



Lab Electrosinning Unit ES206

- ✓ Dual syringe pump
- ✓ Collector interchangeable
- ✓ Auto distance adjuster
- ✓ Advanced safety features
- ✓ Reliable performance
- ✓ Modular design
- ✓ Touch screen interface
- ✓ Non-volatile memory
- ✓ Easy use and maintenance



Model ES206

The ES206 Lab Scale Electrosinning Unit is a dual-syringe pump electrospinning system for researchers whose work require the simultaneous use of two different materials or operating parameters to produce nanofibers or nanowires. Both electrospinning and electrospaying processes can also be carried out at the same time using this unit.

The unit consists of robust painted metal frame, a high voltage power supply, a syringe pump, a rotary collector and a microcontroller system. All experimental parameters including injection rate of polymer solution, working distance, rotating speed of collector drum, scanning speed of spinneret and working temperature are controlled through a touch-screen interface.

The ES206 Model has a modular design (changeable high voltage power supply and collector type) that provides flexibility for wider applications. The unit comes with safety features for safe operation and an easy general maintenance procedure.

APPLICATIONS

- ✓ Air and liquid filtration
- ✓ Tissue engineering
- ✓ Drug delivery
- ✓ Implant materials
- ✓ Wound dressing
- ✓ Solar cell
- ✓ Fuel cell
- ✓ Supercapacitor
- ✓ Protective clothing
- ✓ Cosmetics
- ✓ Oil - water separation
- ✓ And many more...



Lab Electrospinning Unit ES206

Specifications*

General	
Input power	100-240VAC/50-60 Hz
Ventilation	Motorized fan to remove solvent from the chamber
Heating system	Room temperature up to 45°C
Heater	1000W, 4A
Safety	Auto cut off high voltage when door opened, grounding problem, or process disruption
Dimensions (LxWxH)	131 x 80 x 96 cm
Weight	150 kg

Collector	
Type	Rotary drum and easily attachable plate collector
Material	Stainless steel
Rotation speed	300-3000 rpm
Spinning distance	5-20 cm
Size	Drum: 8(\emptyset) x 30(L) cm Plate: 25(L) x 20(W) cm
Optional collectors	Wire collector and Mandrel collector

Spinneret	
No. of attachable needles	Up to 4 syringes
Scanning rate	0-2100 mm/min
Scanning range	0-27 cm
Syringe pump injection rate	0.01 ml/h to 500 ml/h
Usable syringe size	1-25 mm (ID)
Operation mode	Constant flow rate and maximum volume disperse
Accessories (optional)	Co-axial nozzle with tubing

High Voltage Power Supply	
Model	PS35-PV
Max. output voltage	35 kV
Accuracy	0.1 kV
Power	35 Watt
Voltage monitoring	Digital
Body	Durable metal casing
Quantity	Two (2) units

*Product specifications are subject to change without prior notice due to engineering innovations.



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