

# SPRAY PYROLYSIS DEPOSITION EQUIPMENT



Make: Nano Tec, Chennai

Model. No: NT/SPU-2022

### Reaction/Spray Chamber

1. Dimension : 500 – 800 mm(L) × 500–800mm(W)×500–800mm(H)
2. Material : Made of Corrosion resistance materials or Teflon coated

### Substrate Base Plate

3. Substrate Size : 150 × 150 mm
4. Substrate temperature : Max 550 ° C
- 4A. Substrate material : Corrosion resistance material
5. Power Supply : 230 V, 50 Hz
6. Power Consumption : 2000 W

### Dispenser

7. Capacity : 10 ml – 250 ml
8. Dispensing rate : 1 – 10 ml /min
9. Standard Dispensing Solution
10. Actuator Stepper motor Moving Spray Nozzle (X- & Y-axis) with spray rate control
11. Moving Spray Nozzle X- & Y-axis Motion
12. Ultrasonic Spray Head (producing a fine spray of droplets of ~ 50-micron average size)
13. Spray Rate Control : Microprocessor-controlled based stepper motor drives

### Accessories

15. Compressor
  - Oil free air only
  - Automatic switching on and off

according to the prevailing pressure level

16. Syringe Pump For solutions that will be sprayed at lower flow rates (<1 ml /min)
17. Necessary hardware and software to control the operation with Windows 8/10 OS
18. Dispensing Containers/Bottles, Nylon tubes other accessories
19. Exhaust system in the reaction/spray chamber
  - A Built-in exhaust pump with a dust filter for powder/solvent vapours removal.
20. Display System
  - Substrate and heater temperatures,
  - atomizing air pressure
  - spray rate
  - spray volume

Warranty : 1 to 3 year

