Key Features

- Simple and intuitive analysis
- Specifically designed for Carbonate anions analysis
- Integrated tabletop systems with automatic injection system
- Partial loop injection
- Automatic calibration
- Reliable performance
- Metal-free flow paths
- Full control by PC
- Powerful data analysis software

Specifications

Conductivity Measuring Rang	up to 20000µS/cm at 20 - 1 Hz, sample frequency, Auto zero function for the entire measuring range, Noise: 0.1 nS/cm
Suppression	Optional Electrolytic Auto-Suppressor
Column Oven Temperature	30 °C- 90 °C
Two pumps	Isocratic Pump (analytical, non-metal - Peek version), Pressure Range: 40-0 MPa (6000-0 PSI), Flowrate: 10 – 0.001 ml/min
Degasser	Integrated vacuum degasser
Injection System	Automatic dual needle design to avoid system blockage with wash program and Programmable Injection Volume: 999.9 - 0.1 µ in increments of 0.1 µl, Sample Capacity: 120 samples (1.5ml), Sample Loop: 100 µ, Carry Over: < %0.05
Including	• IC column for determination of anions • Cationic guard column • Clarity Chromatography Software

Innovative Scientific Solution

Alkalinity Analyser

The Alkalinity Analyser from ISS based on Ion-exclusion chromatography (IEX) is a specialized instrument designed to detect and quantify carbonate anions in water. IEX is defined as a technique used to separate weak acids, amino acids, sugars, alcohols and other substances on an ion-exchange column. Because of Donnan exclusion (a pseudo-semi-permeable membrane around the ion-exchange resin), ionic material is excluded from the ion-exchange resin and passes quickly through the column. The strongest acids elute at the column void volume because they are highly ionized and are repelled by the immobilized negative charge of the resin. Weaker acids exist largely in the unionized molecular form and are separated by partitioning between the mobile phase and the occluded solvent.

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