

EDP 7000 / EDP 9002 - Electro deposition device



The EDP 7000 / EDP 9002 has been designed to enable to prepare environmental samples prior to using Alpha spectrometry to analyse the sample.

The advantage of the EDP7000/EDP 9002 is that consistent sample preparation is achieved ensuring uniformity of deposition, assured sample collection efficiency providing repeatable results which is a pre-requisite of today's modern environmental laboratory.

Users include: Environmental and medical research laboratories, Defense, Civil Nuclear facilities, private research laboratories and the pharmaceutical industries.

100% deposition of alpha activity within the sample

Rugged design, easy to use and easily decontaminated

Repeatable and reliable results

Electrochemical stripping of the sampling disc

Cooling of the electrolyte solution

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Principle

A sample solution is placed in a stainless steel planchet (cathode), a platinum electrode (anode) is placed in a sample solution. The electrode is rotated within the solution, a stabilised current is passed through the sample via the anode electrode. The result is the galvanic deposition of the present alpha emitters on to the surface of the planchet.

The system is available in two versions –

Single sample: EDP 7000 - Dual sample: EDP 9002

Each channel of the EDP9002 system operates independently and provides the same efficiency of the EDP7000. The key advantage is saving space with the laboratory.

Technical features

EDP 7000: Single channel

Dimension: 245 X 650 X 255 mm

Weight: 7 kg.

Power: < 200 Watts

EDP 9002: Dual channel

Dimension: 325 X 650 X 325 mm

Weight: 13 kg.

Power: < 400 Watts

Electrode: Platinum disc electrode on a height-adjustable mast (possible adaptation to other electrodes).

Current regulation: Stabilized current, adjustable from 0,1A to 5A. Resolution 10mA.

Electrode rotation speed:
User configured from 60 to 6000 rpm.

Passive Timer: Settable from 1 minute to 9 hours 59 with buzzer.

Ventilation: Cooling system of the cell at 200 litres/min in standard flow.

Optional high flow ventilation system for a faster cooling.

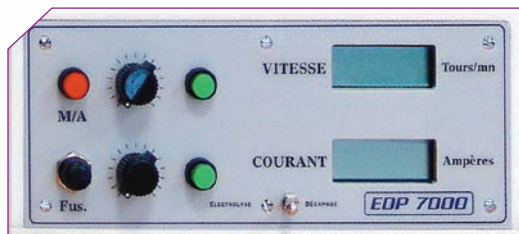
Flask, disc, flask-holder: To ensure a uniform deposit, the disc is placed between the flask and the flask holder. This system guarantees a secure retention.

Two sizes are available:

20CC flask volume on diameter 19,6 mm disc.
50CC flask volume on diameter 24,5 mm disc.

Sets of flasks or discs are available on request.

Power supply: 230 volts / 50 Hz.



EDP 7000



EDP 9002