

ROTARY VANE VACUUM PUMPS & SYSTEMS

DuraVane™



◀ **DuraVane**
212 CFM stack-mounted triplex
system for medical applications

DuraVane ▶
Rotary vane vacuum
pump systems available
in a large variety
of configurations



DuraVane ▶
lubricated rotary
vane vacuum pumps



◀ **DuraVane^{HV}**
high vacuum lubricated
rotary vane vacuum pumps



DuraVane ▶
oil-free (dry) rotary
vane vacuum pumps



 **DEKKER**[™]
VACUUM TECHNOLOGIES, INC.

dekkervacuum.com

The Experts in Vacuum Solutions

888.925.5444

ISO9001
CERTIFIED

DuraVane™ LUBRICATED rotary vane vacuum pumps

Performance characteristics rotary vane vacuum pumps

Rotary Vane Vacuum Pumps	Displacement (CFM)	Final pressure (Torr)	Motor (kW/HP)				Speed (RPM)		Noise (at 3 ft) (dBA)	Weight bare-shaft	
			50 Hz		60 Hz		50Hz	60Hz		Kg	Lbs
			kW	HP	kW	HP					
Lubricated Pumps											
RVL002H	2	1.5	0.15	0.2	0.15	0.2	2900	3400	60	5.5	12
RVL003H	2.6	1.5	0.15	0.2	0.15	0.2	2900	3400	60	5.5	12
RVL006H	5.6	1.5	0.3	0.4	0.3	0.4	2900	3400	60	10	22
RVL010H	8.5	1.5	0.55	0.75	0.55	0.75	2900	3400	62	16	35
RVL014H	12.7	1.5	0.75	1	0.93	1.25	2900	3400	67	19	42
RVL020H	19	0.5	0.75	1	0.92	1.25	1450	1800	65	25	55
RVL031H	28	0.1	1.1	1.5	1.5	2	1450	1800	66	47	102
RVL051H	45	0.1	1.5	2	2.2	3	1450	1800	68	45	98
RVL076H	75	0.1	2.2	3	3	4	1450	1800	68	70	155
RVL111H	106	0.1	3	4	3.7	5	1450	1800	70	80	176
RVL145HH	145	0.4	4	5.5	5.5	7.5	1450	1800	74	155	340
RVL212HH	212	0.4	5.5	7.5	7.5	10	1450	1800	76	164	361
RVL301HH	285	0.4	7.5	10	11	15	1450	1800	79	336	740
RVL301LH	285	7.5	7.5	10	11	15	1450	1800	79	336	740
RVL401HH	380	0.4	11	15	15	20	1450	1800	80	359	790
RVL401LH	380	7.5	11	15	15	20	1450	1800	80	359	790
RVL475HH	465	0.075	15	20	18.5	25	980	1200	79	725	1600
RVL475LH	465	0.375	15	20	18.5	25	980	1200	79	725	1600
RVL700HH	710	0.5	22	30	30	40	980	1200	81	955	2100
RVL700LH	710	15	22	30	30	40	980	1200	81	955	2100
Lubricated pumps for saturated air (wet) service											
RVL020W	19	1.5	0.75	1	0.92	1.25	1450	1800	65	25	56
RVL031W	28	3	1.1	1.5	1.5	2	1450	1800	66	42	93
RVL051W	45	3	1.5	2	2.2	3	1450	1800	68	44	97
RVL076W	70	3	2.2	3	3	4	1450	1800	68	71	157

Note: by adding DEKKER vacuum boosters, the capacity range can be extended to 5000 CFM

DESIGN FEATURES

- Heavy-duty construction
- Compact design, small footprint
- High-tech vane material provides long vane life
- Gas ballast valve is standard on most models
- Low noise level
- Low maintenance
- Air-cooled design is standard
- Internally mounted inlet check valve
- High efficiency multi-stage exhaust filter removes 99.9% of exhaust smoke
- Direct drive with flange-mounted motor
- Simple to install

... Well-designed, reliable and economically priced

DuraVane lubricated rotary vane vacuum pumps: single-stage pumps with an integrated oil-recirculation system, used in a variety of industries such as vacuum packing, lifting, chucking, paper converting, electronics, printing, biotech, laboratories and hospitals.

