



JHH VACUUM PUMP PVT. LTD.



**A COMPLETE VACUUM
PUMP SOLUTION**

E-mail : jhhvpdelhi@gmail.com
jaihind108@yahoo.com

website : www.jaihindvacuumpump.co.in

9811649911 , 9999764388



ESTD.2002

Our company **“JAI HIND HIGH VACUUM PUMP”** was established in 2002 & has now grown-up as **“JHH VACUUM PUMP PVT.LTD.”** in 2025 as a **Leading Manufacturing** company by a team of expert engineers, who have a vast experience of vacuum pumps and systems since many years, during their working one of them who is now leading the company as a front leader in the vacuum pump manufacturing is **Mr. B.K. Mishra**. For your interest and reference, we give here under the brief description of the various products that we manufacture in **“JHH VACUUM PUMP PVT. LTD.”** at **Delhi**.

We at **“JHH VACUUM PUMP PVT. LTD.”** is a leading manufacturer and supplier of high precision vacuum pumps catering to the utmost satisfaction and fitting into the various sensitive technical fields to serve the market of various states anchoring in and out of all industrial estates

BELT DRIVE HIGH VACUUM PUMP

SINGLE STAGE

MODEL NO.	HP	DISPL. IN LPM	VACUUM IN MM/HG	OIL CHARGES IN LTRS.
JHV1-100	1/4	100	760	1.5
JHV1-200	1/4	200	760	2
JHV1-325	1	325	760	3.5
JHV1-150	2	600	760	7
JHV1-180	3	1000	760	10
JHV1-180	3	1500	760	10
JHV1-210	5	2000	760	20
JHV1-280	7.5	3000	760	20
JHV1-350	10	5000	760	35
JHV1-400	12.5	7500	760	40
JHV1-475	15	10000	760	50
JHV1-500	20	15000	760	55

DOUBLE STAGE

MODEL NO.	HP	DISPL. IN LPM	VACUUM IN MM/HG	OIL CHARGES IN LTRS.
JHV 2-100	1/4	100	0.005	1.5
JHV 2-200	1/4	200	0.005	2
JHV 2-325	1	325	0.005	3.5
JHV 2-150	2	600	0.005	7
JHV 2-180	3	1000	0.005	10
JHV 2-180	3	1500	0.005	10
JHV 2-210	5	2000	0.005	20
JHV 2-280	7.5	3000	0.005	20
JHV 2-350	10	5000	0.005	35
JHV 2-400	12.5	7500	0.005	40
JHV 2-475	15	10000	0.005	50
JHV 2-500	20	15000	0.005	55



The rotary vane vacuum pump is an oil- sealed rotary displacement pump. This pumping system comprises of

- hosing
- Eccentrically installed rotor
- Vanes which move radially under the spring force
- Outlet- it is oil sealed
- Inlet- it is designed similar to the vacuum safety valve which is always open during its functionality
- Working Chamber-situated inside the hosing

The vanes and rotor separates the working chamber into two different spaces possessing the variable volumes. When the rotor turns around the gas flows inside thus enlarging the suction chamber till the time it's perfectly sealed off through the second vane. The gas inside this vane is compressed till the outlet valve is opened against the atmospheric pressure. when it is witnessed that gas ballast operation has to be done, the hole present in the outside has to be opened due to which the reassessed gas is emptied into the sealed suction chamber which is fixed at the front portion. Rotor works with the assistance of the motor which is attached to this part.

The following are its usages:

- Automobile industry
- Electron microscopy
- Glass coating
- Paper & Pulp Industries.
- It is used in metallizer, metalizing, film coating plants etc.
- Ophthalmic coating.
- Semiconductor processor – dry itching, deposition of CVD, PECVD, ALD & PVD, ion implantation
- Medical application which needs suction radio surgery, radio pharmacy and radiotherapy
- Jewelry Casting Industries.

