



Leybold D-40B, D-65B

Technical Specifications

		TRIVAC D 40 B two-stage		TRIVAC D 65 B two-stage	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h (cfm)	46 (27)	55 (32.5)	75 (44)	90 (53)
Pumping speed ¹⁾	m ³ /h (cfm)	40 (24)	48 (28)	65 (38)	78 (46)
Ultimate partial pressure without gas ballast ¹⁾	mbar (Torr)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)
Ultimate total pressure without gas ballast ¹⁾	mbar (Torr)	< 2 x 10 ⁻³ (< 1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (< 1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (< 1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (< 1.5 x 10 ⁻³)
Ultimate total pressure with gas ballast ¹⁾	mbar (Torr)	< 5 x 10 ⁻³ (< 3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (< 3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (< 3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (< 3.8 x 10 ⁻³)
Water vapor tolerance ¹⁾	mbar (Torr)	40 (30)	40 (30)	40 (30)	40 (30)
Water vapor capacity	g/h (lbs/h)	1185 (2.612)	1420 (3.131)	1925 (4.244)	2310 (5.093)
Oil filling, min. / max.	l (qt)	1.7 / 2.6 (1.8 / 2.7)	1.7 / 2.6 (1.8 / 2.7)	2.0 / 3.3 (2.1 / 3.5)	2.0 / 3.3 (2.1 / 3.5)
Noise level ²⁾ to DIN 45 635, without / with gas ballast	dB(A)	57 / 59	57 / 59	57 / 59	57 / 59
Admissible ambient temperature	°C (°F)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)
Motor rating 50/60 Hz ²⁾	W (HP)	2200 (3.0)	2200 (3.0)	2200 (3.0)	2200 (3.0)
Nominal speed ²⁾	rpm	1420	1710	1420	1710
Type of protection	IP	3)	3)	3)	3)
Weight ²⁾	kg (lbs)	72.5 (160)	72.5 (160)	81.7 (180)	81.7 (180)
Connections, Intake and Exhaust	DN	40 KF	40 KF	40 KF	40 KF

¹⁾ To DIN 28 400 and following numbers

²⁾ Motor rating and noise levels for the pumps with AC motor 50 Hz.

Any data that deviate from the above for pumps with other motors, and other motor-dependent data are given in chapter "Products", paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"

³⁾ See paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"



