



CREATIVE ENGINEERS



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WATER RING VACUUM PUMP

Water-ring vacuum pumps are best suited for Pharmaceutical, Food Confectionery, Petro Chemicals, Textiles and Plastic Industries, Paper and Sugar mills, Cement, Metallurgical Laboratories and Furnaces, Refrigeration Plants, Impregnation Plants, Distilleries, Pneumatic Conveying, Cigarette, Tiles and Ceramics Industries etc. These pumps are approved for government, semi government and private industrial projects all over India.



SAILENT FEATURES:-

Dimensions and specifications are approximate and subject to change.

- The power figures are for vacuum pumps only. For water-ring compressors please request further details.
- The vacuum pump performance shown here is referred to 760 mm Hg barometer (sea level). 50% relative humidity with 30°C seal water temperature at 1.5 kg/cm² pressure.
- Guaranteed vacuum up to 710 mm Hg at close suction & 760 mm barometric pressure.
- Higher vacuum can be achieved by using chilled water as seal medium or ejectors.
- Suction capacity mentioned is maximum suction capacity with open suction

WIDE CHOICE OF MATERIALS:-

Standard materials of construction are Cast Iron with semi-steel rotor. Shaft material is stainless steel, Larger size are carbon steel with brass or stainless steel shaft sleeves for wetted parts. Alternate combination materials are available for special application.

Model No.	Motor HP Req.	RPM	Free Air Displacement in M ³ /Hr.	Water Consumption LTR/Min.	Approx weight Bare Pump in Kgs.
MVW-30	3	2850	51	7	34
MVW-50	5	2850	85	9	42
MVW-75	7.5	2850	125	14	50
MVW-100	7.5	1440	170	16	170
MVW-150	10	1440	220	20	185
MVW-200	15	1440	330	30	220
MVW-300	20	1440	440	40	245
MVW-400	30	980	725	60	495
MVW-500	40	980	1080	100	530
MVW-700	60	725	1500	150	910
MVW-900	90	725	2030	200	1080

APPLICATIONS:-

- **Chemical and Pharmaceuical:** In this large scale use is made of liquid ring machines as vacuum pumps and compressors. 1) Filling 2) Distillation 3) Deaeration 4) Filtration 5) Cooling 6) Crystallizing 7) Concentrating 8) Drying 9) Exhaust Gas Compression 10J) Central Vacuum Plants 11) Solvent Recovery 12) Deodorizing 13) Evaporation 14) Gas Recovery 15) Gas recycling 16) Pneumatic transfer 16) Vacuum Separator 17) Vapor Recovery
- **Food Industry :** 1) Degasification of Mineral water 2) Bottling industry 3) Deodorization of Salad oils and fats 4) Sterilization of tea and spices 5) Production of sweets 6) Sausage production 7) Powder conveying 8) Dehydration
- **Tobacco Industry :** 1) Tobacco Humidifier
- **Sugar Industry :** 1) Juice Extraction 2) Distillery
- **Plastic Industry :** 1) Drawing off and compressing Vinyl Chloride (VC) gas 2) Extrusion degasification 3) Vacuum Calibration
- **Treatment Of Water :** 1) Aeration of waters 2) Flushing of filters 3) Water degasification (sewage treatment) Chlorination
- **Wood Industry :** 1) Wood drying plants
- **Pulp and Paper Industry :** 1) Dehydration of paper webs 2) Paper coating
- **Energy production:** 1) Evacuation of steam turbine condensers. 2) Dearation 3) Fly Ash conveying
- **Mining :** 1) Drawing off of pit gas 2) Gas Boosting 3) Vacuum filtration
- **Refineries :** 1) Energy recovery from flare gas 2) petrol production 3) Solid propellants
- **Asbestos and plaster board industry**
- **Clay and ceramic industry :** 1) Brick production 2) Porcelain pressing 3) Drying and degasification of concrete.
- **Steel Industry :** 1) Steel degasification
- **Automobile Industry :** 1) Filling of radiators, brakes, hydraulic systems.
- **Electrical engineering industry :**
- **Medicine :** 1) Central vacuum plants
- **Textile Industry :** 1) Hydro extractor
- **Laboratories :** 1) Central vacuum
- **Marine :** 1) Pneumatic conveying material 2) Pump Priming
- **Packaging :** 1) Labeling 2) Vacuum Packing 3) Filling 4) Bag Manufacturing
- **Other applications :** 1) Priming centrifugal pumps 2) Catalyst loading , unloading 3) Gas Boosting

