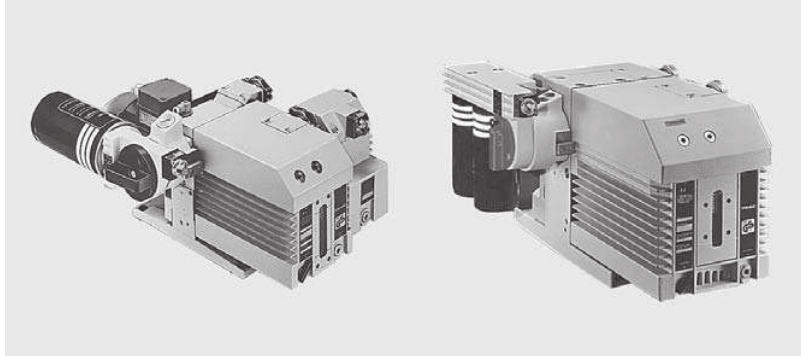
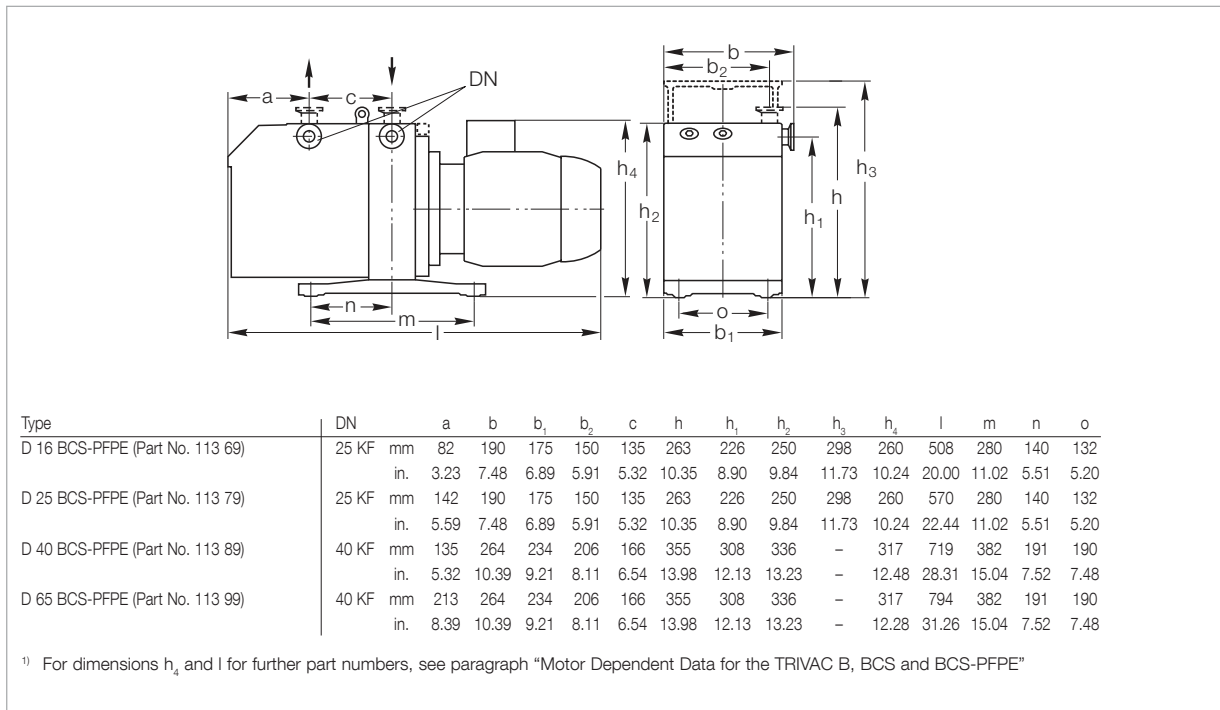


TRIVAC D 16 BCS-PFPE to D 65 BCS-PFPE



TRIVAC D 25 BCS-PFPE with CFS 16-25 and ARS 16-25 (left) and
TRIVAC D 65 BCS-PFPE with CFS 40-65 (right)



Dimensional drawing for the TRIVAC D 16 to D 65 BCS-PFPE

Technical Data
TRIVAC
**D 16 BCS-PFPE
two-stage**
**D 25 BCS-PFPE
two-stage**

		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h (cfm)	18.9 (11.1)	22.7 (13.4)	29.5 (17.4)	35.4 (20.9)
Pumping speed ¹⁾	m ³ /h (cfm)	16.5 (9.7)	19.8 (11.7)	25.7 (15.1)	30.8 (18.2)
Ultimate partial pressure without gas ballast ¹⁾	mbar (Torr)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)
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)
Ultimate total pressure with reduced gas ballast, 200 l x h ⁻¹ 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)
Lubricant filling min. / max. upon delivery	l (qt)	0.45 / 1.0 (0.5 / 1.1)	0.45 / 1.0 (0.5 / 1.1)	0.6 / 1.4 (0.6 / 1.5)	0.6 / 1.4 (0.6 / 1.5)
Noise level ²⁾ to DIN 45 635, without / with gas ballast	dB(A)	54 / 56	54 / 56	54 / 56	54 / 56
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 ²⁾	W (HP)	750 (1)	750 (1)	750 (1)	750 (1)
Nominal speed ²⁾	rpm	1500	1800	1500	1800
Type of protection	IP	3)	3)	3)	3)
Weight ²⁾	kg (lbs)	30.8 (67.8) ⁴⁾	30.8 (67.8) ⁴⁾	35.3 (77.7) ⁴⁾	35.3 (77.7) ⁴⁾
Connections, Intake and Exhaust	DN	25 KF	25 KF	25 KF	25 KF