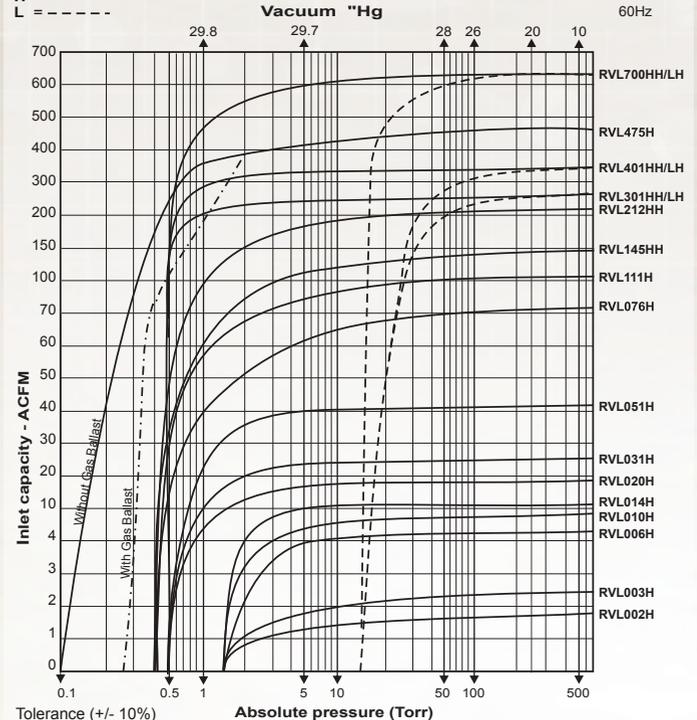
DuraVane lubricated rotary vane vacuum pumps for saturated air (wet) service are specifically developed for applications with high inlet water vapor content such as stone and glass cutting.



Performance curves DuraVane lubricated rotary vane pumps

Based on 29.92" Hg barometric pressure, inlet temperature 70°F.

H = _____
L = _____



▶ 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.

DuraVane™ OIL-FREE (DRY) rotary vane vacuum pumps

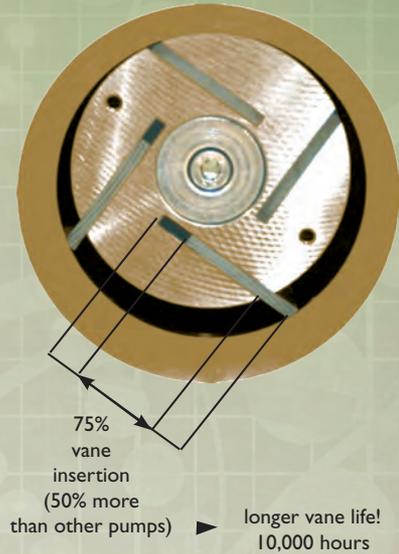
Performance characteristics rotary vane vacuum pumps

Rotary Vane Vacuum Pumps	Displacement (CFM)	Final pressure (Torr)	Motor (kW/HP)				Speed (RPM)		Noise (at 3 ft) (dBA)	Weight bare-shaft	
			50 Hz		60 Hz		50Hz	60Hz		Kg	Lbs
			kW	HP	kW	HP					
Oil-free (dry) pumps											
RVD002L	2	90	0.18	0.25	0.18	0.25	2900	3400	62	5	11
RVD004L	4.2	90	0.3	0.4	0.3	0.4	2900	3400	62	8	18
RVD007L	7	90	0.44	0.6	0.44	0.6	1450	1800	65	15	34
RVD012L	12	90	0.55	0.75	0.75	1	1450	1800	65	30	65
RVD018L	18	90	0.75	1	0.92	1.25	1450	1800	68	30	65
RVD028L	28	90	1.5	2	1.85	2.5	1450	1800	72	40	88
RVD040L	42	90	1.5	2	2.2	3	1450	1800	72	71	156
RVD060L	56	90	2.2	3	3.7	5	1450	1800	74	74	162
RVD075L	71	75	3	4	3.7	5	1450	1800	77	93	205



DuraVane 100% oil-free (dry) rotary vane vacuum pumps: air-cooled, heavy-duty, non-lubricated pumps for vacuum applications in a variety of industries such as printing, woodworking, paper converting and vacuum chucking and lifting.

