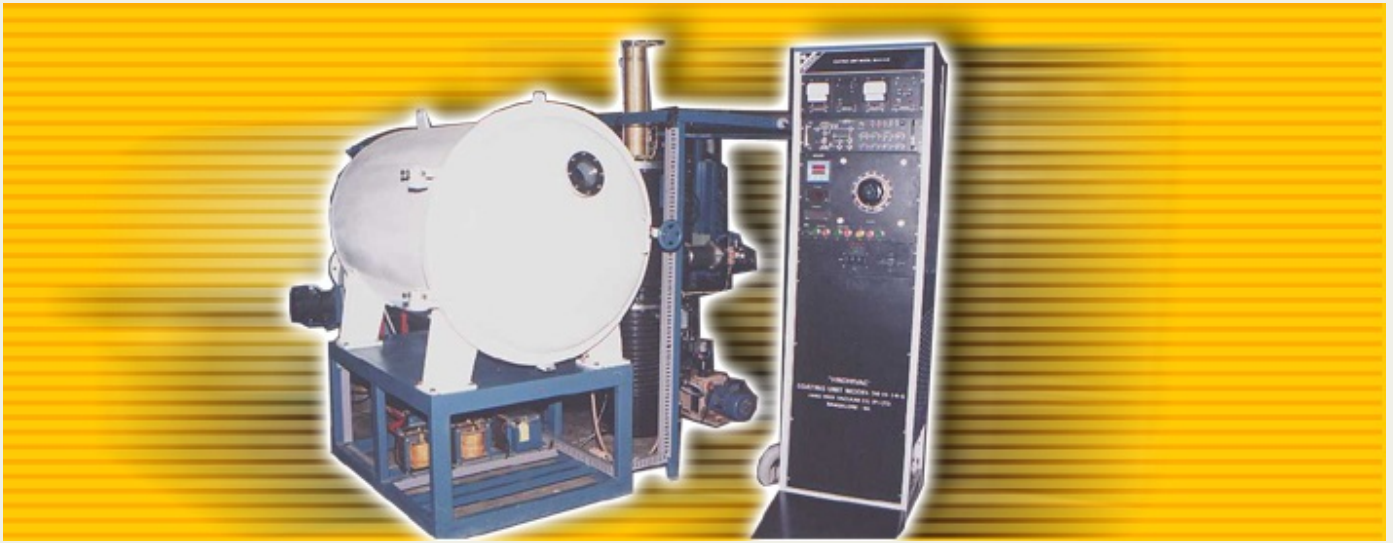


Vacuum Coater

MODEL: 36H14



HINDHIVAC Horizontal Vacuum Coater Model 36H14 is an Industrial Coating unit with high production output for decorative coatings and mirroring. The unit has a high capacity pumping system for achieving rapid cycling.

System details:

- Vacuum Chamber:** Horizontally mounted cylindrical chamber is fabricated from non-magnetic SS 304. The chamber is provided with a de-mountable hinged door on the front for easy loading & unloading of jig into the chamber.
- Chamber Gadgetories:**
 - **LT Evaporation:** Consisting of 2 Nos. of live electrode, 1 No. of earth electrode with power rating of 600 AMP @ 10 V
 - **Ion Bombardment:** A bar type ion-cleaning target energized by 3.5 KV, 500 MA power is provided for cleaning the substrates surface with residual gas or by introducing an inert gas
 - **Radiant Heater:** Specially designed tubular heaters are provided to heat the substrate upto a temperature of 200°C
 - **Rotary Drive with Cage Work Holder:** Rotary drive mechanism is provided with a variable speed motor and a reduction gear box to achieve uniform deposition.
- Vacuum Pumping System:** An Oil Diffusion Pump having an un-baffled speed of 6000 lits/sec backed by two stage Rotary-Roots Combination Vacuum Pump. Besides, electro-pneumatically operated right angle high vacuum valve and water cooled chevron baffle valve, roughing & backing valve for vacuum system operation. Vacuum system is completely automated using automanual controller & microprocessor based pirani-penning gauge. LT evaporation facility with 600 Amps power supply to feed power to bank of evaporation filaments.
- Ultimate Vacuum:** Under a clean, dry, fully degassed chamber & chevron baffle supplied with water at 15°-20°C, an ultimate vacuum of $>5 \times 10^{-6}$ mbar can be achieved.
- Safety Devices:** A number of safety devices like vacuum switch, thermostat, water flow switches are provided for a fail-proof vacuum cycle.
- Power Requirement:** 415 V AC, 3 phase, 50Hz with power neutral and ground connections with peak load of about 25 KVA.

TECHNICAL SPECIFICATIONS

Parameters		Model 36H-14
1.	Configuration	Horizontal mounted, cylindrical construction
2.	Chamber Size	915 mm Dia x 910 mm Depth
3.	Material	Stainless Steel SS-304
4.	CHAMBER GADGETORIES:	
	a. LT Evaporation	2nos of live electrode, 1 no of earth electrode with 600 AMP @ 10V power supply
	b. Ion Bombardment	Bar type aluminium glow discharge gadget with power rating 3KV, 500MA
	c. Radiant Heater	Tubular heater to heat semi circular type to heat the substrate upto 200°C
	d. Drive Mechanism	Friction drive with DC motor with DC drive with rotary shaft seal
	e. Rotary work holder size	730mm dia x 800 Length
	f. Rotary planetary work holder spool size	280mm dia x 1140mm long
	g. No. of spools	6
5.	VACUUM PUMPING SYSTEM	
	a. Diffusion pump type & speed	OD-350, 6000 Lit/Sec.
	b. Roots Vacuum Pump type & speed	RD-500, 500 M ³ /Hr
	c. Rotary Vacuum Pump type & speed	CD-120, 120 M ³ /Hr
	d. Water cooled chevron baffle valve	350mm size
	e. High Vacuum Valve	Electro pneumatic rightangle type of 14" size
	f. Roughing, Backing Valve	50mm size Right angle type electro pneumatic
6.	Control Instruments	Auto/Manual Vacuum Controller, programmable logic controller, vacuum gauge etc.
7.	Ultimate Vacuum	5×10^{-6} Mbar in clean, empty chamber
8.	Utilities Required	
	a. Power	415V AC, 50Hz, Three Phase, peak power consumption ~ 25KVA
	b. Water	15-20 Lit/min at a pressure of 2-3 Kg/cm ² at inlet temp 15-20°
	c. Pnumatic supply	Compressed air at 4-5 Kg/cm ²

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