

DEKKER HULLVAC ROTARY PISTON VACUUM PUMPS

HullVac™



DEKKER
VACUUM TECHNOLOGIES, INC.

dekkervacuum.com

The Experts in Vacuum Solutions

888.925.5444

DEKKER ISO 9001
VACUUM TECHNOLOGIES, INC. 2015
CERTIFIED

What do you need in a rotary piston vacuum pump? Powerhouse, single stage, A small footprint? Micron range ultimate vacuum? After-sales expertise?

Rotary piston vacuum pump technology is complex. But the purchasing decision is easy. Don't settle for less. Make the perfect choice – DEKKER's HullVac line:

- Single-stage rotary piston vacuum pumps
- Two-stage rotary piston vacuum pumps

HullVac rotary piston vacuum pumps are engineered for a long life, top performance, low maintenance and ease of use. DEKKER offers a comprehensive selection of models with valuable features and expert after-sales service, including a standard three-year warranty – the best in the industry.

HullVac: Upgrade to a Superior Experience of Products and Service.

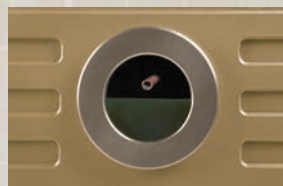
HV Series Single-Stage Rotary Piston Vacuum Pumps (52 to 850 CFM)

Perfect for the toughest industrial environments. An affordable workhorse.

HVC Series Two-Stage Rotary Piston Vacuum Pumps (32 to 340 CFM)

Perfect when a deeper ultimate vacuum is required. Two-stage enhances capacity below 250 microns and allows full gas ballast operation while maintaining micron range blank off.

Metal Belt Guards



Large Sight Glass
Visual oil-flow indicator



▲ HV412XT

DuoVac Multi-Stage Custom Engineered Systems:

DuoVac systems combine the proven technology of the rotary piston with a direct-drive booster utilizing variable frequency drive (VFD) control. This system offers increased pump-down capacity, resulting in quicker pull down and higher ultimate pressure.

HullVac Ram-Dry Technology is used in applications where high vapor loading is present.

Ram-Dry™ technology uses vacuum to boil water at ambient temperature. Water vapor travels through the pump and condenses back to liquid for disposal.

ROTARY PISTON VACUUM PUMP INDUSTRIES:

Aerospace | Automotive | Beverage | Building Supplies - Brick/Clay/Glass/Stone/Wood | Chemical/Petrochemical/Paints/Adhesives | Defense Electronics/Semiconductor | Food | Furniture | Marine | Medical/Health Services | Medical Devices /Prosthetics | Mining | Oil/Gas | Packaging Pharmaceutical | Plastics/Rubber/Composites | Power Generation | Printing | Pulp/Paper/Converting | Steel/Metals | Textile/Leather Waste Water/Municipal

- ▶ DEKKER offers a complete range of accessories and carries a comprehensive inventory of pumps and parts. For emergency repairs, DEKKER takes pride in offering same-day shipping of most standard parts. DEKKER maintains an extensive domestic and global network of authorized service centers.

“Perfect” Pumps Offer Proven Performance

-stage or two-stage performance?
 wise?

Single-Stage Rotary Piston Vacuum Pumps

HullVac Rotary Piston	Nominal Capacity (ACFM)	Motor Size (HP)	Max Vacuum Level (Torr)	Final Pressure (Gas Ballast open) (Torr)	Oil Capacity (Gal)	Pump Speed (RPM)	Cooling Configuration	Cooling Water Flow Rate (GPM) *	Inlet Connection (in.)	Discharge Connection (in.)	Weight (Lbs)
HV55A	52	3	0.0450	1.5000	0.9	620	Air	n/a	2" Flange	1-1/2" Flange	380
HV140A	130	5	0.0450	1.5000	3.3	700	Air	n/a	2-1/2" Flange	2" Flange	800
HV160	150	7.5	0.0450	1.5000	4	555	Air & Water	1.5	3" Flange	2" Flange	1000
HV412XT	300 (340)	10 (15)	0.0450	1.5000	12	635	Air & Water	2.5	4" Flange	3" FNPT	1750
HV450	450	20	0.0450	1.5000	13	560	Air & Water	3.5	4" Flange	3" Flange	2210
HV635	635	30	0.0450	1.5000	15	555	Air & Water	5	6" Flange	4" Flange	2800
HV850	850	40	0.0450	1.5000	25	500	Air & Water	7	8" Flange	5" Flange	3750

