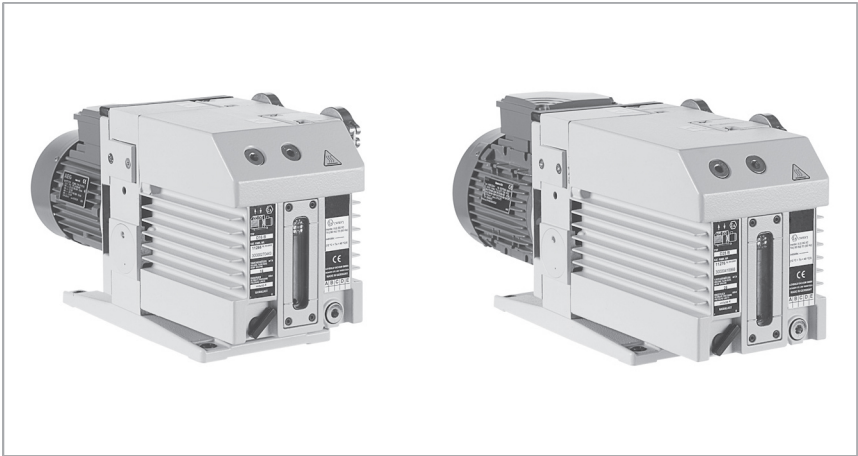
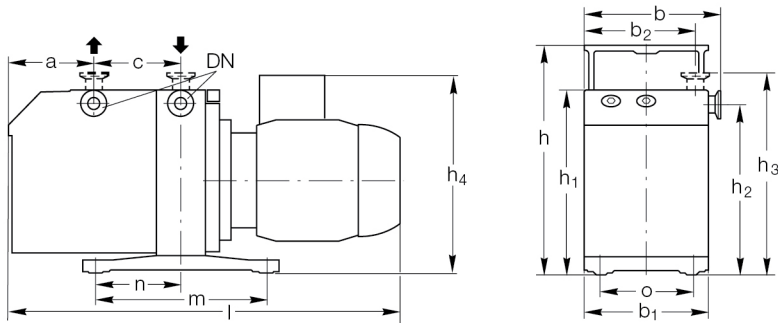


TRIVAC D 40 B and D 65 B



TRIVAC D 40 B (left) and TRIVAC D 65 B (right)



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	337	310	317	720	382	191	190
		in.	5.35	10.40	9.25	8.19	6.54	14.06	13.27	12.20	12.48	28.35	15.04	7.52	7.48
D 65 B (Part No. 112 96)	40 KF	mm	214	255	235	208	166	357	337	310	317	720	382	191	190
		in.	8.46	10.40	9.25	8.19	6.54	14.06	13.27	12.20	12.48	28.35	15.04	7.52	7.48

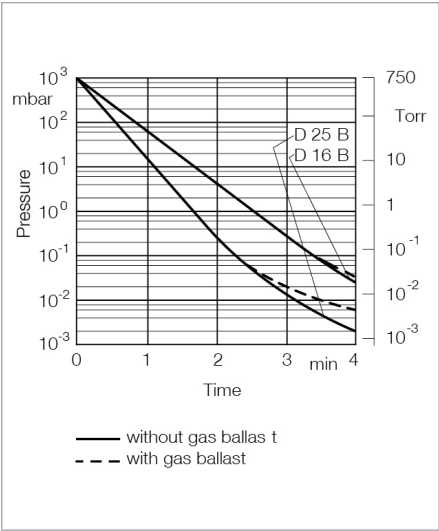
¹⁾ For dimensions h₄ and l for further part numbers, see paragraph “Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE”

