

Reagent-Free HPIC System



Thermo Fisher Scientific Inc. introduced the Thermo Scientific Dionex ICS-5000+ Reagent-Free HPIC designed to elevate ion chromatography separation capabilities to new levels of resolution, speed and flexibility. The system is designed to operate at continuous pressures up to 5,000 psi at analytical flow rates and extend the benefits of high pressure ion chromatography to standard bore and microbore, as well as capillary format separations. High backpressure tolerance is intended to let users increase flow rates to maximize throughput while still providing the advantages of electrolytic eluent generation and suppression. The system features a proprietary all-PEEKTM polymer flow path for metal-free inertness with the strength to operate continuously at 5,000 psi. The system can use the new high-efficiency 4 μm -particle-size IC columns at high pressures, which may enable users to discover peaks they have been missing. As with prior Dionex IC systems, this is a Reagent-Free system that uses deionized water to electrolytically generate high-purity eluents. This can help save time and operating costs, enhance reproducibility, minimize labor and limit contamination. The platform's flexibility is enhanced by the wide variety of modules available, providing many system configuration options. The system supports a wide range of detectors, including suppressed and non-suppressed conductivity,

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electrochemical, UV-vis and mass spectrometry. For simultaneous analyses of two samples or two-dimensional analyses of a single sample, the system includes two channels that can be configured in a variety of ways, including standard bore/microbore, capillary/capillary and standard bore/capillary format.

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