Single Stage Liquid Ring Vacuum pump



MODEL NO.	SUCTION CAP	MAX.VAC.	WATER REQ.	PRESSURE	MOTOR HP/RPM
JHW1 49/3	49 M3/hr	710 mmhg.	07 LPM	0.5 TO 0.6 Kg./cm2	03/2850.
JHW1 81/5	81 M3/hr	710 mmhg.	09 LPM	0.5 TO 0.6 Kg./cm2	05/2850.
JHW1 123/7.5	123 M3/hr	710 mmhg.	14 LPM	0.5 TO 0.6 Kg./cm2	7.5/2850
JHW1 165/7.5	165 M3/hr	710 mmhg.	16 LPM	0.5 TO 0.6 Kg./cm2	7.5/1450
JHW1 220/10	220 M3/hr	710 mmhg.	20 LPM	0.5 TO 0.6 Kg./cm2	10/1450
JHW1 330/15	330 M3/hr	710 mmhg.	30 LPM	0.5 TO 0.6 Kg./cm2	15/1450
JHW1 440/20	440 M3/hr	710 mmhg.	40 LPM	0.5 TO 0.6 Kg./cm2	20/1450
JHW1 725/30	725 M3/hr	710 mmhg.	60 LPM	0.5 TO 0.6 Kg./cm2	30/980
JHW1 1080/40	1080 M3/hr	710 mmhg.	100 LPM	0.5 TO 0.6 Kg./cm2	40/980

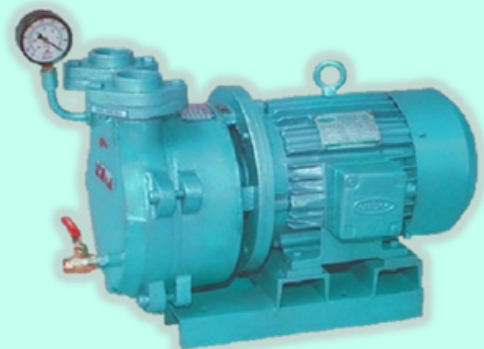
Liquid Ring Vacuum Pumps are mostly known as **-(LRVP)**. These are found in numerous ranges such as Single stage, double stage due to which it can cover most rigid vacuum applications. If these vacuum pumps are designed and manufactured as per unique designs then they can be best for any kind of application. These can deliver great results possessing less body weight and profiles. As there are numerous vacuum pumps available in the market but the liquid ring vacuum pumps **JHHVP** are the best and can be used for numerous usages

The following are its features: -

- Due to the liquid ring, it becomes easy for handling the condensable vapours.
- The pumping capacity - 18m3/hr to 1080m3/hr.
- Excellent reliability & quality
- Ultimate pressure – 33bar
- Pump size is compact without affecting its performances.
- Full SS body and the impeller construction is available for handling the corrosive vapor.
- It is made up of tough materials due to which they can adjust with challenging applications.

JHHVP Monoblock Vacuum pump

S.No.	MODEL NO.	MOTOR		SUCTION	
		H.P	RPM	M3/Hr.	LPM
1	JHM 1	1	2850	18	3
2	JHM 2	2	2850	24	4
3	JHM 3	3	1450	49	7
4	JHM 5	5	1450	81	9
5	JHM 7	7.5	1450	123	12
6	JHM 10	10	1450	220	15
7	JHM 15	15	1450	330	22



TWO STAGE LIQUID RING VACUUM PUMP

Jai hind high vacuum pump has developed its series of two stage Ring vacuum pump based on positive displacement liquid ring principle which has a superior performance by getting higher vacuum and at Comparatively low water consumption. It develops an ultimate vacuum of 720 mm hg at the sealing water Temperature of 30 ° C with the capacity range of 30 to 100m³/hr., the same can be increased up to 735 mm hg. When supplied with 15 ° C to 18 ° C. this design is latest considering the saving of energy.