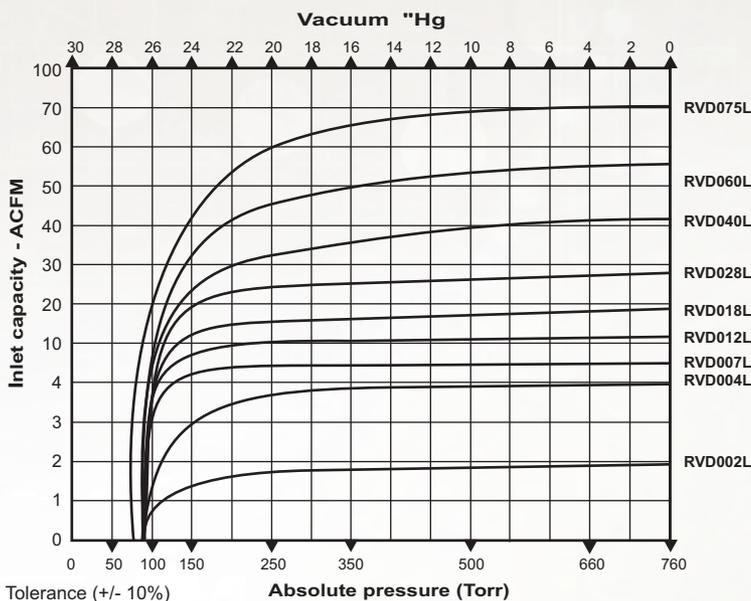
...Exclusive design:
fewer vanes,
longer vane life



DESIGN FEATURES

- Fewer vanes than other oil-free rotary vane vacuum pumps
- High-tech, self-lubricating, long-life graphite composite vane material
- Longer vane life and less vane replacement, lower maintenance cost
- Built-in inlet filter for models of 1HP and higher
- Heavy-duty construction
- Direct drive
- Low noise level
- Air-cooled design
- Compact design

Performance curves **DuraVane** oil-free (dry) rotary vane pumps
Based on 29.92" Hg barometric pressure, inlet temperature 70°F.



DuraVane oil-free (dry) rotary vane compressors are available in capacities from 2 – 95 CFM (0.2 – 10 HP), maximum pressure up to 15 psig. These are heavy-duty, motor-mounted units, extremely reliable for industrial applications.

DuraVane™ rotary vane vacuum pump SYSTEMS

... Well-designed, reliable and economically priced

Rotary vane vacuum pump systems are available in multiple configurations, such as stack-mounted, base-mounted or tank-mounted units.

DEKKER supplies NFPA 99 compliant medical packages for hospitals and laboratories as well as standard industrial packages in capacities ranging from 2.2-710 CFM per pump.

All multi-pump systems are equipped with a microprocessor, eliminating vacuum switches.

Applications engineers at DEKKER Vacuum Technologies offer expertise based on years of experience in the vacuum industry, and are available to answer any questions you may have.



DuraVane

Duplex vertical tank-mounted rotary vane vacuum pump system, NFPA 99 compliant for medical applications.