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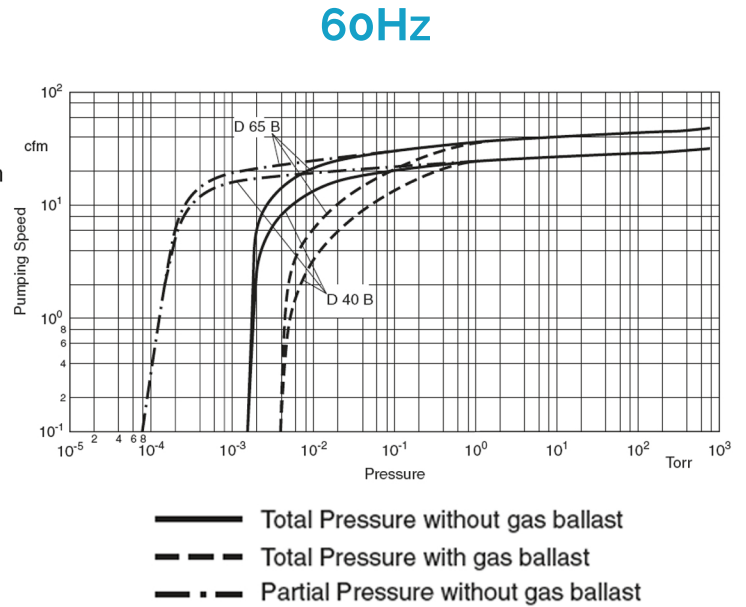
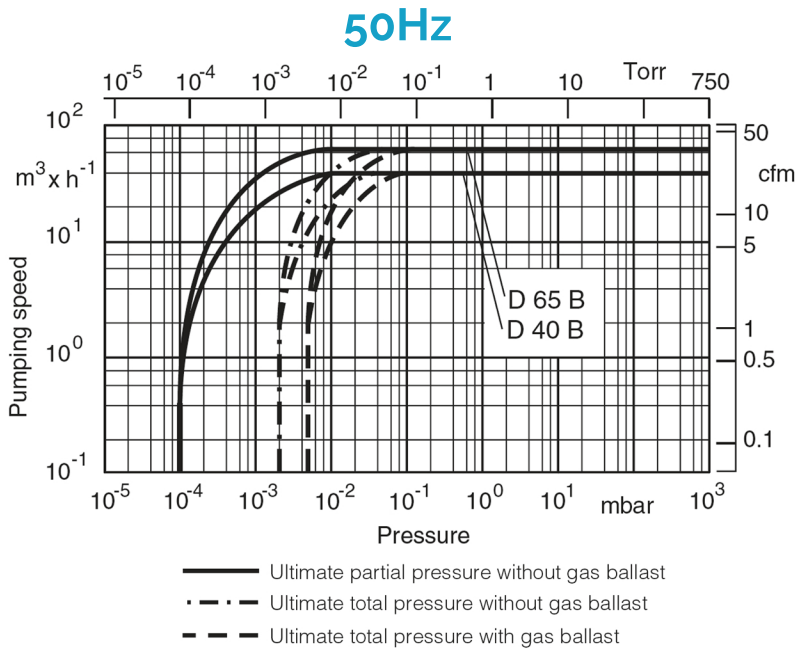
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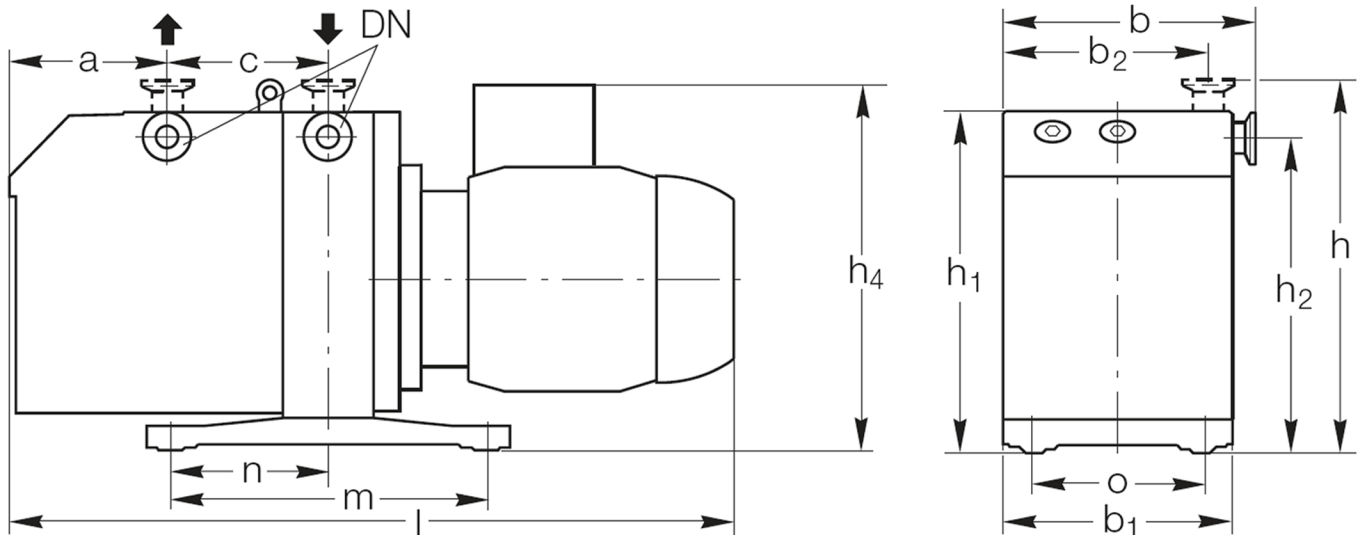
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Leybold D-40B, D-65B Pumping Curves



Dimensions



Type	DN	a	b	b ₁	b ₂	c	h	h ₁	h ₂	h ₄ ¹⁾	l ¹⁾	m	n	o	
D 40 B (Part No. 112 86)	40 KF	mm	136	255	235	208	166	357	339	310	317	719	382	191	190
		in.	5.35	10.40	9.25	8.19	6.54	14.06	13.35	12.20	12.48	28.31	15.04	7.52	7.48
D 65 B (Part No. 112 96)	40 KF	mm	214	255	235	208	166	357	339	310	317	794	382	191	190
		in.	8.46	10.40	9.25	8.19	6.54	14.06	13.35	12.20	12.48	31.26	15.04	7.52	7.48



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Leybold D-40B, D-65B Features & Benefits

- ideal as backing pump for medium/high vacuum applications
- built-in oil pump, pressure-lubricated sliding bearings
- anti-suckback valve controlled via oil pressure
- continuous operation, even at 1000 mbar
- high water vapor tolerance, highly leaktight
- service-friendly

Applications

- vacuum coating • research & development • chemistry pharmaceuticals
- lamps/tubes manufacturing • analytical/environment engineering
- cooling & air conditioning • electrical/mechanical engineering
- medicine technology • vacuum drying cabinets • chemistry & research labs • freeze-drying systems • backing pump for high vacuum pump systems • leak detectors