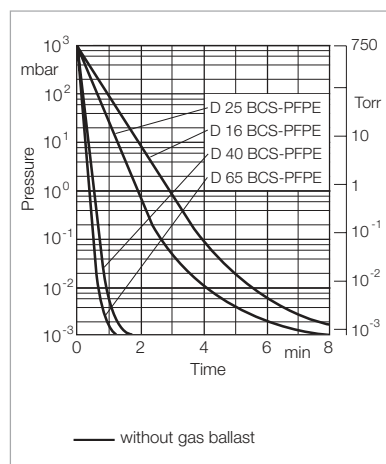
¹⁾ To DIN 28 400 and following numbers

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

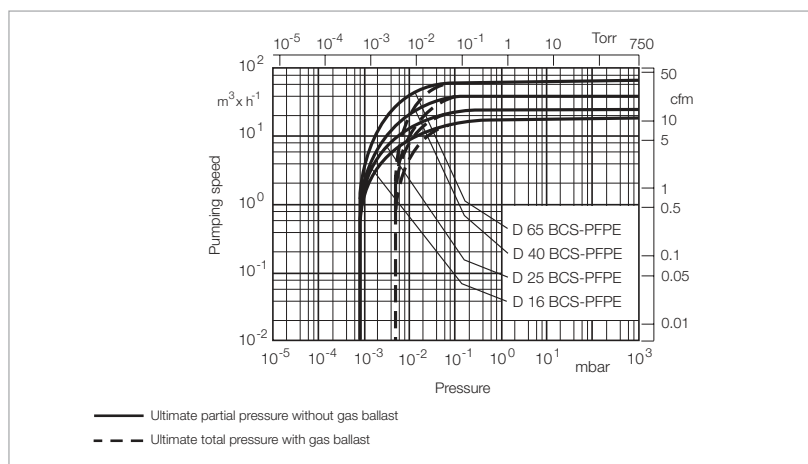
Any data that deviate from the above for pumps with other motors, and other motor-dependent data are given in chapter "Products", paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"

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

⁴⁾ Upon delivery



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)

Technical Data

TRIVAC

D 40 BCS-PFPE two-stage

D 65 BCS-PFPE 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)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)
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)
Lubricant 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)
upon delivery	l (qt)	0.6 (0.6)	0.6 (0.6)	0.75 (0.8)	0.75 (0.8)
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 ²⁾	W (HP)	2200 (3)	2200 (3)	2200 (3)	2200 (3)
Nominal speed ²⁾	rpm	1500	1800	1500	1800
Type of protection	IP	³⁾	³⁾	³⁾	³⁾
Weight ²⁾	kg (lbs)	71.3 (157) ⁴⁾	71.3 (157) ⁴⁾	80.2 (176) ⁴⁾	80.2 (176) ⁴⁾
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"

⁴⁾ Upon delivery

Ordering Information

TRIVAC

	D 16 BCS-PFPE two-stage	D 25 BCS-PFPE two-stage	D 40 BCS-PFPE two-stage	D 65 BCS-PFPE two-stage
	Part No.	Part No.	Part No.	Part No.
TRIVAC BCS-PFPE with 3-phase motor 200-240 V (200 V IE2) / 380-400 V (380-400 V IE 2), 50 Hz / 200-240 (208-240 V EPact) / 380-480 V (416-480 V EPact), 60 Hz	113 69	113 79	113 89	113 99
Accessories				
Roots pump adaptor	-	-	168 30	168 30
Exhaust filter with lubricant return				
ARS 16-25	189 56	189 56	-	-
ARS 40-65	-	-	189 57	189 57
Condensate trap				
AK 16-25	188 11	188 11	-	-
AK 40-65	-	-	188 16	188 16
Chemical filter with safety isolation valve				
CFS 16-25	101 76	101 76	-	-
CFS 40-65	-	-	101 77	101 77
Inert gas system				
IGS 16-25	161 76	161 76	-	-
IGS 40-65	-	-	161 68V	161 68V
Limit switch system				
LSS 16-25	161 06	161 06	-	-
LSS 40-65	-	-	161 07	161 07
Spare Parts				
Major maintenance kit, LVO 400 (without oil)	EK110002644	EK110002645	EK110002637	EK110002638
Shaft sealing replacement kit	EK110002650	EK110002650	EK110002643	EK110002643
Small parts kit	-	-	EK110002651	EK110002651
Seal kit	197 41	197 41	197 42	197 42
For further accessories see section "Accessories for TRIVAC E, B and BCS"				

Oil Sealed
Vacuum Pumps

Only available for purchase in North and South America

Ordering Information

TRIVAC

	D 16 BCS-PFPE two-stage	D 25 BCS-PFPE two-stage
	Part No.	Part No.
TRIVAC BCS-PFPE with 1-phase motor 220-230 V, 50/60 Hz, NEMA plug	-	913 79-2