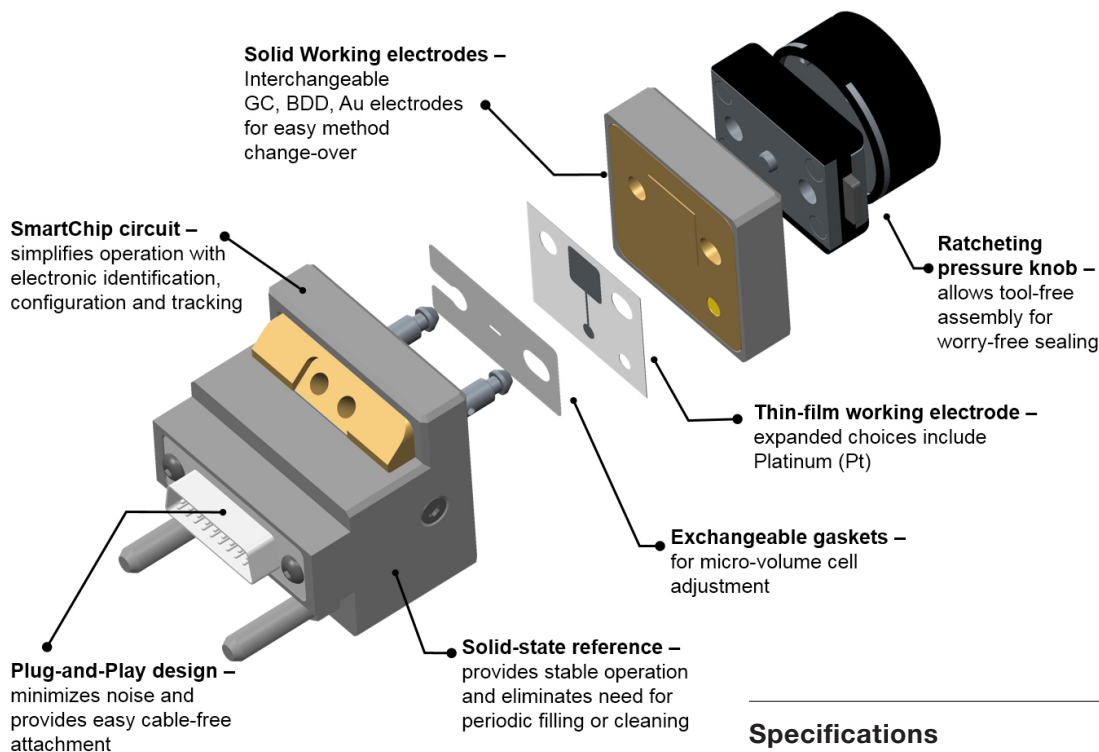
This compact ultra-low volume, thin-layer amperometric cell has a flow geometry for utmost performance with conventional and ultra-fast LC. The unique solid-state reference electrode eliminates the need for special filling solutions, periodic cleaning or replacement. The cell's design permits tool-free exchange of working electrodes of Glassy carbon (GC), Gold (Au) and boron-doped diamond (BDD), as well as thin-film style Platinum (Pt) electrode. This wide selection extends the capability and potential range for measurement of a wide selection of analytes.

Introducing SmartChip Technology

This sensor design incorporates SmartChip™ technology for automatic recognition by the Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS) software, which configures the detector with safe, established detection parameters. The SmartChip aids in electronic tracking for method validation and to prevent unintended sensor damage.



UHPLC⁺
focused



Ordering Information

Product	Cat. No.
6041RS ultra Amperometric Analytical Cell for ECD-3000RS detector (without working electrode) <i>Includes: assembled cell, 2 gasket sets (25 and 50 nL), waste line</i>	6070.3000
Working electrode, glassy carbon, high efficiency, for 6041RS cell	6070.3200
Working electrode, gold, for 6041RS cell	6070.3200
Working electrode, boron-doped diamond, for 6041RS cell	6070.3100
Replacement cell gasket, BoPET, 25 nL volume, pkg/5, for 6041RS cell	6070.2528
Replacement cell gasket, BoPET, 50 nL volume, pkg/5, for 6041RS cell	6070.2529
Thin-film Working Electrode Kits	
Thin-film electrode kit, Platinum (Pt) for 6041RS ultra Amperometric cell	6070.3510
Contains: Thin-film electrode adapter	6070.3005
Thin-film electrode, Platinum, 2 ea	6070.3500

Specifications

Design	Thin-layer, micro-volume, single channel
Working Electrodes	Interchangeable: Glassy carbon (GC) (high efficiency), Gold (Au), Boron-doped Diamond (BDD), Platinum (Pt)
Potential Range	+/- 3300 mV (vs. Pd) – optimum range determined by working electrode material used
Useable Flow Rate	Up to 1.0 mL/min (optimum flow rate determined by application/mobile-phase composition)
Operating Pressure	13.8 bar (200 psi, 1.38 MPa) maximum (at the inlet)
Internal Volume	Volume is dependent on which exchangeable gasket is used
Wetted Materials	PEEK™, Palladium, BoPET, polyethylene naphthalate (PEN)
Fluid Connections	Inlet/Outlet: 10–32 female port (Thermo Scientific™ nanoViper™ Fingertight Fittings inert fused-silica compatible)
Parametric Control	Automatic parameter configuration through Chromleon CDS software via SmartChip cell recognition. The SmartChip identifies and records sensor type and usage parameters.
Operating Temperature	10–45 °C (50–113 °F), 18% to 80% RH, non-condensing
Solvent Compatibility	Compatible with typical reverse- and normal-phase compositions
Size	41(H) × 45(W) × 86(D) mm (1.6 × 1.8 × 3.4 in.)
Weight	162 g (5.7 oz)
Warranty	90 days when used as per operating instructions

Find out more at thermofisher.com/ECdetection

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