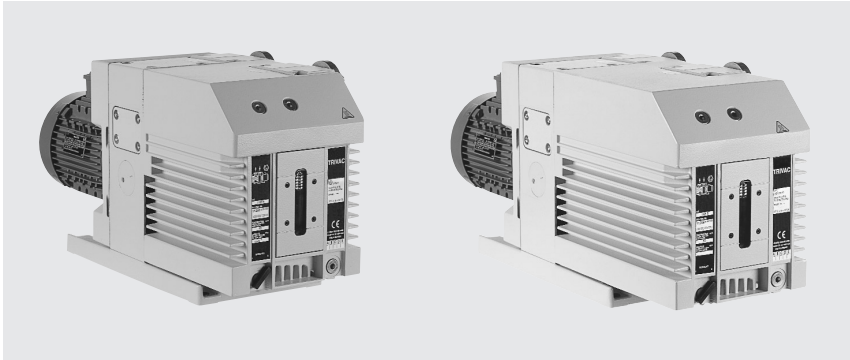
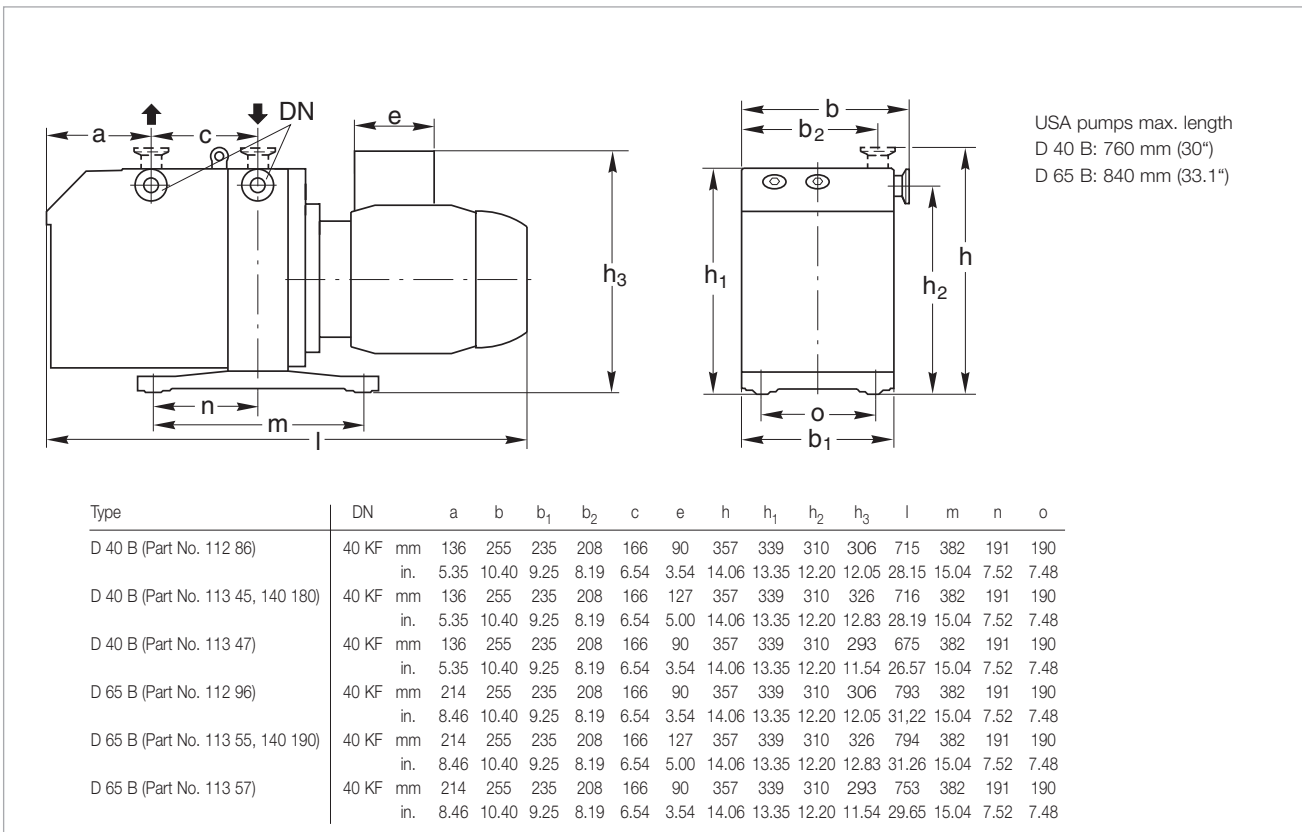