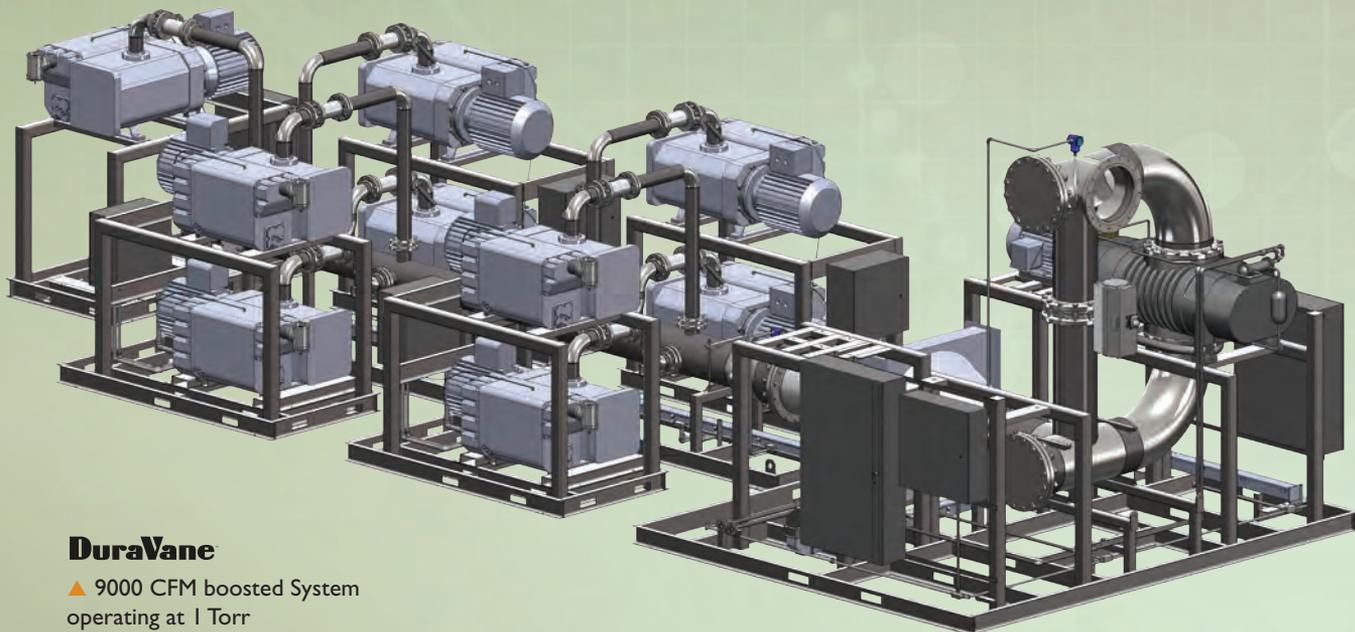
DuraVane

Duplex base-mounted NFPA 99 compliant rotary vane pump systems for medical applications.



DuraVane

Custom-engineered, rotary vane vacuum pump system for solvent recovery in pharmaceutical application.



DuraVane

▲ 9000 CFM boosted System operating at 1 Torr

Data is subject to change without notice.

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

DuraVane^{HV} HIGH VACUUM rotary vane pumps

DuraVane^{HV} high vacuum rotary vane pumps are available in 6 models (RVR series) covering pumping speeds from 1.4 – 6 CFM and pressures down to 7.5×10^{-3} , 4 models (RVH series) covering pumping speeds from 2 – 12 CFM and ultimate blank-off pressure down to 3.8×10^{-3} Torr (total final pressures unless otherwise specified).

These units are specifically designed to provide reliability, higher ultimate vacuum, easy installation and operation as well as low maintenance.

Pumps are suitable for a variety of applications such as freeze drying, laboratory vacuum, distillation, TV tube and light bulb manufacturing, semiconductor industry, refrigeration, electronics, etc., where smaller pumps with higher ultimate vacuum are required.