OIL SEAL HIGH VACUUM PUMP

HIGH VACUUM PUMP: -

MODEL NO	FREE AIR DISPLACEMENT		ULTIMATE VACUUM INCH OF Hg	PRESSURE PSIG	MOTOR REQ H.P.
	L.P.M.	C.F.M.			
DA-75	75	2.5	28"	10	0.25
DA-150	150	5.3	28"	10	0.5
DA-300	300	10.6	26"	10	0.75
DA-500	500	17.5	26"	10	1.0

These are combined Vacuum-cum-Pressure pumps, designed and manufactured for long trouble free operating life. These are basically air-cooled, rotary pumps. Being compact, light weight and easily assembled, they required minimum attention even in continuous operation. Accessories like Vacuum and pressure regulators. Vacuum and pressure gauges, relief valves, inlets filter, exhaust oil baffle etc. are available for different models.



APPLICATIONS:

- Vacuum lifting
- Paper and Label handling in printing and labeling machine
- Evacuation of containers in food-packing
- Vacuum forming
- Air sampling
- Bottle filling

These are of oil-immersed, rotary vane type pumps. The rotor, with two spring loaded vanes, is mounted eccentric in the stator body. As the rotor, rotates the vanes sweep the crescent shape air space twice in each revolution. There is in-built non-return valve which prevents back flow of air.

Manufactured from graded material, all moving parts are precisely machined, ground and assembled with close tolerances. This results in increased efficiency and long trouble free operating life.

ACCESSORIES:-

Air Ballast :- This is a vent pipe introducing air before actual compression which eliminates condensation of the sucked vapour, there by avoiding contamination of oil.

Air Admittance Valve: It is electromagnetic solenoid type which admits air into the system as soon as the power supply fails. This prevents back-flow of oil to the system.

Non-Return Valve: It is rubber diaphragm type, spring loaded valve, which prevents back-flow of oil to the system as soon as pump stops. These can not be used to hold the vacuum in the system for longer period.

- Moisture Trap, Inlet Dust Filter, Vacuum Gauge with Regulator, Trolley for small Pumps.
- USE Oil: ENCL - 46 (HP) SAE - 30 or Equivalent Vacuum Oil.
- Model HL - 300 - II and above, are provided with water cooling jacket.
- Vacuum Measured Mcleod gauge at suction port of the pump.

APPLICATIONS OF OIL FIELD TYPE VACUUM PUMP:-

- Distillation
- Dehydration and filtration processes
- Exhausting Electronic Tubes
- GLS Lamps
- Mercury Vapour Lamps and Tubes
- Vacuum metallurgy
- Vacuum Sublimation
- Vacuum impregnation
- Thin film coating
- Refrigerator and Air conditioner servicing
- Freeze drying of foods.

Model No.	No. of Stages	Free Air Displacement		Ultimate Vacuum mm of Hg.	Drive Motor Req'd. H.P.	Approx. Oil Filling Ltrs.
		Lt./Min.	C.F.M.			
HL - 50	1	50	1.8	0.05	0.25	2
	2	50	1.8	0.005	0.25	2
HL - 100	1	100	3.5	0.05	0.25	2
	2	100	3.5	0.005	0.5	3
HL - 150	1	150	5.3	0.05	0.5	3
	2	150	5.3	0.005	1.0	4
HL - 300	1	300	10.6	0.05	1.0	6
	2	300	10.6	0.005	1.5	8
HL - 500	1	500	17.6	0.05	1.5	7
	2	500	17.6	0.005	2.0	8
HL - 750	1	750	26.5	0.05	2.0	8
	2	750	26.5	0.005	3.0	10
HL - 1000	1	1000	35.3	0.05	2.0	15
	2	1000	35.3	0.005	3.0	20
HL - 1500	1	1500	53.0	0.05	3.0	20
	2	1500	53.0	0.005	5.0	25
HL - 2000	1	2000	70.6	0.05	3.0	25
	2	2000	70.6	0.005	5.0	30
HL - 3000	1	3000	106.0	0.05	5.0	35
	2	3000	106.0	0.005	7.5	40
HL - 5000	1	5000	176.5	0.05	7.5	40
	2	5000	176.5	0.005	10.0	45
HL - 7500	1	7500	265.0	0.05	10.0	60
	2	7500	265.0	0.005	15.0	65
HL - 10000	1	10000	353.0	0.05	15.0	65
	2	10000	353.0	0.005	20.0	75