# TRIVAC D 40 B and D 65 B



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



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

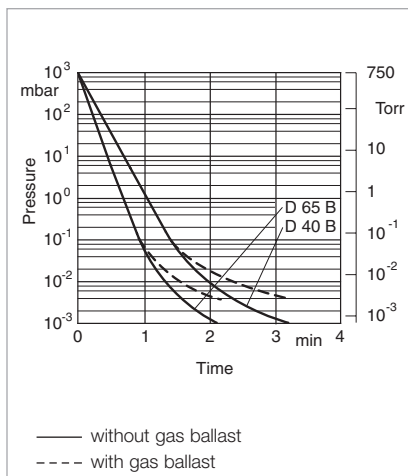
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed <sup>1)</sup>	m <sup>3</sup> x h <sup>-1</sup> (cfm)	46 (27)	55 (32.5)	75 (44)	90 (53)
Pumping speed <sup>1)</sup>	m <sup>3</sup> x h <sup>-1</sup> (cfm)	40 (24)	48 (28)	65 (38)	78 (46)
Ultimate partial pressure without gas ballast <sup>1)</sup>	mbar (Torr)	10 <sup>-4</sup> (0.75 x 10 <sup>-4</sup> )	10 <sup>-4</sup> (0.75 x 10 <sup>-4</sup> )	10 <sup>-4</sup> (0.75 x 10 <sup>-4</sup> )	10 <sup>-4</sup> (0.75 x 10 <sup>-4</sup> )
Ultimate total pressure without gas ballast <sup>1)</sup>	mbar (Torr)	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )
Ultimate total pressure with gas ballast <sup>1)</sup>	mbar (Torr)	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )
Water vapor tolerance <sup>1)</sup>	mbar (Torr)	40 (30)	40 (30)	40 (30)	40 (30)
Water vapor capacity	g/h	1184	1184	1925	1925
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 <sup>2)</sup> to DIN 45 635, without / with gas ballast	dB(A)	57 / 59	57 / 59	57 / 59	57 / 59
Admissible ambient temperature	°C (°F)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	12 - 40 (54 - 104)	12 - 40 (54 - 104)
Motor rating <sup>2)</sup>	W (HP)	2200 (3.0)	2200 (3.0)	2200 (3.0)	2200 (3.0)
Nominal speed	rpm	1420	1710	1420	1710
Type of protection <sup>3)</sup>	IP	54	54	54	54
Weight <sup>2)</sup>	kg (lbs)	68 (150)	68 (150)	80 (177)	80 (177)
Connections, Intake and Exhaust	DN	40 KF	40 KF	40 KF	40 KF

