

Vacuum Coater

MODEL: 12A4-D



It is a versatile laboratory model coating unit for thin film application with facilities for evaporation, glow discharge cleaning etc. as standard.

Optional accessories like Substrate Heating, Rotary Drive, Flash Evaporation, EB Gun evaporation etc. are available to meet the specific requirements of the customers.

It is an ideal unit for thin film coatings in Research, Educational institutions, semiconductor, optics and material development institutions.

The Vacuum coating unit & chamber gadgetories are manufactured using high vacuum compatible materials.

Salient Features

- Versatile coating unit.
- Compact and elegant.
- Can accommodate wide range of accessories.
- Highly reliable and proven.
- Suitable for mounting a 3 KW Electron Beam Gun.

Optional Accessories:

Rotary Drive, Radiant Heaters, Cold Fingers, Thickness Monitor, Flash Evaporations, Multi Filament Turrets, Liquid Nitrogen Trap, Substrate Heaters 300°C and 600°C, Electron Beam Gun 3KW Single Source/4 Source

TECHNICAL SPECIFICATIONS

		Model
Parameters		12A4-D
1.	Vacuum Chamber	Beljar Type
2.	Chamber Size	300 mm Dia x 350 mm Height (nominal)
3.	Material	Stainless Steel - SS 304.
4.	Base Plate	SS304, 330mm dia, with 11 Nos. ports for various feed throughs
5.	Chamber Lifting	Manual Lifting with spring & ball cage Assembly
6.	CHAMBER GADGETORIES: (std)	
	a. Work holder Size (Stationery)	225 mm Dia.
	b. LT Evaporation	3 sets x 200 Amps, 10 V A.C (Sequeintial)
	c. Ion Bombardment	1 set, 3.5 KV, 50 MA D.C
	d. Source Shutter (manual)	1 set
7.	VACUUM PUMPING SYSTEM	
	a. Diffusion pump type & speed	OD-114D, 280 Lit/Sec.
	b. Rotary Vacuum Pump type & speed	ED-15, 250 Lit/Min.
	c. High Vacuum Valve	100mm Butterfly Valve
	d. Roughing, Backing Valve	25mm size(CV-25)
	e. Vacuum Gauges	Analog, Pirani, Penning Gauge with sensor to measure Vacuum in the range of 0.5 Mbar to 1×10^{-3} Mbar and 10^{-3} to 10^{-6} Mbar)
8.	Ultimate Vacuum with DC-704 oil	5×10^{-6} M.bar. without LNT & 1×10^{-6} M.bar. with LNT
9.	Utilities Required	
	a. Power	230V AC, 50Hz, Single Phase, -15 Amps
	b. Water at 25° C	2 Lit/min at a pressure of 1.5 - 2 Kg/cm ²

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