

## TRIVAC A Rotary Vane Pumps Reference Guide

Model	Nominal Displacement (CFM) @ 60Hz	Ultimate Partial Pressure (Torr) w/ Gas Ballast Closed	Connection Ports (KF)	Max Dimensions LxWxH (in)	Motor (HP)	Oil Capacity (qts)	Weight (lbs)
D2A	2.2	3x10 <sup>-4</sup>	16	19 x 9 x 10	1/3	0.50	41
D4A	4.5	3x10 <sup>-4</sup>	16	20 x 9 x 10	1/3	0.75	45
D8A	7.0	3x10 <sup>-4</sup>	25	22 x 9 x 12	0.75/1.0	1.00	80
D16A	14.1	3x10 <sup>-4</sup>	25	24 x 9 x 12	0.75/1.0	1.25	85
D30A	26.8	3x10 <sup>-4</sup>	40	28 x 12 x 14	2.0/1.5	3.50	196
D60A	36.7	3x10 <sup>-4</sup>	40	34 x 12 x 14	2.0/3.0	4.00	226

NOTES: 1. Dimensions rounded to next higher inch.  
 2. Pump rotational speed = 1800 RPM (NOM) except: D60A = 1200 RPM (NOM).  
 3. Oil capacity shown for hydrocarbon oil. To determine *inert* (PFPE) oil capacity in pounds: multiply oil capacities listed above by 4.

### Electrical Motor Characteristics

Pump Type	Voltage/Phase/Frequency	HP	Full Load Amp	Part No.
D2A	115/200-230/1/60	1/3	6.0/3.0-3.0	898000
	110/200-220/1/50	1/3	6.4/3.2-3.2	898001
	208-230/460/3/60	1/3	1.7/0.85	898003
	208-220/380/3/50	1/3	1.7/0.85	898003
D4A	115/200-230/1/60	1/3	6.0/3.0-3.0	898010
	110/200-220/1/50	1/3	6.4/3.2-3.2	898011
	208-230/460/3/60	1/3	1.7/0.85	898013
	208-220/380/3/60	1/3	1.7/0.85	898013
D8A	115/208-230/1/60	3/4	9.4/4.8-4.7	898020
	110/200-220/1/50	3/4	13.0/5.5-6.5	898021
	208-230/460/3/60	1	3.4-3.7/1.9	898023
	208-220/380/3/50	1	3.4-3.7/1.9	898023
D16A	115/208-230/1/60	3/4	9.4/4.8-4.7	898030
	110/200-220/1/50	3/4	13.0/5.5-6.5	898031
	208-230/460/3/60	1	3.4-3.7/1.9	898033
	208-220/380/3/50	1	3.4-3.7/1.9	898033
D30A	200-230/1/60	2	12.0-10.0	898041
	200-220/1/50	2	10-12.2	898041
	208-230/460/3/60	1 1/2	4.9-4.8/2.4	898043
	208-220/380/3/50	1 1/2	4.9-4.8/2.4	898043
D60A	208-230/416-460/3/60	2	6.8/3.4	898053
	208-230/416-460/3/60	2	6.8/3.4	898054
	208-230/416-460/3/60	2	6.8/3.4	898153
	208-230/416-460/3/60	2	6.8/3.4	898154
	200-220/380/3/50	3	9.9-10.4/5.0	898251

Note: All values are nominal and may differ with motor manufacturer.  
 Values are subject to change by Leybold Vacuum Products Inc.

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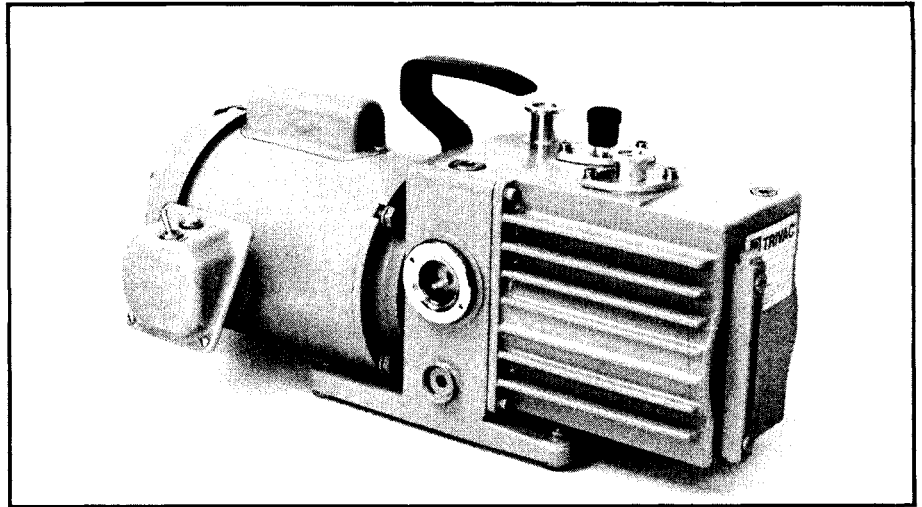