FEATURES & ADVANTAGED

- Simple & robust construction.
- Efficient performance compared to single stage vacuum Pump.
- Energy saving with low power and less water requirement.
- Suitable vacuum range for number of process applications.
- Can be supplied with accessories like mechanical seal, corrosion resistant coatings, As a backup pump for mechanical booster in vacuum system.
- Water Recirculation system, Exhaust silencer special Types couplings fro specific application

FIELDS OF APPLICATION

- Dehydration & Filtration
- Deodorization, Evaporation
- Distillation, Sterilization
- Venting & Sucking Exhausting,
- Extrusion

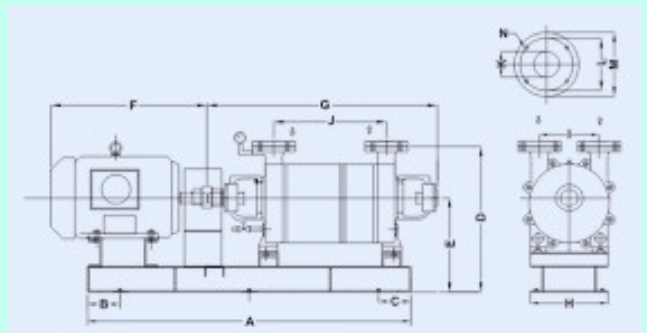
INDUSTRIES SERVED

- Chemical & Pharma industries
- Process plants & lab purpose
- Biodiesel plants & distilleries
- Oil refining & Dairy industries



TECHNICAL SPECIFICATIONS

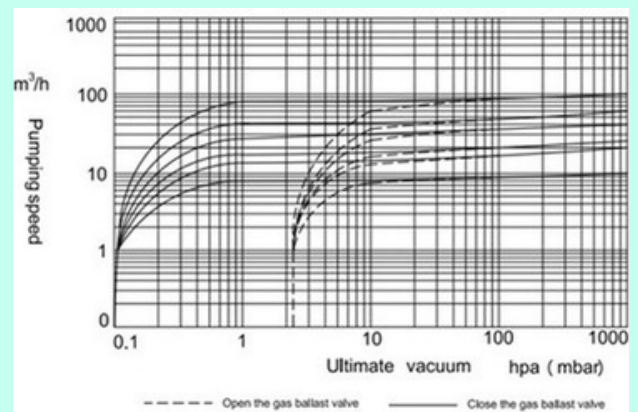
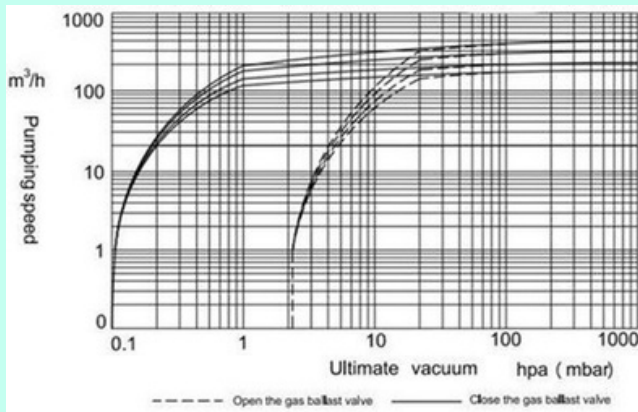
Pump Model	Max. Cap. (m ³ /hr.)	Water Reqd. (LPM)	Rec. Motor HP/ Speed
JHW2-5	85	07	5/1450
JHW2-7	165	09	7.5/1450
JHW2-10	220	14	10/1450
JHW2-15	330	20	15/1450
JHW2-20	440	24	20/1450
JHW2-20(S)	460	24	20/1450
JHW2-25	575	30	25/1450
JHW2-30	680	30	30/1450
JHW2-40	980	50	40/1450