...Excellent ultimate vacuum, easy installation, operation and low maintenance



DESIGN FEATURES

- Heavy-duty construction
- Compact design
- Multi-frequency motor
- Gas balast standard
- Low noise level
- Low maintenance
- Air-cooled design
- Direct drive
- Simple to install

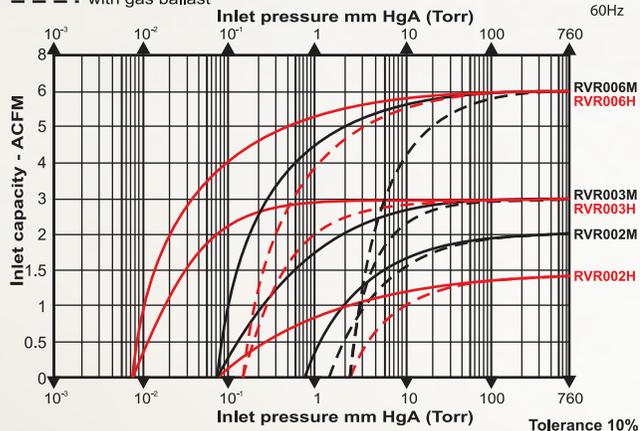
Performance characteristics high vacuum rotary vane pumps

DuraVane ^{HV} System Model Number	Displacement (CFM)	Total final pressure (Torr)	Partial final pressure (McLeod) (Torr)	Total final pressure with gas balast (Torr)	Motor 60Hz (HP)	Speed (RPM)	Noise (at 3ft) (dBA)	Weight (Lbs)
DuraVane^{HV} high vacuum rotary vane pumps down to 7.5×10^{-3} Torr*								
RVR002M	2	7.5×10^{-1}	3.8×10^{-1}	1.5	0.25	3500	64	12
RVR002H	1.4	7.5×10^{-2}	3.8×10^{-2}	2.3	0.25	3500	64	14
RVR003M	3	7.5×10^{-2}	3.8×10^{-2}	2.3	0.5	1800	54	24
RVR003H	3	7.5×10^{-3}	3.8×10^{-3}	1.5×10^{-1}	0.5	1800	54	27
RVR006M	6	7.5×10^{-2}	3.8×10^{-2}	2.3	0.5	1800	54	28
RVR006H	6	7.5×10^{-3}	3.8×10^{-3}	1.5×10^{-1}	0.5	1800	54	30
DuraVane^{HV} high vacuum rotary vane pumps down to 3.8×10^{-3} Torr*								
RVH002H	2	3.8×10^{-3}	3.8×10^{-4}	1.5×10^{-1}	0.5	3500	54	22
RVH004H	3.8	3.8×10^{-3}	3.8×10^{-4}	2×10^{-1}	1.25	1800	54	51
RVH006H	6	3.8×10^{-3}	3.8×10^{-4}	1.5×10^{-1}	1.25	1800	54	53
RVH012H	12	3.8×10^{-3}	3.8×10^{-4}	6×10^{-2}	1.25	1800	54	58

* = Total final pressure unless other

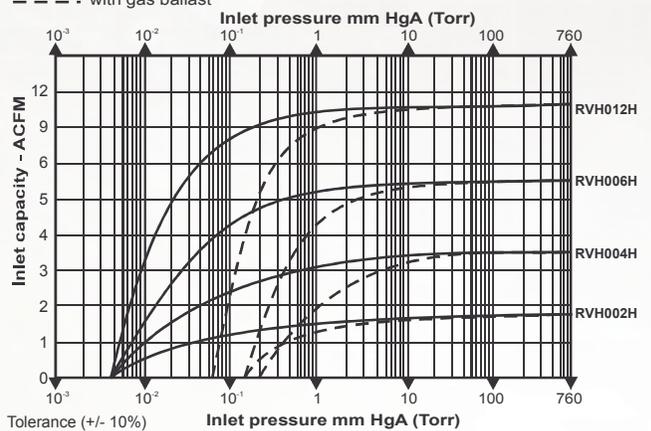
Performance curves DEKKER DuraVane^{HV} high vacuum rotary vane pumps down to 7.5×10^{-3} Torr.

Based on 760 mm Hg (Torr) barometric pressure, inlet temperature 70°F. --- with gas balast



Performance curves DEKKER DuraVane^{HV} high vacuum rotary vane pumps down to 3.8×10^{-3} Torr.

Based on 760 mm Hg (Torr) barometric pressure, inlet temperature 70°F. --- with gas balast





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



Collaborative Engineering from Start-To-Finish

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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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