



# PROVAC

## SALES

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# Leybold D-2A, D-4A, D-8A, D-16A, D-30A

## Technical Specifications

Pump Model	D2A	D4A	D8A	D16A	D30A
Displacement . . . . CFM	2.2	4.5	7.0	14.1	26.8
Displacement . . . . liters/minute	62.5	127	190	400	760
Ultimate partial pressure . . . . Torr	$3 \times 10^{-4}$	$3 \times 10^{-4}$	$3 \times 10^{-4}$	$3 \times 10^{-4}$	$3 \times 10^{-4}$
Ultimate pressure with gas ballast . . . . Torr	$3 \times 10^{-3}$	$3 \times 10^{-3}$	$3 \times 10^{-3}$	$3 \times 10^{-3}$	$3 \times 10^{-3}$
Water vapor tolerance . . . . Torr	30	15	30	15	40
Oil Capacity . . . . . quarts (Hydrocarbon) . . . . . lbs (perfluoropolyether)	0.5 2.5	0.75 3	1 4.2	1.25 5	3.5 13.7
Motor power . . . . hp	1/3	1/3	1	1	1-1/2
Pump rotational speed . . . . RPM	1725	1725	1725	1725	1725
Weight complete . . . . lb	41	45	80	85	163
Sound pressure level (max) at three feet with gas ballast closed . . . . dB(A)	50	50	60	62	59
Sound pressure level (ave) at three feet with gas ballast open . . . . dB(A)	54	56	57	60	62
Intake tube and exhaust port diameter . . . . mm	KF 16	KF 16	KF 25	KF 25	KF 40
Maximum ambient temperature	104°F (40°C)				

## Applications

- vacuum chucking • electronic tube evacuation • vacuum metallurgy • thin film applications • light bulb evacuations
- refrigeration & air conditioning • freeze drying



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## Dimensions

Pump Model		D2A	D4A	D8A	D16A	D30A
Minimum Rotor Length (mm)	S <sup>a</sup>	34.970	34.970	44.960	44.960	74.921
	HV <sup>a</sup>	34.970	69.970	44.960	89.960	74.921
Maximum Bushing Diameters (mm)	F <sup>b</sup>	12.027	12.027	15.027	15.027	22.033
	C <sup>b</sup>	12.027	12.027	15.043	15.043	22.070
	R <sup>b</sup>	12.027	12.027	15.027	15.027	22.033
Minimum Shaft Diameter at Points of Wear (mm)		11.992	11.992	14.992	14.992	21.991
Second Stage Vane Dimensions (mm)	L <sup>c</sup> max.	34.991	34.991	44.991	44.991	74.990
	L <sup>c</sup> min.	34.980	34.980	44.980	44.980	74.971
	T <sup>c</sup> max.	4.47	4.47	4.47	4.47	4.47
	T <sup>c</sup> min.	4.445	4.445	4.445	4.445	4.440
High Vacuum Stage Vane Dimensions (mm)	L <sup>c</sup> max.	34.991	69.990	44.991	89.988	74.990
	L <sup>c</sup> min.	34.980	69.977	44.980	89.973	74.971
	T <sup>c</sup> max.	4.47	4.47	4.47	4.47	4.47
	T <sup>c</sup> min.	4.445	4.445	4.445	4.445	4.440
Maximum Inside Diameter <sup>d</sup> of Pump Cylinders (mm)		54.830	54.830	78.630	78.630	118.535

a — S = second stage pump cylinder; HV = high vacuum stage pump cylinder.

b — F = front bushing; C = center bushing; R = rear bushing.

c — L = length; T = thickness; max. = maximum; min. = minimum.