

Product Datasheet

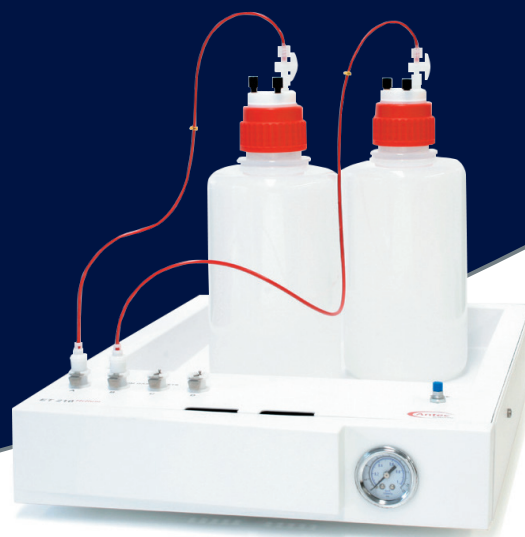
Logi-CHROM

Helium Eluent Tray ET 210

The Logi-CHROM ET 210 eluent tray enables you to blanket all your LC mobile phases with an inert Helium gas atmosphere in a user-friendly and easy way.

An atmosphere of inert gas in the solvent bottle prevents diffusion of air into the mobile phase and will keep it free of CO₂ and O₂. Especially in carbohydrate analysis using Anion Exchange Chromatography (HPAEC) based on separation with strong alkaline eluents, dissolved CO₂ can be problematic. Under these circumstances (pH > 12), CO₃²⁻ ions can be easily formed in the mobile phase, causing variations in retention times, decrease in column selectivity and loss in resolution.

Keeping the mobile phase free of carbonate is one of the key factors towards reproducible carbohydrate analyses via Anion-Exchange Chromatography. The ET 210 is the perfect choice to keep your mobile phase 'carbonate-free'.



Sparging and blanketing

Besides Helium sparging mode during the preparation of mobile phases the ET 210 can also be used for Helium blanketing during LC separation. Therefore, the bottles are kept closed airtight and pressurised with a small overpressure. No gas is flowing out, thus saving expensive He.

For sparging the ET 210 is equipped with a flow control valve for adjustment of the Helium gas flow rate, enabling controlled sparging. A dedicated sparging line is supplied for easy sparging of the mobile phase bottles.

For blanketing the flow regulator is pre-set at the factory on a low gas flow rate. The flow rate can be adjusted by means of the blue adjustment knob. The flow regulator has a locking nut (indicated with the black arrow). The locking nut can be used to set/fix the flow rate for Helium blanketing.



Flow regulator valve with pressure gauge displaying the actual He pressure in psi and bar.

Mobile phase line



Helium line

PPCO bottle assembly with quick connectors for mobile phase and He line.

Four channels

The ET 210 has four Helium gas outlets on the top-front side of the tray, facilitating up to 4 mobile phase bottles which can be independently kept under inert gas atmosphere (blanketing). Enabling isocratic up to quaternary gradient elution with carbonate-free mobile phases. Optional up to 6 channels/ solvent bottles can be blanketed individually.

Mobile Phase Bottles

LabLogic supplies the pressure and gas resistant plastic PPCO bottle assembly with all parts for easy installation and immediate use. The bottles must be ordered separately.

Specifications

General	
Dimensions (Housing only)	54 (D) x 37 (W) x 11 (H) cm 21.3" (D) x 14.6" (W) x 4.3" (H)
Operating Conditions	Temperature range: 10 - 35 °C (50 – 95°F)
Weight	3.8 kg (8.4 lbs)
Format	Stackable on P6.1L or AS 6.1L
Capacity	4 x 2 L PPCO eluent bottle, or optional 6 x
Intended Use	Sparging system and eluent pressurisation (blanketing)
Suitable Gas Source	Helium 5.0, other usable gases N2 or Ar

Pneumatics – Inlet	
Connector	4 mm push-in connector
Inlet Tubing	3/32" ID x 5/32" OD Polyurethane 95A shore (3 meters)
Operating Pressure Range	1 - 5 bar (15 - 73 psi) optimal operating pressure : 2 - 3 bar
Max. Pressure	5 bar / 73 psi (from laboratory Helium source)

Pneumatics – Outlet	
Connectors (4 channels)	4 x valved 'quick connect' socket for 1/8" tubing
Outlet Tubing	1/16" ID x 1/8" OD Polyurethane 85A shore (to mobile phase bottles)
Operating Pressure Range	0.2 - 0.4 bar (3 - 6 psi), depending on inlet pressure
Pressure Safety	Pressure relief valve opening at 0.7 bar/10 psi
Max. Pressure	0.4 bar/6 psi
Flow Rate	Adjustable using manual flow regulator valve

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