Dimensional drawing for the TRIVAC D 40 and D 65 B

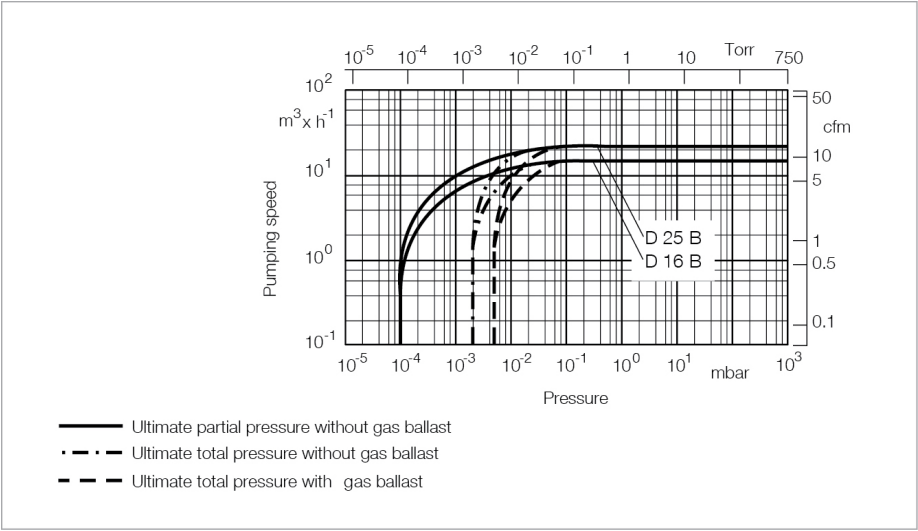
Technical Data

		TRIVAC D 40 B two-stage		TRIVAC D 65 B two-stage	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m³/h (cfm)	46 (27)	55 (32.5)	75 (44)	90 (53)
Pumping speed ¹⁾	m³/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)	1184 (2.610)	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 tem- perature	°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 ²⁾	W (HP)	2200 (3.0)	2200 (3.0)	2200 (3.0)	2200 (3.0)
Nominal speed	rpm	1460	1760	1460	1760
Type of protection	IP	³⁾	³⁾	³⁾	³⁾
Weight ²⁾	kg (lbs)	75.3 (166)	75.3 (166)	84.5 (186.3)	84.5 (186.3)
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”.



Pump-down characteristics of a 100 l vessel at 50 Hz



Pumping speed characteristics at 50 Hz (60 Hz curves at the end of the chapter)

Ordering Information

TRIVAC D 40 B
two-stage

TRIVAC D 65 B
two-stage

	Part No.	Part No.
TRIVAC B with 3-phase motor 200 – 240 V (200 V IE3) / 380 – 400 V (380 – 400 V IE3), 50 Hz / 200 – 240 V (208 – 240 V IE3) / 400 – 480 V (416 – 480 V IE3), 60 Hz ¹⁾	112 86	112 96
219 – 242 / 380 – 420 V, 50 Hz, ATEX Category 3 inside and 3 outside II 3/3G EX h IIC T4 (50 Hz) Gc / EX h IIC T3 (50 Hz) Gc (12°C ≤ Ta ≤ 40°C)	140 180	140 190
Accessories		
Roots pump adaptor	168 30	168 30
AS 30-60 dust separator	186 16	186 16
Dust filter Filter pot FH 40-65 Dust filter insert DF 40-65	140 140 T 140 141 S	140 140 T 140 141 S
Adsorption trap Filter pot FH 40-65 Adsorption filter insert RF 40-65	140 140 T 140 141 S	140 140 T 140 141 S
Accessories for dust filter and adsorption trap Active charcoal Zeolite Activated aluminium oxide, 1.3 kg (2 l approx.)	178 10 854 20 854 10	178 10 854 20 854 10
AF 40-65 exhaust filter	189 16	189 16
AR 40-65 exhaust filter with lubricant return	189 22	189 22
AK 40-65 condensate trap	188 16	188 16
OF 40-65 mechanical oil filter	101 92	101 92
CF 40-65 chemical oil filter	101 97	101 97
Connector for gas ballast inlet M 16 x 1.5 – DN 16 KF	168 40V01	168 40V01
Oil drain tap M 16 x 1.5	190 90	190 90
Spare Parts		
Inner body	E 200 10 933	E 200 10 944
Major maintenance kit (without oil)	EK 110 002 613	EK 110 002 612
Minor maintenance kit (without oil)	EK 110 002 624	EK 110 002 624
Shaft sealing ring replacement kit	EK 110 002 629	EK 110 002 629
Small parts kit	EK 110 002 636	EK 110 002 636
Seal kit	197 22	197 22

For further accessories see section "Accessories for TRIVAC E, B and BCS"

¹⁾ Certification after 2014/34/EU (ATEX), Category 3 inside. II 3/-G Ex h IIC T4 (50 Hz) Gc, II 3/-G Ex h IIC T3 (60 Hz) Gc, (12°C≤Ta≤40°C)

Notes