

Single & Two-Stage Liquid Ring Vacuum Pumps

 **DEKKER**
VACUUM TECHNOLOGIES



titan 

DEDICATED. DEPENDABLE. DYNAMIC. DEKKER.

DEKKER®: Dependable Design. Durable Build.

Maximum efficiency single-stage design:

DEKKER offers the TITAN single-stage high-efficiency liquid ring vacuum pumps, capable of vacuum levels up to 29" HgV. The pump features a variable discharge port design, which adjusts automatically to the internal compression ratio of the vacuum pump resulting in maximum efficiency throughout the vacuum range. Advanced fluid dynamics result in high volumetric efficiency with 50% less seal-liquid requirement.

Maximum efficiency two-stage design:

The DEKKER TITAN two-stage liquid ring vacuum pumps offer excellent efficiency when pumping saturated vapors at vacuum levels from 25" up to 29" HgV. The two-stage pump operates more efficiently than the single-stage design when pumping mixtures of air and condensable vapors above 25" HgV.

No internal bearings:

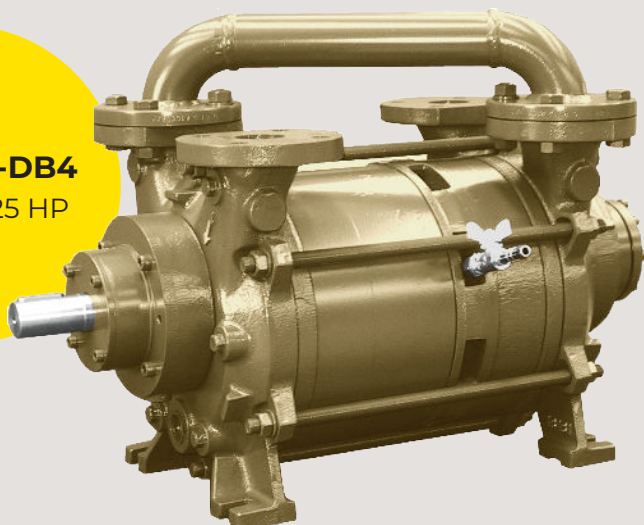
Bearings are located external to the pumping chamber and are grease lubricated. This is a major benefit compared to oil lubricated vacuum pumps with internal bearings, because of the effect that contaminated lubricants have on the life of bearings and internal pump parts.



**Titan
DV0450D-KA3**
410 CFM, 25 HP
29 "Hg



**Titan
DV0035D-KA3**
35 CFM, 3 HP
29 "Hg



**Titan
DV0301D-DB4**
300 CFM, 25 HP
29 "Hg

Features & Benefits

NO METAL-TO-METAL CONTACT:

The design of the liquid ring vacuum pump is most noted for its ability to handle soft solids and entrained liquids or vapors without causing damage to the pump. This is because there is no metal-to-metal contact between the rotating parts and the casing, eliminating the need for internal lubrication. Liquid ring pumps may be sealed with a variety of liquids such as water, solvents, oil or other process compatible fluids.

HEAVY-DUTY DESIGN:

DEKKER liquid ring vacuum pumps are built to ISO9001 quality standards. Rigid impellers fitted on a heavy-duty shaft, supported by oversized radial bearings offer reliable operation under the most adverse conditions. Mechanical shaft seals are standard on DEKKER liquid ring vacuum pumps.

LOW NOISE LEVELS:

Most liquid ring pumps operate at speeds of 1800 RPM or less. For this reason and because the pump has no metal-to-metal contact, liquid ring pumps are among the quietest pumps in the industry with noise levels in the 68 - 80 dBA range.

Technical Specifications

Single-stage Liquid Ring Vacuum Pumps							
Single-stage design	Nominal capacity (ACFM)	Motor Size (HP) 60Hz	Max Vacuum Level ("HgV)	Pump Speed (RPM)	Cooling Water Flow Rate (GPM)	Noise (at 3ft) (dBA)	Weight bare-shaft (Lbs)
Single-stage motor-mounted design = -MA							
DV0006B-MA	6	0.75	28.5	3500	1	68	24*
DV0020DB-MA	20	1.5	29	3500	0.75	68	35*
DV0035DB-MA	35	3	29	3500	1.5	70	55*
DV0060D-MA	60	5.5	29	1750	3.5	73	210*
DV0080D-MA	75	5.5	29	1750	4	73	232*
DV0100D-MA	100	7.5	29	1750	4	74	275*
DV0150D-MA	150	10	29	1750	4.5	74	310*
Single-stage monoblock design = -KA							
DV0020B-KA	20	1.5	29	3500	0.75	68	48
DV0035B-KA	35	3	29	3500	1.5	70	62
DV0060D-KA	60	5	29	1750	3.5	73	176
DV0080D-KA	75	5	29	1750	4	73	180
DV0100D-KA	100	7.5	29	1750	4	74	183
DV0150D-KA	150	10	29	1750	4.5	74	262
DV0200D-KA	200	15	29	1750	6	75	282
DV0300D-KA	300	20	29	1750	6	75	297
Single-stage bare-shaft pedestal design = -PA - Single-stage bare-shaft design = -KA							
DV0020B-PA	20	1.5	29	3500	0.75	68	40
DV0035B-PA	35	3	29	3500	1.5	70	52
DV0060D-PA	60	5	29	1750	3.5	73	160
DV0080D-PA	75	5	29	1750	4	73	165
DV0100D-PA	100	7.5	29	1750	4	74	167
DV0150D-PA	150	10	29	1750	4.5	74	231
DV0200D-PA	200	15	29	1750	6	75	251
DV0300D-PA	300	20	29	1750	6	75	266
DV0450D-KA	410	25	29	1750	11	76	455
DV0550D-KA	550	40	29	1750	13	78	517
DV0750D-KA	750	40-50	29	1170	25	79	880
	1000	60	29	960	25	80	1023
	1100	75	29	1100	25	80	1023
DV1200D-KA	1200	100	29	1200	25	80	1023

Two-stage Liquid Ring Pumps							
Two-stage design	Nominal capacity (ACFM)	Motor Size (HP) 60Hz	Max Vacuum Level ("HgV)	Pump Speed (RPM)	Cooling Water Flow Rate (GPM)	Noise (at 3ft) (dBA)	Weight bare-shaft (Lbs)
DV0016B-DA	15	2	28.7	3500	1.5	66	50
DV0036B-DA	35	3	28.7	3500	1.5	66	55
DV0041B-DA	40	5	29	3500	3.75	66	66
DV0076B-DA	75	5	29	1750	4	68	148
DV0101B-DA	100	7.5	29	1750	4	68	154
DV0141B-DA	140	10	29	1750	4	68	172
DV0201B-DA	200	15	29	1750	10	73	290
DV0251B-DA	250	20	29	1750	12	73	315
DV0301B-DA	300	25	29	1750	16	74	330
DV0401B-DA	400	25-40	29	1750	14	79	495
DV0501B-DA	500	40-50	29	1750	15	79	539
DV0751B-DA	800	50-75	29	1150	35	82	1345
DV0951B-DA	1000	60-100	29	1150	40	82	1532



Service & Support

At Dekker® Vacuum Technologies, we are committed to optimizing your industrial processes and minimizing downtime. This means providing unrivaled customer service and support through the entire process, from helping you choose the ideal pump for your application to providing the maintenance needed to keep your business growing strong. To ensure the longest life cycle of your vacuum pumps, we highly encourage all our customers to follow the manufacturer maintenance recommendations and using genuine OEM Dekker® spare parts and oils.

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