<sup>1)</sup> To DIN 28 400 and following numbers

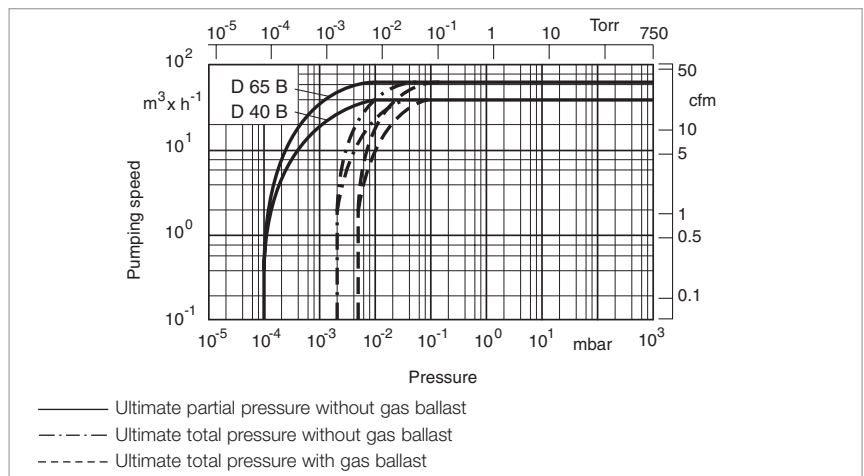
<sup>2)</sup> Weight, motor rating and noise levels for the pumps with global version 3-phase motor, 50 Hz, only.

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

<sup>3)</sup> Global versions only. North and South American versions are TEFC



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 section)

**Ordering Information****TRIVAC D 40 B****TRIVAC D 65 B****two-stage****two-stage**

TRIVAC B without motor	<b>Part No. 113 46</b>	<b>Part No. 113 56</b>
with 3-phase motor 230/400 V, 50 Hz / 250/440 V, 60 Hz <sup>1)</sup>	<b>Part No. 112 86</b>	<b>Part No. 112 96</b>
200/346 V, 50 Hz / 208/360 V, 60 Hz	<b>Part No. 113 47</b>	<b>Part No. 113 57</b>
230/400 V, 50 Hz, ATEX Category 3 inside and 3 outside inside: II (i) 3G IIC T4 (50 Hz) outside: II (o) 3G IIC T3 (50 Hz)	<b>Part No. 140 180</b>	<b>Part No. 140 190</b>
<b>Accessories</b>		
Roots pump adaptor	<b>Part No. 168 30</b>	<b>Part No. 168 30</b>
FS 30-60 dust filter	<b>Part No. 186 15</b>	<b>Part No. 186 15</b>
AS 30-60 dust separator	<b>Part No. 186 16</b>	<b>Part No. 186 16</b>
MF 30-60 molecular filter	<b>Part No. 186 17</b>	<b>Part No. 186 17</b>
FA 30-60 fine vacuum adsorption trap	<b>Part No. 187 15</b>	<b>Part No. 187 15</b>
Adsorption trap with aluminium oxide	<b>Part No. 854 16</b>	<b>Part No. 854 16</b>
Activated aluminium oxide, 1.3 kg (2 l approx.)	<b>Part No. 854 10</b>	<b>Part No. 854 10</b>
AF 40-65 exhaust filter	<b>Part No. 189 16</b>	<b>Part No. 189 16</b>
AR 40-65 exhaust filter with lubricant return	<b>Part No. 189 22</b>	<b>Part No. 189 22</b>
AK 40-65 condensate trap	<b>Part No. 188 16</b>	<b>Part No. 188 16</b>
OF 40-65 mechanical oil filter	<b>Part No. 101 92</b>	<b>Part No. 101 92</b>
CF 40-65 chemical oil filter	<b>Part No. 101 97</b>	<b>Part No. 101 97</b>
Connector for gas ballast inlet M 16 x 1.5 – DN 16 KF	<b>Part No. 168 40</b>	<b>Part No. 168 40</b>
Oil drain tap	<b>Part No. 190 90</b>	<b>Part No. 190 90</b>
<b>Spare Parts</b>		
Inside section	<b>Part No. E 200 10 933</b>	<b>Part No. E 200 10 944</b>
Seal kit	<b>Part No. 197 22</b>	<b>Part No. 197 22</b>

<sup>1)</sup> Certification after 94/9/EG (ATEX), Category 3 inside. Inside: II (i) 3G IIC T4 (50 Hz), T3 (60 Hz)