Reagent-Free Ion Chromatography (RFIC™) Systems Deliver Superior Results
Dionex IC technology has evolved over many product generations, each providing enhanced performance, greater reliability, and easier operation.

Reagent-Free™ IC eliminates daily tasks of eluent and regenerant preparation, saving time, preventing errors, and increasing convenience.

RFIC-EG systems use electrolytic technologies to generate eluent on demand from deionized water, and to suppress the eluent back to pure water. They deliver unmatched sensitivity and the separating power of gradient IC, all with “just add water” convenience.

Capillary IC takes convenience to a new level. Using only 5L of eluent per year, and needing no service or calibration for months at a time, a capillary ICS-5000 is always ready to run samples. It’s the world’s first IC that enables true walk-up analysis on demand.

RFIC-ER systems use electrolytic technologies to suppress the eluent prior to detection, and to continuously regenerate eluent from the column effluent. With RFIC-ER, you can run routine applications for a month on a single batch of eluent.

ICS-5000 Modular RFIC-EG System
The world’s most advanced IC system provides unmatched capability, flexibility, and convenience. Available in single or dual configurations in analytical-scale and/or capillary formats, and with a broad selection of detectors, the Dionex ICS-5000 provides optimum performance for any IC application.

Key Features:
- Modular design adapts to diverse and changing analytical needs
- RFIC-EG, plus quaternary gradient proportioning and vacuum degasser, provides ultimate eluent flexibility
- Extremely precise temperature control dramatically reduces noise and drift

ICS-2100 RFIC-EG System
This compact integrated Dionex IC makes its own eluent from deionised water. Just add water, and get excellent results for a wide range of conductivity-based methods using isocratic or gradient elution.

Key Features:
- Compact design conserves bench space while providing easy access to fluidics
- Touchscreen LCD display allows convenient front-panel control
- Integrated eluent generator produces precise gradients on demand – just add water!
- Column heater reduces noise and drift more capabilities. new possibilities.
**ICS-1600, ICS-1100 RFIC-ER Systems**
Compact, integrated Dionex ICs provide good performance for common conductivity-based IC methods.

**Key Features:**
- Compact design conserves bench space while providing easy access to fluidics
- Touchscreen LCD display allows convenient front-panel control (ICS-1600)
- RFIC-ER option allows continuous operation for up to a month using a single bottle of eluent
- Column heater reduces noise and drift (ICS-1600)
- Electrolytic suppression effortlessly improves signal/noise ratio
- Support for standard-bore and microbore formats offers flexibility
- Optional vacuum degasser saves labour and prevents cavitation (ICS-1600)

**ICS-900 Basic IC System**
This compact, entry-level unit delivers good performance for basic Dionex IC applications using manually prepared eluents.

**Key Features:**
- Compact design conserves bench space while providing easy access to fluidics
- Displacement Chemical Regeneration suppression provides low noise and stable baselines
- Support for standard-bore and microbore formats offers flexibility
- Optional external column heater reduces noise and drift
Autosamplers
A selection of Dionex IC autosamplers, all with metal-free flow paths, supports diverse application and budgetary requirements.

AS-AP: This high-performance autosampler provides increased sample capacity, fast injection times, maximum precision, and broad application flexibility. Inject from vials and/or wellplate positions in any desired order, automate sample preparation, and deliver samples to one or two instruments.

AS-DV: This economical autosampler automatically filters samples as it delivers them. It supports 5mL and/or 0.5mL vials, and can load sample onto an injection loop or concentrator column.

AS-HV: This versatile autosampler supports a wide range of sample containers, and is ideal for applications involving trace-level contaminants in high-purity water.

Eluent Generation Cartridges (EGC III)
The EGC III cartridge generates high-purity hydroxide, carbonate, or methanesulfonic acid (MSA) eluents electrolytically. Stop spending time manually preparing eluents. With EGC, you just add water.

Key Features:
• Simplified operation; no need to prepare eluents or regenerants
• Improves analytical reproducibility, day-to-day, week-to-week, month-to-month
• Ensures system-to-system reproducibility and lab-to-lab consistency
• Achieves sensitive results with pure, uncontaminated eluent
• Eliminates errors and variability associated with manual eluent and regenerant preparation

Self RegeneratingSuppressor (SRS)
Suppression works two ways to achieve the absolute best sensitivity and corresponding lowest detection limits for inorganic analyses; it increases analyte signal while simultaneously decreasing background signal and noise. The SRS 300 supports virtually all analytical scale ion chromatography applications for both anions and cations.

Key Features:
• Low background noise levels
• Fast startup equilibration times
• Trace anion and cation determinations
• Compatibility with mass spectrometry detection
• Compatibility with all Dionex ICS and DX chromatography modules
• A three-fold increase in backpressure tolerance compared to previous generations
Continuously Regenerated Trap Column (CR-TC)
Designed for eluent generators in RFIC systems, CR-TC columns remove all anionic or cationic contaminants in the eluent continuously and provide very low baseline drift during gradient operations.

Key Features:
• Generates contaminant-free deionized source water and eluent
• Time savings—no need to perform regeneration off-line
• Very low baseline drift for improved integration and increased sensitivity
• Increased productivity; quality data soon after startup
• Removal of carbonic acid contaminants from source water
• Compatibility with Capillary RFIC-EG systems

Carbonate Removal Device (CRD)
The Carbonate Removal Device (CRD) removes carbon dioxide from the suppressed eluent stream by diffusion through the walls of a gas permeable membrane. With carbonate eluent systems, it reduces background signals to nearly the same levels as those of hydroxide eluents.

Optimized for the removal of carbonate from hydroxide eluent systems:
• Improves quantitation by minimizing carbonate
• Lowers backgrounds, providing higher sensitivity
• Eliminates carbonic acid, increasing the linear range

IonPac® Chromatography Columns
At the heart of Dionex ion chromatography is a unique set of column chemistries that provide high selectivities and efficiencies with excellent peak shapes.

Hydroxide-Selective Anion-Exchange Columns: For isocratic and gradient separations with a wide range of capacities and selectivities

Carbonate Eluent Anion-Exchange Columns: Provides well-characterised isocratic separations for regulated drinking water and wastewater methods

Cation-Exchange Columns: Available in a wide range of capacities and hydrophobicities for isocratic and gradient applications

Ion-Exclusion Columns: Allows separation of weak acids—with strong acids eluting in the void