

## ELECTRODEPOSITION SYSTEMS EDP7000/9002

*Extraction of metallic elements from aqueous solutions*

### EDP 7000

Single-station electrodeposition system



### EDP 9002

Double-station electrodeposition system



### DESCRIPTION

EDP 7000/9002 electrodeposition systems enable the sampling of metallic elements (radioisotopes for example) from aqueous solutions. The system consists of a platinum electrode (anode) immersed in a vial containing the aqueous solution and a stainless-steel disk (cathode) placed at the bottom.

The electrodeposition of the metal ions of the solution on the stainless-steel disk is done by applying a direct, regulated, and constant electric current between the two electrodes.

### AVANTAGES

- EDP 7000/9002 are made of corrosion-resistant materials for more durability in extreme conditions.
- Ergonomic vial/disk/vial-holder set, ensuring quick and easy assembly and sample recovery.
- Cooling system limiting the aqueous solution evaporation due to exothermic redox reaction.
- Special integrated container designed to recover liquids in case of accidental leaks, with the possibility of emptying without dismantling the electrodeposition device.
- Rotating platinum electrode to ensure the homogeneity of the solution during sampling.

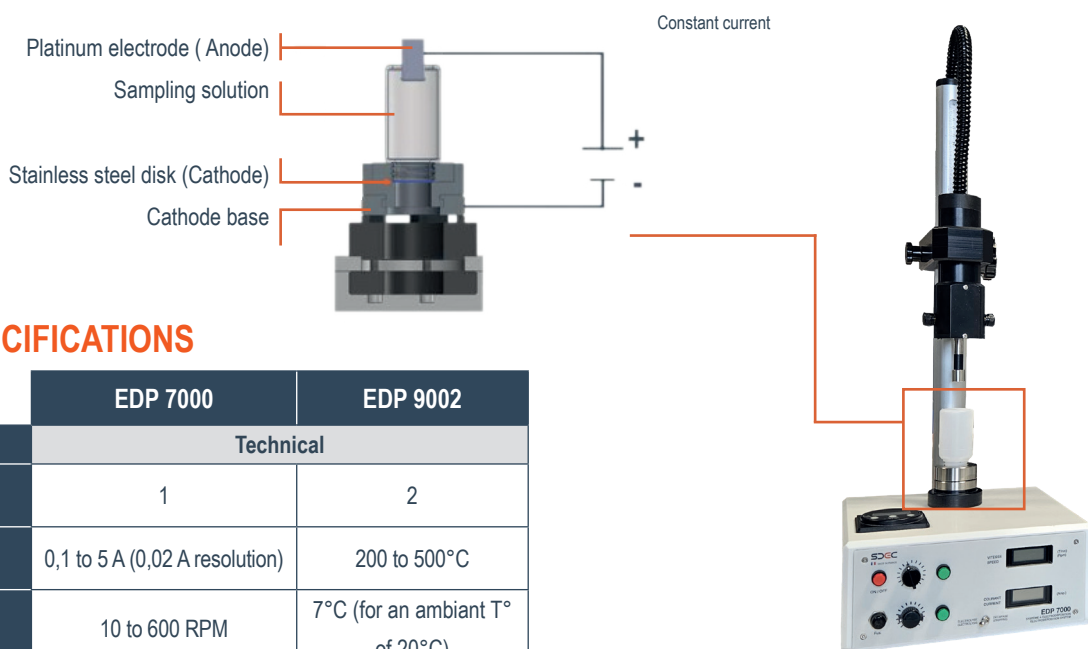
# ELECTRODEPOSITION SYSTEMS EDP 7000 / 9002

Extraction of metallic elements from aqueous solutions

## FEATURES

- Electrodeposition current: regulated and adjustable direct current from 0.1 to 5 A with a resolution of 0.02 A. It also has a polarity inversion system for electro-chemical stripping of the stainless-steel disk.
- Electrode rotation speed: Adjustable from 10 to 600 RPM.
- Passive timer from 1 minute to 9 hours with digital display and alarm buzzer.
- Cooling system with a high-flow ventilation of 1000 liters/min.
- Electrode height adjustment using integrated graduated ruler.

### Electrodeposition system



## TECHNICAL SPECIFICATIONS

	EDP 7000	EDP 9002
	<b>Technical</b>	
Number of stations	1	2
Electrodeposition current	0,1 to 5 A (0,02 A resolution)	200 to 500°C
Rotation speed	10 to 600 RPM	7°C (for an ambient T° of 20°C)
Polarisation inversion	Yes	
	<b>Environment</b>	
Operating T°	0 to +45 °C	
Storage T°	-25 to +60 °C	
Display	Backlit LCD screen	
	<b>Mecanical</b>	
Footprint L x H x D (mm)	245 x 650 x 255	325 x 640 x 370
Weight	7 kg	10 kg
	<b>Electrical</b>	
Power supply	230V 50Hz (available in 110V 60Hz)	
Electric protection	3,15 A delayed fuse	
Maximum power (Watts)	100	200

Consumables	
20 ml vials (x100)	245920003
50 ml vials (x100)	245920002
Stainless-steel disks 316L Ø 19,6 mm for 20ml vials (x100)	245920001
Stainless-steel disks 316L Ø 19,6 mm for 20ml vials (x100)	245920004

Accessories	
Platinum electrode	0340301
Stainless-steel vial-holder for 20 ml vials	0324004
Stainless-steel vial-holder for 50 ml vials	0324403

### SDEC France

Siège social Reignac-sur-Indre - 02 47 94 10 00

Agence sud Rousset

info@sdec-france.com

[www.sdec-france.com](http://www.sdec-france.com)