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# TRIVAC® A Rotary Vane Pumps

## Models D2A, D4A

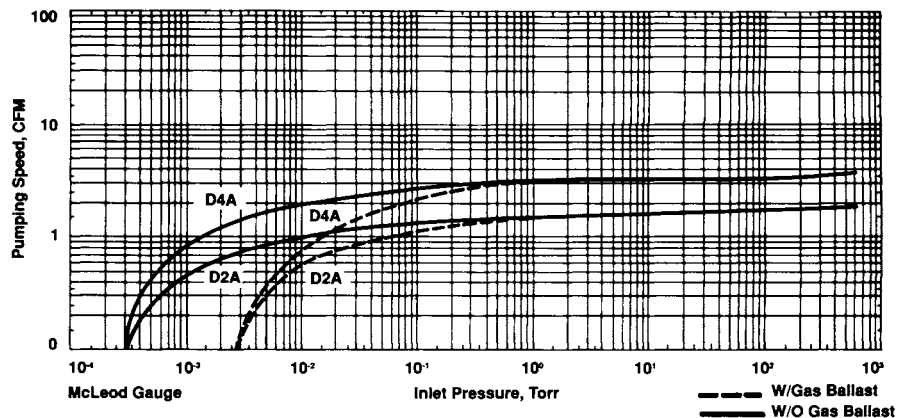


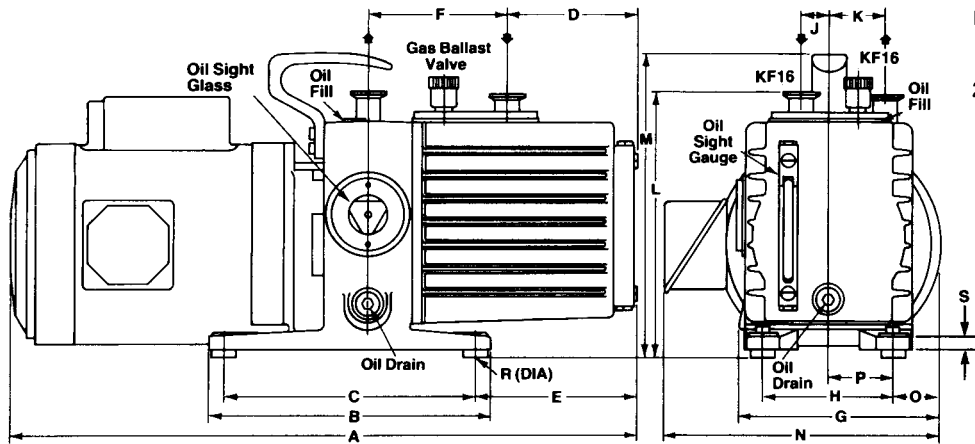
### Technical Data

Performance Characteristics	D2A	D4A
Nominal Displacement .....60 Hz (50 Hz) CFM	2.2 (1.9)	4.5 (3.8)
Pumping Speed .....60 Hz (50 Hz) CFM	1.7 (1.5)	3.3 (2.8)
Ultimate Partial Pressure with Gas Ballast Closed .....Torr	$3 \times 10^{-4}$	$3 \times 10^{-4}$
Ultimate Total Pressure with Gas Ballast Open .....Torr	$3 \times 10^{-3}$	$3 \times 10^{-3}$
Water Vapor Tolerance .....Torr	30	15
Oil Capacity .....qt	0.5	0.75
Motor Power .....HP	1/3	1/3
Pump Rotational Speed (Nominal) .....RPM	1800	1800
Weight .....lb	41	45
Noise Level (Max) at Three Feet with Gas Ballast Closed .....dB(A)	50	50
Noise Level (Avg) at Three Feet with Gas Ballast Open .....dB(A)	54	56

Note: To determine liters per minute Nominal Displacement multiply CFM by 28.3.