OIL LUBRICATED ROTARY VANE VACUUM PUMP



SPECIFICATIONS	JHVP- 025	JHHP- 040	JHVP-063	JHVP- 100	JHVP-200	JHVP-300
Nominal pumping speed	25/30 m ³ /h (50/60 Hz)	40/48 m ³ /h (50/60 Hz)	63 / 76 m ³ /h (50 / 60 Hz)	100/120 m ³ /h (50/60 Hz)	200/24M ³ /h (50/60 Hz)	300/360 M3/h (50/60Hz)
Ultimate pressure	0.1 hPa(mbar) (50/60 Hz)	0.1 hPa(mbar) (50/60 Hz)	0.1 hPa(mbar) (50/60 Hz)	0.1 hPa(mbar) (50/60 Hz)	0.1 hPa(mbar) (50/60 Hz)	0.1 hPa(mbar) (50/60 Hz)
Nominal motor rating	1.0/1.2 KW (50/60 Hz)	1.0/1.2 KW (50/60 Hz)	2.0/2.4 KW (50/60 Hz)	2.7 / 3.4 kw (50/60 Hz)	4.5/5.5 kw (50/60 Hz)	7.5/7.5 Kw (50/60 Hz)
Nominal motor speed	1500/1800 Min ⁻¹ (50/60 Hz)	1500/1800 Min ⁻¹ (50/60 Hz)	1500/1800 Min ⁻¹ (50/60 Hz)	1500 / 1800 min ⁻¹ (50/60 Hz)	1500 / 1800 min ⁻¹ (50/60 Hz)	1500 / 1800 min ⁻¹ (50/60 Hz)
Power consumption at ultimate pressure	0.5/0.6 kw (50/60 Hz)	0.6/0.7 kw (50 / 60 Hz)	0.7/0.8 kw (50 / 60 Hz)	1.2 / 1.5 KW (50/60 Hz)	1.4 / 1.7 KW (50/60 Hz)	1.6 / 1.9 KW (50/60 Hz)
Noise level (ISO 2151)	60/63 Db(A) (50/60 Hz)	63/ 66 dB(A) (50 / 60 Hz)	64 / 67 dB(A)(50/60 Hz)	65 / 68 dB(A) (50/60 Hz)	76 db(A) (50/60 Hz)	76 db(A) (50/60 Hz)
Oil capacity	1.01	1.01	2.1	3.1	5	7.0
Weight approx.	40 kg	45 kg	55 kg	73kg	150kg	211kg
Dimensions (LxWxH)	585 x 284 x 263 mm	625 x 284 x 263 mm	627 x 406 x 290 mm	701 x 406 x 290 mm	850*500*410 mm	1010*540*425
Gas inlate/outlet	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "	G 1 ¹ / ₄ " / G 1 ¹ / ₄ "



RING BLOWERS, SIDE CHANNEL BLOWERS TURBINE BLOWER



MODEL	POWER	DISPLACEMENT	VACUUM	PRESSURE	WEIGHT
JHBL - 90	0.25 HP	20 m ³ /hr	- 90 mbar	110 mbar	7 KG
JHBL - 370	0.5 HP	80 m ³ /hr	-110 mbar	111 mbar	12 KG
JHBL - 550	0.55 HP	120 m ³ /hr	-120 mbar	112 mbar	14 KG
JHBL - 850	1.0 HP	145 m ³ /hr	-150 mbar	113 mbar	18 KG
JHBL - 1100	1.1 HP	210 m ³ /hr	-160 mbar	114 mbar	21 KG
JHBL - 1500	2.0 HP	230 m ³ /hr	-190 mbar	115 mbar	24 KG
JHBL - 2200	3.0 HP	325 m ³ /hr	- 230 mbar	116 mbar	28 KG
JHBL - 4000	5.5 HP	475 m ³ /hr	- 290 mbar	117 mbar	40 KG
JHBL - 5500	7.5 HP	530 m ³ /hr	- 300 mbar	118 mbar	55 KG
JHBL - 7500	10.0 HP	550 m ³ /hr	-320 mbar	119 mbar	75 KG



