

High Vacuum Pumping Systems

MODELS: VS-65D, VS-114D, VS-150 & VS-250



HINDHIVAC developed a wide range of HIGH VACUUM PUMPING SYSTEMS for both laboratory and industrial use. These systems are manufactured in 4 standard models VS-65D, VS-114D, VS-150, VS-250 and are suitable for the most of the vacuum applications. HINDHIVAC also offers VS-350, VS-500 & special pumping systems as per customer specifications. The standard pumping systems consists of HINDHIVAC Rotary Vacuum Pump (ED Series), Diffusion pumps (OD Series) and other hardware like valves, baffles, collar, gauge and plumbing lines etc., fully integrated and wired. Special pumping systems are offered with rotary, roots & diffusion pumps or combination as per customer requirements. The HINDHIVAC pumping systems, trolley mounted for easy movement, are capable of achieving an ultimate vacuum of 10^{-6} m.bar. Liquid nitrogen trap (optional) is to minimise the back-streaming of oil vapours, and ensures clean and better ultimate vacuum of 10^{-6} m.bar range. The pumping systems are fitted with Pirani gauge to measure the roughing and backing vacuum & Penning gauge for measuring the high vacuum.

Salient Features

- All components easily accessible.
- Compact construction
- Simple operation
- Allows direct connection of Vacuum Chamber
- Pumping speed ranging from 120 lps to 3000 lps
- Ultimate (Unbaffled) vacuum better than 10^{-6} m bar (with LNT)
- D.P., baffles, valves, collar & plumbing are S.S. construction

Optional

- Liquid Nitrogen Trap
- Water Cooled Chevron Baffle
- Electro pneumatically operated valve. (Butterfly valve, Rightangle Valve)
- Push buttons, automatic versions are available on request

TECHNICAL SPECIFICATIONS

		Model	Model	Model	Model
Parameters		VS-65D	VS-114D	VS-150	VS-250
1	Diffusion Pump (with DC-704 oil) Type	OD-65D Diffstack 120	OD-114D Diffstack 280	OD-150 1000	OD-250 3000
2	Speed(Lit/Sec)-unbaffled Rotary Vacuum Pump Model	ED-6 100	ED-15 250	ED-21 350	FD-60 1000
3	Speed(Lit/Min.) High Vacuum Valve - Size (QSV)	QSV-3	QSV-4	QSV-6/ BV-6	QSV-10/ RPV-250
4	Roughing, Backing Valves	QSV1-2nos/ CV-16	QSV1-2nos/ CV-25	QSV1-2nos	QSV2-2nos/ RPV-50-2nos
5	Ultimate Vacuum- mbar (When Ln2 filled in the Liquid Nitrogen Trap)	$\geq 1 \times 10^{-6}$	$\geq 1 \times 10^{-6}$	$\geq 5 \times 10^{-6}$	$\geq 5 \times 10^{-6}$
with empty, clean & degassed chamber					
6	Inlet Collar Diameter	65 mm	114 mm	150 mm	250 mm
7	Utilities Required	230V - 50 Hz, 1 Phase, 10 A 2 Lit/Min	230 V - 50Hz, 1 Phase, 10 A 2 Lit/Min	230 V - 50Hz, 1 Phase, 10 A 4 Lit/Min	440 V - 50 Hz, 1 Phase, 10 A 4 Lit/Min

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