



The Reagent-Free Controller is for use with DX-120, DX-320, DX-500, DX-600, or ICS-2500 ion chromatography systems, enabling you to experience the ease of use, cost savings and simplicity that Reagent-Free IC offers.

Reagent-Free IC is the powerful combination of Dionex “Just Add Water” eluent-generation technology, plus electrolytic suppression and the continuously regenerated trap column (CR-TC). Reagent-Free IC eliminates variability and potential contamination, providing a stable baseline, higher sensitivity, resolution, and maximum reproducibility. Reagent-Free IC greatly reduces the complexity of an IC system, allowing you to focus on what matters—your application and results. Reagent-Free IC is available exclusively from Dionex.

Components of Reagent-Free IC

- Automated Eluent Generation—eliminates the need to hand-prepare eluent.
- Self-Regenerating Electrolytic Suppression—frees you from manual suppressor regenerant preparation, allowing continuous operation with less maintenance.
- Continuously Regenerated Trap Columns—no need to regenerate the trap column off-line. The CR-TC is continuously regenerated in-line.

Product Highlights

RFC-30

- The RFC-30 is a stand-alone controller designed for use with older Dionex instrumentation. The RFC-30 generates the electrolytic eluents, controls the suppressors (AES® and SRS®), and controls the CR-TC used in Reagent-Free IC.
- Electrolytic eluent generation delivers hydroxide eluents for anion separations and methanesulfonic acid eluents for cation separations.
- Both isocratic and gradient separations are routine with electrolytically generated eluents.
- Stand-alone instrument (no software required), permitting at-instrument control.
- Automatic calculation of suppressor current and limits to provide recommended current for AES or SRS.



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- Zero-pump-flow safety feature to protect AES or SRS, EG, and CR-TC.
- Easy-to-use front-panel control that provides convenience and simplicity.
- Supplies current in 1 mA increments to AES or SRS.
- Supplies current to EGC II KOH or EGC II MSA for eluent concentration of 0.1 to 100 mM.
- Supplies current to CR-TC.

Product Highlights

RFC-10

- The RFC-10 is a stand-alone controller that can be used to control the suppressors (AES and SRS) that are used in Reagent-Free IC. The RFC-10 does not have the capability to produce electrolytically generated eluents. The RFC-30 must be used for eluent generation.
- Stand-alone instrument (no software required), permitting at-instrument control.
- Zero-pump-flow safety feature to protect AES or SRS.
- Easy-to-use front-panel control that provides convenience and simplicity.
- Supplies current in 1 mA increments.
- Compatible with DX-120, DX-320, DX-500, DX-600, or ICS-2500.

SPECIFICATIONS

Eluent Generation

Concentration range:
0.1–100 mM

Flow rates:
0.01 to 3.00 mL/min

Maximum operating pressure:
21 MPa (3000 psi)

Maximum solvent concentration:
Cations: No solvent
Anions: 25% methanol

Suppressors

AES
Voltage Range: 0–150 mA

SRS
Voltage Range: 0–500 mA

Continuously Regenerated Trap Columns (CR-TC)

Current Range: 24 V

TTL Inputs:

Two independent 0–5 V
TTL inputs: 0 V = On, 5 V = Off
AC Control

Dimensions (h × w × d):
12.38 × 16.21 × 28.80 cm
(4.88 × 6.38 × 11.34 in.)

Weight:
2.495 kg (5.5 lb)

Power Requirements:
Consumption: 500 VA max.
Voltage: 100–240 V ac
Frequency: 50/60 Hz

Operating Temperature Range:
4–40 °C

Operating Humidity Range:
5–95% relative, noncondensing

ORDERING INFORMATION

To order, use the following part numbers and contact your local Dionex office or distributor nearest you. In the U.S., call (800) 346-6390. In other regions, refer to the phone numbers below.

Description	Part Number
RFC-30 Reagent-Free Controller only (must order EGC cartridge and CR-TC separately).....	060337
RFC-30 Reagent-Free Controller with EGC II KOH Cartridge and CR-ATC Continuously Regenerated Anion Trap.....	060667
RFC-30 Reagent-Free Controller with EGC II MSA Cartridge and CR-CTC Continuously Regenerated Cation Trap.....	060668
RFC-10 Reagent-Free Controller.....	060335
EluGen II Hydroxide Cartridge (EGC II KOH)..... (Replaces P/N 053921)	058900
EluGen II Methanesulfonic Acid Cartridge (EGC II MSA)..... (Replaces P/N 053922)	058902
CR-ATC Continuously Regenerated Anion Trap Column.....	060477
CR-CTC Continuously Regenerated Cation Trap Column.....	060478

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Dionex Corporation

1228 Titan Way
P.O. Box 3603
Sunnyvale, CA
94088-3603
(408) 737-0700

North America

U.S. (847) 295-7500
Canada (905) 844-9650

South America

Brazil (55) 11 3731 5140

Europe

Austria (43) 1 616 51 25 Benelux (31) 20 683 9768 (32) 3 353 4294
Denmark (45) 36 36 90 90 France (33) 1 39 30 01 10 Germany (49) 6126 991 0
Ireland (353) 1 644 0064 Italy (39) 02 51 62 1267 Switzerland (41) 62 205 9966
United Kingdom (44) 1276 691722

Asia Pacific

Australia (61) 2 9420 5233 China (852) 2428 3282 India (91) 22 2764 2735
Japan (81) 6 6885 1213 Korea (82) 2 2653 2580 Singapore (65) 6289 1190
Taiwan (886) 2 8751 6655

www.dionex.com



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