MODEL	POWER	DISPLACEMENT	VACUUM	PRESSURE	WEIGHT
JHBLD- 850	1.0 HP	88 M ³ /hr	-220 mbar	250 mbar	20 KG
JHBLD- 1500	2.0 HP	150 M ³ /hr	-280 mbar	280 mbar	25 KG
JHBLD- 2200	3.0 HP	160 M ³ /hr	-330 mbar	440 mbar	35 KG
JHBLD- 4000	5.0 HP	230 M ³ /hr	-340 mbar	410 mbar	60 KG
JHBLD- 5500	7.5 HP	320 M ³ /hr	-340 mbar	410 mbar	70 KG
JHBLD- 7500	10.0 HP	350 M ³ /hr	-440 mbar	570 mbar	80 KG

JHHVP MECHANICAL VACUUM BOOSTER PUMPS

Import substitutes, are used in growing number of applications where fast pump down times are required, and environment or energy usage concerns, rule out any alternative pump selection. JHHVP Booster Pumps enhance the performance, ultimate vacuum and pumping speed of oil-sealed/water ring/dry vacuum type of mechanical pumps, which are widely used in the industry

OPERATING PRINCIPLE

Vacuum Boosters are positive displacement pumps with two figure eight shaped impellers rotating in opposite directions inside the casing. As each lobe of an impeller passes the blower inlet, it traps a quantity of air equal to exactly one fourth the displacement of the blower. This entrapment occurs four times per revolution. The entrained air is forced around the case to the blower outlet. Timing gears accurately position the impellers in relation to each other to maintain the minute clearances so vital to the high volumetric efficiency of the pump.



KEY FEATURES

Boosts vacuum levels by backing pumps, thereby reducing process temperature, boosts volumetric displacement and thereby reducing Process time.

MODEL	Capacity (M3/Hr)	Maximum Differential	Rec. Motor HP/1440 RPM	Rec. Line Siz
JHB1	260	90	1.5 HP	65
JHB5	400	120	3HP	65
JHB15	800	90	5HP	80
JHB30	1650	70	7.5HP	125
JHB50	2950	70	10HP	125
JHB60	3900	70	15HP	200
JHB70	5250	70	15HP	200

APPLICATION:

Evaporative Concentration, Vacuum Distillation, Polymerization, Crystallization, Vacuum Impregnation, Vacuum Drying, Sterilization, Vacuum Cooling, Object Metallising, Roll Metallisation, Semi-conductor Processing, Manufacture of Vacuum & Microwave Tubes, Manufacture of GLS Automotive & Miniature Lamps, Tube Light Production, Sintering, Brazing, Electron Beam Welding, Heat Treatment, Ionic Nitriding, Tool Coating, Vacuum Casting, Degassing & Refining, Plasma Welding, Evaporation, Sputtering, Space Research and Development

JHHVP Boosters Advantages High vacuum of the order of 0.001 Torr or better High pumping speeds at low pressures, capacity is boosted by 8 to 10 times or more Relatively low power consumption for such performance boosting Considerable reduction in pump down time of vacuum machine Prevents Oil back streaming from Rotary pumps Dry Pumping suitable for Gas/Vapour Loads

JHHVP Boosters Features Entirely mechanical, light weight and compact design High operating speeds because of dynamically balanced rotors and helical ground gears for long life and quiet operation Can be mounted separately from the backing pump or directly on the inlet of the backing pump ISO Flanges Unique impeller design for high volumetric efficiency Compatible with all vacuum systems Efficient air-cooled design

