

Spray Pyrolysis

(SPY - 400)

Robust Construction: High-quality M.S. body and angle structure with powder coat finish.

Double Deck Design: Optimized space with top for equipment and bottom for a shelf model.

Advanced Viewing: Acrylic door allows for operation monitoring without compromising insulation.

Efficient Heating System: APM grade Kanthal heating elements with a maximum working temperature of 400°C.

Precise Spraying: Peristaltic pump with adjustable spray rates from 1 ml to 65 ml/min.

Customizable Drive System: Stepper motor controller with three directional movements (manual and automatic).

Accurate Control System: PID temperature programmer with K-type thermocouple and non-contact sensors.

Integrated Safety Features: Pressure relief valve, safety valves, and automatic pressure switch included.

User-Friendly Interface: PLC-based automation with HMI screen for easy operation.

Complete Setup: Includes a laptop and software for enhanced functionality.



Component	Specification
Shell Size	700 x 700 x 900 mm
Shell Construction	M.S. Body & Angle structure, powder coated
Door Construction	Acrylic door (top), Metal door with glass (bottom)
Suction Fan	0.25 HP
Heating Power	2 kW, Single phase/AC
Max Working Temp.	400°C (surface temperature of hot plate)
Work Area	200 x 200 mm
Pump Type	Peristaltic pump, 24V PMDC motor
Pressure	Up to 2 Kg/Sq.Cm
Spray Rate	1 ml to 65 ml/min
Tubing Size	1 mm or 3 mm ID
Nozzle	Glass Gun (1 mm dia)
Drive System	Stepper motor, 3 directional movements
Temperature Control	TAIE PID programmer, ±1°C accuracy
Air Compressor	0.25 HP, Adjustable working pressure 1.5 bar
Air Tank Capacity	10 liters
Air Delivery	25 CFM
Accessories	Laptop and Software included