

# DEKKER HULLVAC ROTARY PISTON VACUUM PUMPS

## *HullVac*<sup>™</sup>



**DEKKER**<sup>™</sup>  
VACUUM TECHNOLOGIES, INC.

[dekkervacuum.com](http://dekkervacuum.com)

*The Experts in Vacuum Solutions*

888.925.5444

ISO9001  
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## What do you need in a rotary piston vacuum pump? Powerhouse, single 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.

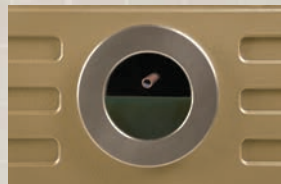
#### HV Series Single-Stage Rotary Piston Vacuum Pumps (52 to 1280 CFM)

Perfect for the toughest industrial environments. An affordable workhorse.

#### HVC Series Two-Stage Rotary Piston Vacuum Pumps (17 to 950 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 APPLICATIONS:

Brake Filling Systems | Brazing | Casting | Chemical Distillation | Chemical Processing | Chemical Vapor Deposition | Coating | Debinderization | Degassing | Diffusion | Liquid Gas Storage | Metallurgy | Metals Processing | PET Processing | Pharmaceuticals | Potting | Research & Development | Roll Coating | Crystal Growing | Sintering

# “Perfect” Pumps Offer Proven Performance

## -stage or two-stage performance?

### Single Stage - Affordable Workhorse Pumps for Tough Industrial Jobs

Model	Motor (HP)	Nominal Capacity (CFM)	Final Pressure (Torr)	Final Pressure (Gas Ballast open) (Torr)	Speed (RPM)	Inlet Connection (In.)	Outlet Connection (In.)	Cooling Configurations	Cooling Water Requirement (Gal/Min)*	Oil Capacity (Gal)	Weight (Lbs.)
HV55A	3	52	0.0450	1.5001	620	2" Flange	1-1/2" Flange	Air	n/a	0.9	380
HV140A	5	130	0.0450	1.5001	700	2-1/2" Flange	2" Flange	Air	n/a	3.3	800
HV160	7.5	150	0.0450	1.5001	555	3" Flange	2" Flange	Water	1.5	4	1000
HV412XT	10 (15)	300(340)	0.0450	1.5001	560 (635)	4" Flange	3" FNPT	Water	2.5	12	1750
HV450	20	450	0.0450	1.5001	615	4" Flange	3" Flange	Water	3.5	13	2210
HV635	30	635	0.0450	1.5001	555	6" Flange	4" Flange	Water	5	15	2800
HV850	40	850	0.0450	1.5001	500	8" Flange	5" Flange	Water	7	25	3750

### Two Stage - Higher Ultimate Pressure at Single-Stage Price

Model	Motor (HP)	Nominal Capacity (CFM)	Final Pressure (Torr)	Final Pressure (Gas Ballast open) (Torr)	Speed (RPM)	Inlet Connection (In.)	Outlet Connection (In.)	Cooling Configurations	Cooling Water Requirement (Gal/Min)*	Oil Capacity (Gal)	Weight (Lbs.)
HVC35A	3	32	0.0075	0.0750	555	2" Flange	1-1/2" Flange	Air	n/a	0.9	380
HVC65	5	65	0.0075	0.0750	555	2-1/2" Flange	2" Flange	Water	1	2.5	750
HVC100A	5	95	0.0075	0.0750	700	2-1/2" Flange	2" Flange	Air	n/a	3.3	800
HVC180	10	180	0.0075	0.0750	555	3" Flange	2-1/2" Flange	Water	2	6.5	1400
HVC340	20	340	0.0075	0.0750	615	4" Flange	3" Flange	Water	2.5	20	2400

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

\*Cooling Water requirement based on 60°F.

Data is subject to change without notice

### 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.

Pump Holding | Drying Chambers | Evacuation | Forming | Freeze Drying | Impregnating | Investment Casting | Leak Detection | Light Bulb Manufacturing  
g | Transformer Drying | Vacuum Coating | Vacuum Furnaces | Vacuum Heat Treating | Vacuum Melting | Vacuum Metalizing | Vacuum Packaging

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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 - 22,000 CFM

# MAXIMA-K™

Large Capacity  
Liquid Ring Vacuum Pumps  
1,500 - 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  
32 - 850 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



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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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