ADVANTAGES OF PISTON RING VACUUM PUMP

- High Power Saving up to 38%
- High Vacuum Efficiency up to 720-740 mm Hg (with closed intake)
- No harassment of ETP or Waste water Management.
- No Water wastage at all. Only need to maintain water levels for vapor absorption losses
- 1 Pump will be sufficient to handle 2 Pumps capacity. Hence Power, space & maintenance will be less every year
- Long life of more than 20 years if maintained properly
- Maintained Efficiency of 90% & above by doing PM as per yearly schedule
- All the discharge air can be used for drying chambers (maintained 45-50°C) with ducting
- Smooth operation with an easier way
- Maintenance free up to a long period of time
- Easy availability of spares & services
- Compact design for best water cooling
- Easy maintenance at your site



DRY VACUUM PUMPS

MODEL	RATED RPM	PD CFM	PF M3/MIN	PEAK BHP	VACUUM INCHES/MM		HP MOTOR
SINGLE STAGE							
JH-9.5X5 ESH	675	275	7.78	14	27.5	699	20
JH-12X5	600	392	11.08		29.2	742	25
JH-18X5 ESH	600	880	24.9	31	29.2	742	40
JH-22X7 ESH	450	1380	39.1	47	29.4	747	50
JH-22&22X7 IHE	450	2760	78.2	94	29.4	747	100
JH-26&26X9 HSE	400	4412	125	156	29.5	749	
TWO STAGE							
JH-18X5 ESH	600	442	12.5	24.1	29.75	756	40
JH-22X7 ESH	450	694	19.6	35.5	29.85	758	60

NOTES:

STD EQUIPMENT INCLUDES: V-best drive C/W vp shave, motor pulley, vre belts & belt guard foundation bolts for motor and V-pump slide rails for motor



VACUUM PUMP PERFORMANCE (SINGLE STAGE)

SMALL COMPRESSOR DIVISION

MODEL	SIZE	MOTOR HP	RPM	P.D.CFM	PEAK BHP	VACUUM
JH-V235	3"&3"X2-3/4"	2	960	21.60	1.34	29" HG
JH-V244	4"&4"X2-3/4"	2	866	34.60	1.96	29"HG
JH-V255	5"&5"X3-1/2"	5	750	60	3.60	29"HG
JH-7V	5-1/2"&5-1/2"X4"	7.5	1000	100	5.90	29"HG
JH-15V	5-1/2"&5-1/2"&5-1/2"X4"	10	900	149.6	8.30	29.20"HG

VACUUM PUMP PERFORMANCE (TWO STAGE)

SMALL COMPRESSOR DIVISION

MODEL	SIZE	MOTOR HP	RPM	P.D.CFM	PEAK BHP	VACUUM
JH-V235	3"&3"X2-3/4"	2	960	10.80	1.34	29.60" HG
JH-V244	4"&4"X2-3/4"	2	866	17.30	1.96	29.65"HG
JH-V255	5"&5"X3-1/2"	5	750	30	3.60	29.70"HG
JH-7V	5-1/2"&5-1/2"X4"	7.5	1000	55	5.90	29.65"HG
JH-15V	5-1/2"&5-1/2"&5-1/2"X4"	10	900	99	8.50	29.65" HG

Notes:

1) All BHP figures include belt loss horsepower. 2) BHP and ACFM may vary within +/- 5%. 3) This performance supersedes all the previous performances of the above models in the above pressure range. 4) Maximum vacuum is referred to 30" of barometer with a closed intake. (°) 5) Refer factory for the selection of the vacuum pumps.

MECHANICAL VACUUM BOOSTERS SYSTEM

A mechanical vacuum booster is a type of vacuum pump designed to increase the performance of primary vacuum pumps. It works by creating a pressure differential that enhances the efficiency and capacity of the vacuum system. Mechanical vacuum boosters are highly effective in applications where a deep vacuum is required, such as distillation, coating and refining processes.



Benefits of Mechanical Vacuum Boosters

Enhanced Vacuum System Efficiency:

By increasing the overall capacity and efficiency of the vacuum system, mechanical vacuum boosters enable faster processing and better performance.