Two-Stage Rotary Piston Vacuum Pumps

HVC35A	32	3	0.0075	0.0750	0.9	555	Air	n/a	2" Flange	1-1/2" Flange	380
HVC65	65	5	0.0075	0.0750	2.5	555	Air & Water	1	2-1/2" Flange	2" Flange	750
HVC100A	95	5	0.0075	0.0750	3.3	700	Air	n/a	2-1/2" Flange	2" Flange	800
HVC180	180	10	0.0075	0.0750	6.5	555	Air & Water	2	3" Flange	2-1/2" Flange	1400
HVC340	340	20	0.0075	0.0750	20	615	Air & Water	2.5	4" Flange	3" Flange	2400

Voltage is 208-230/460V for all models listed. Consult factory for other voltages.

*Cooling Water requirement based on 60°F.

IMPROVED MODERN DESIGN

No center-wall bearing | Eliminating this bearing means that the bearing will not be exposed to the pump oil, which could be contaminated leading to reduced bearing life.

Caged Hinge Bars | Design cages all hinge bars in line, reducing wear.

IMPROVED SHAFT SEALING

Hardened Shaft Sleeves with O-ring seal
 Sleeve is replaceable and O-ring sealing prevents leakage.



IMPROVED EXHAUST VALVE DESIGN



No possibility of worn valve components getting into the pumping chamber, which could result in major repairs.

ROBUST VALVE WEAR PLATES



Hardened steel wear plates provide longer life compared to plastic used by the competition.

IMPROVED O-RING SEALING



Side plates feature O-ring seal. Efficient design reduces maintenance time and prevents leakage.



The bottom of the valve deck contains an O-ring seal that is easy to replace. Other designs use paper seals, which are inferior and disintegrate causing plugging.

ROTARY PISTON VACUUM PUMP APPLICATIONS:

Altitude Chambers | Autoclaves | Engine Testing | Filtration | Forming | Freeze Drying | Glass Manufacturing | Heat Treating | Impregnation
 Paper Coating | Perforation printing | Thermoforming | Transformer Oil Purification | Wind Tunnels

Data is subject to change without notice.

Call DEKKER: The Experts in Vacuum Solutions at 888-925-5444 for application expertise.



Process Savings



Energy Savings



Environmental Sustainability



Optimized Performance



Knowledge Base

TITAN®

Single and Two Stage Liquid Ring Vacuum Pumps
6-2,000 CFM

MAXIMA-C™

Large Capacity Conical Liquid Ring Vacuum Pumps
1,000 to 22,000 CFM

MAXIMA-K™

Large Capacity Liquid Ring Vacuum Pumps
1,500 to 39,000 CFM



Oil Sealed Liquid Ring Vacuum Pump Systems
35-5,400 CFM

DuraVane®

Lubricated and Dry Rotary Vane Vacuum Pumps
2-710 CFM

HullVac™

Rotary Piston Vacuum Pumps
17-1,280 CFM

ChemSeal™

Vacuum Pump Systems
15-10,000 CFM

AquaSeal™

Water Sealed Vacuum Pump Systems
15-39,000 CFM

AquaSeal™ POWERGEN®

Vacuum Pump Systems
15-5,000 CFM



Collaborative Engineering from Start-To-Finish

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INCREASE YOUR INDUSTRIAL VACUUM KNOWLEDGE

dekkervacuum.com



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GOLD STANDARD SUPPORT

Your Knowledge-Backed Guarantee. Need help sizing a vacuum pump? Having application problems? With over 100 years of combined experience, we've made it our business to know your needs as well as our systems capabilities. With DEKKER, you get a team of vacuum experts dedicated to helping you resolve system challenges, streamline processes, and optimize results.

Maintenance, service and repair so you keep operating at maximum efficiency.



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