### Performance Curves





Notes

1. Add 5/32 inch for centering ring (inlet and exhaust).
2. Clamp and centering ring supplied on inlet and exhaust.

Dimensional Data

Dimensions, Inches (mm)

Pump Type	A*	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R**	S
D2A	18 1/2 (470)	9 (228)	7 7/8 (200)	2 25/32 (71)	3 27/32 (98)	4 7/16 (112)	6 7/16 (163)	4 3/16 (106)	2 9/32 (23)	12 5/32 (45)	8 1/2 (216)	9 3/4 (247)	8 13/16 (224)	1 1/2 (37.5)	2 3/32 (53)	1/4 (6)	7/8 (22)
D4A	19 7/8 (504.5)	9 (228)	7 7/8 (200)	4 5/32 (105.5)	5 7/32 (132.5)	4 7/16 (112)	6 7/16 (163)	4 3/16 (106)	2 9/32 (23)	12 5/32 (45)	8 1/2 (216)	9 3/4 (247)	8 13/16 (224)	1 1/2 (37.5)	2 3/32 (53)	1/4 (6)	7/8 (22)

\*Maximum Length: sizes vary with motor size    \*\* Thru hole (4 places)

Ordering Information

Model	HP	Voltage (AC)	Freq. (HZ)	Phase (Ø)	Wired For	Catalog No.
D2A	1/3	115/200-230	50/60	1	115	898000
2.2 CFM (62 ltr/min)	1/3	115/200-230	50/60	1	200/230	898001
	1/3	208-230/460	60	3	-	898003
		200-220/380	50			
D4A 4.5 CFM (127 ltr/min)	1/3	115/200-230	50/60	1	115	898010
	1/3	115/200-230	50/60	1	200/230	898011
		208-230/460	60	3	-	898013
			200-220/380			

- 1) Voltages indicated as 115/200-230 and 208-230 are spread voltage type motors. The 115/200-230 VAC motor can operate at 115 VAC or from 200 to 230 VAC. The 208-230 VAC motor can operate from 208 to 230 VAC.
- 2) Pumping capacities indicated under models above are for 60 cycle motors. See chart on page 1.11 for data on 50 cycle motors.

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D2A, D4A

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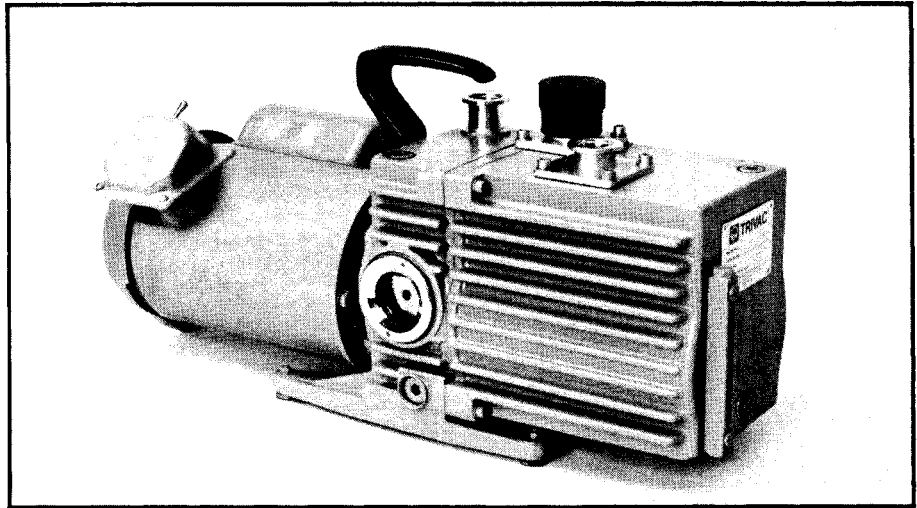
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**TRIVAC® A Rotary  
Vane Pumps**  
Models D8A, D16A



**Technical Data**

Performance Characteristics	D8A	D16A
Nominal Displacement .....60 Hz (50 Hz) CFM	7.0 (5.9)	14.1 (11.8)
Pumping Speed .....60 Hz (50 Hz) CFM	5.3 (4.5)	10.7 (8.9)
Ultimate Partial Pressure with Gas Ballast Closed .....Torr	$3 \times 10^{-4}$	$3 \times 10^{-4}$
Ultimate Total Pressure with Gas Ballast Open .....Torr	$3 \times 10^{-3}$	$3 \times 10^{-3}$
Water Vapor Tolerance .....Torr	30	15
Oil Capacity .....qt	1.0	1.25
Motor Power.....HP	0.75/1.0	0.75/1.0
Pump Rotational Speed (Nominal) .....RPM	1800	1800
Weight .....lb	80	85
Noise Level (Max) at Three Feet with Gas Ballast Closed .....dB(A)	57	60
Noise Level (Avg) at Three Feet with Gas Ballast Open .....dB(A)	60	62

Note: To determine liters per minute Nominal Displacement multiply CFM by 28.3.

**Performance Curves**

