

Vacuum Coater

MODEL: 20F10-D (For Laboratory & Industrial Use)



"HINDHIVAC" Vacuum coating Unit Model 20F10-D is a versatile unit for production units as well as research organisations. Optional accessories increase the versatility of the unit, making it suitable for various applications such as optical thin film coating, ophthalmic coating, semiconductor industries, micro electronics etc. This vacuum coating unit has facilities for thermal evaporation and Ion cleaning with substrate holder as standard gadgetories. Other accessories are radiant heater, rotary drive, electron beam gun evaporation (3kw & 8 kw with single source and 4 source evaporation sources), thickness measuring instruments such as Quartz thickness monitor. This Vacuum coating unit is fitted with high speed vacuum pumping system fully integrated with Two stage rotary vacuum pump, diffusion pump with necessary traps and valves. The system can be supported either with manually operated or auto manual controller. HINDHIVAC Vacuum system Model 20F10-D is rated for high gas throughput to produce clean and high vacuum in the beljar.

Salient Features

- Compact & Elegant
- Easy to service
- Fast Vacuum Cycle due to high pumping speed
- Low ultimate pressure
- Simple handling and dependable operation by front panel control system
- Cabinet mounted with hydraulic lifting facility for beljar

Optional Accessories:

Electron Beam Gun
8KW 270° bent beam
4 source (7cc), Single source (40cc),
Digital Thickness monitor, Planetary Drive, Multi filament turrets, Quartz tube heater, Flash evaporation system, AVC system with remote controller.

TECHNICAL SPECIFICATIONS

		Model
Parameters		20F10-D
1.	Vacuum chamber	Vertical Beljar type Vacuum Chamber
2.	Chamber Size	500 mm Dia x 565 mm Height.
3.	Base Plate Size	570mm dia, 16 nos. of blank holes with dummies on periphery
4.	Material	Stainless steel SS-304
5.	Chamber Lifting	Hydraulic cylinder with power pack
6.	CHAMBER GADGETORIES:	
	a. LT Evaporation	3 sets, 400A 10V
	b. Ion Bombardment	1 set, 3.5 KV, 500 MA
	c. Substrate holder size (flat)	450mm dia
	d. Rotary Drive	DC geared motor with rotary shaft seal.
	e. Radiant Heater (tubular)	Stainless Steel tubular heater dome shape, to heat the substrate to 300° C
	f. Gas feeding	Fine control needle valve
	g. Source shuter	1 no. manual operation
7.	VACUUM PUMPING SYSTEM	
	a. Diffusion pump type & speed	OD-250D, 1700 Lit/Sec.
	b. Rotary Vacuum Pump type & speed	FD-60, 1000 Lit/Min.
	c. High Vacuum Valve	250mm Butterfly Valve (Electro pneumatic)
	d. Roughing, Backing Valve	50mm size Right angle type electro pneumatic
	e. Vacuum Gauge	Analog, Pirani, Penning Gauge with sensor to measure Vacuum in the range of 0.5 Mbar to 1 x 10 ⁻³ Mbar and 10 ⁻³ to 10 ⁻⁶ Mbar)
8.	Ultimate Vacuum (when LNT filled with Liquid Nitrogen)	1 x 10 ⁻⁶ M.bar in clean, empty chamber
9.	Utilities Required	
	a. Power	415V AC, 50Hz, Three Phase,
	b. Water at 25° C	6 Lit/min at a pressure of 2-3 Kg/cm2
	c. Pneumatic supply	Compressed air at 4-5 Kg/cm2

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