Energy Savings:

The low power consumption of vacuum boosters reduces operational costs, making them an economical choice for industries.

Durable and Reliable Design:

The absence of physical contact between the impellers and the casing minimizes wear, ensuring a longer operational lifespan and reduced maintenance requirements.

SPARE PART FOR VACUUM PUMPS

JHH VACUUM PUMP PVT. LTD. :- is a trusted manufacturer and specializing in Vacuum Pump Service Kits and Exhaust Filters. In addition to offering top quality products, we are also a reliable supplier of services to help maintain and enhance the performance of industrial equipment. With years of experience in the industry, we cater to a wide range of businesses that rely on vacuum systems for efficient operations. Our expert knowledge ensures that we deliver solutions that meet the needs of our customers, with a commitment to quality and customer satisfaction at the core of everything we do

Spare parts for vacuum pumps are widely available for manufacturers and specialized suppliers, and include items like vanes, seals, gaskets, filters, and oils. To find the correct part, we need the pump's specific model number and serial number, which is typically found on a nameplate or tag on the pump body.



VACUUM PUMP OIL

(SYNTHETIC)

(For Industrial use only)

Synthetic oils like Polyalphaolefins (PAOs) and Esters are high-performance base oils used in lubricants, offering superior performance over mineral oils. PAOs (API Group IV) are true synthetics with excellent thermal and oxidation stability, high viscosity index, and low-temperature fluidity, making them ideal for extreme conditions. Esters (API Group V) are polar molecules with a unique attraction to metal surfaces, providing superior detergency, additive solvency, and lubrication for severe applications and compatibility in PAO blends.



Polyalphaolefins (PAOs)

What they are: Non-polar, fully synthetic hydrocarbon fluids made through a controlled chemical process.

Key Characteristics:

- Wide temperature range: Perform well in both extreme cold and high heat conditions.
- Excellent stability: Offer superior thermal and oxidative stability, leading to longer drain intervals.
- High viscosity index: Maintain viscosity better across a range of temperatures compared to mineral oils

Applications:

Widely used in automotive and industrial lubricants, including engine, hydraulic, and compressor oils.

What they are:

A type of synthetic oil (API Group V) with polar molecules.

Key Characteristics:

Polar nature: Attract to positively charged metal surfaces, enhancing lubricity. Excellent detergency: Superior ability to dissolve sludge and engine deposits, improving engine cleanliness. Good solvency: Effectively hold and solubilize additives, improving overall performance.

JHH VACUUM PUMP SERVICE

Vacuum pump service involves repair, maintenance, and servicing for various types of pumps (water ring, rotary vane, scroll, dry, etc.) used in industries like medical labs, pharmaceuticals, manufacturing, and HVAC, with providers in Delhi/NCR offering emergency repairs, routine check ups, part replacement, and overhauls to restore optimal vacuum performance, focusing on sealing, lubrication, and preventing contamination

SERVICES

Repairs & Overhauls: Fixing broken components, replacing seals, bearings, and motor issues.

Preventive Maintenance: Regular inspections, oil changes (for oil-sealed pumps), filter cleaning, and calibration.

Troubleshooting: Diagnosing performance drops, leaks, or unusual noises.

Parts Supply: Providing genuine or compatible replacement parts.

Custom Solutions: Adapting pumps for specific industrial needs.





Vacuum Pump, Vacuum pump Oil, Diffusion Pump Oil, All Water Ring, Vacuum pump, Piston Pump, Oil Sealed Rotary, All Spare Parts & Alltype Vacuum Pump Repairing Centre

Office Address : B-5/49-50,GroundFloor,Sector-5,Delhi-110085.Ph.:9911649911,9999764388
Workshop Address : E-288, Sector-4, DSIDC, Bawana Industrial Area,Delhi-39
E-mail : jhhvpdelhi@gmail.com,Website : www.jaihindvacuumpump.co.in