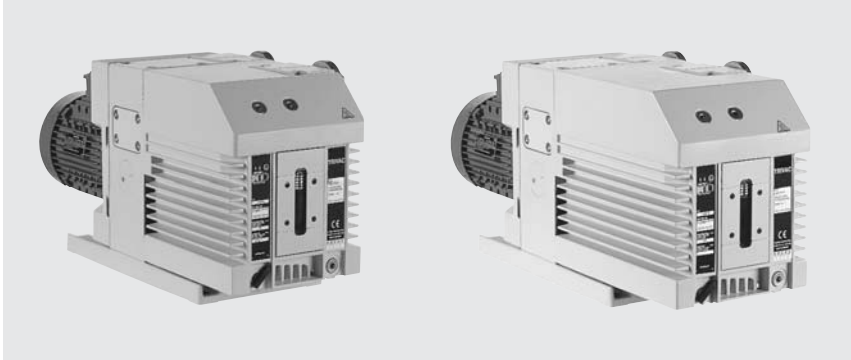
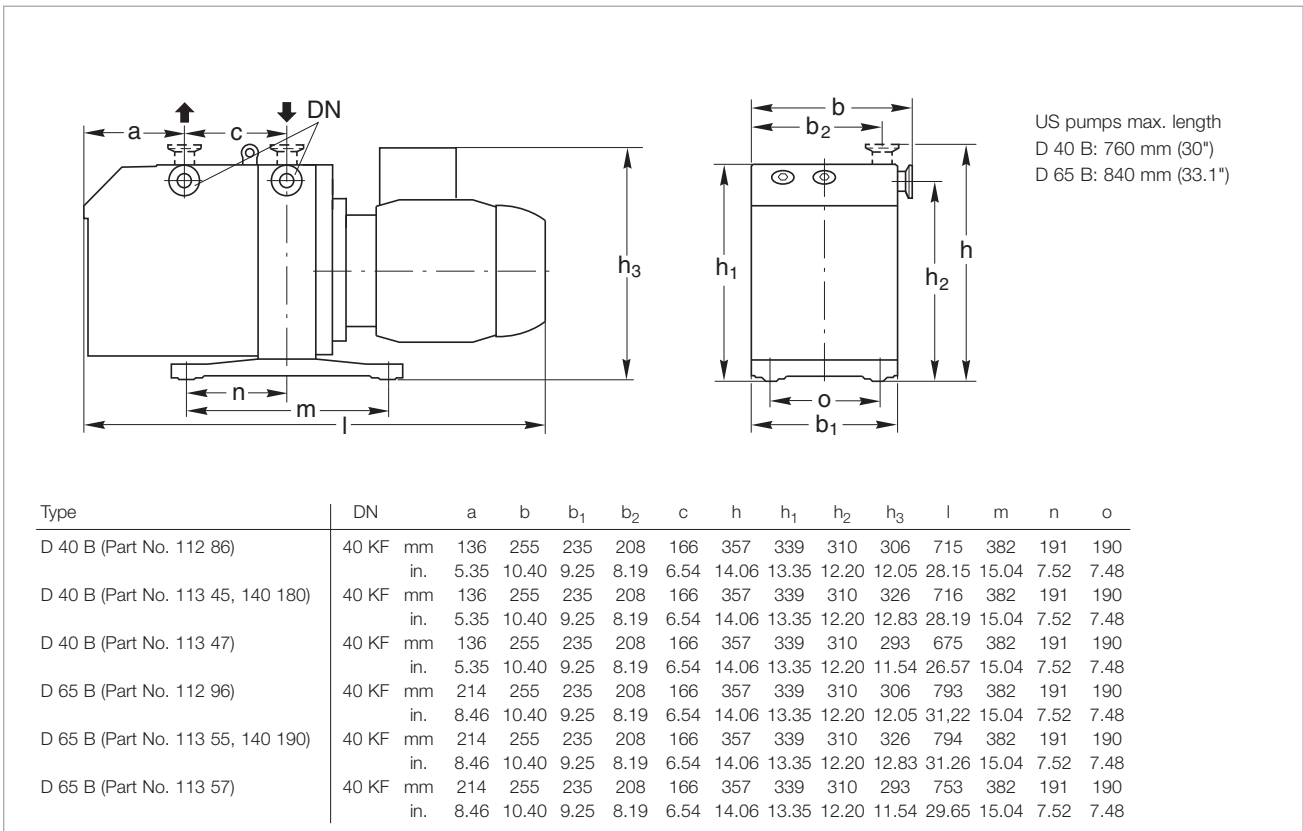


# TRIVAC D 40 B and D 65 B



TRIVAC D 40 B (left) and 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

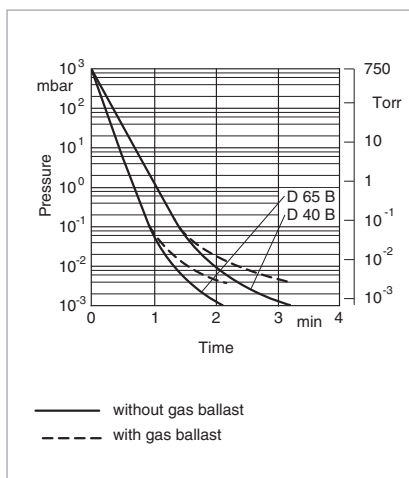
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	46 (27)	55 (32.5)	75 (44)	90 (53)
Pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	40 (24)	48 (28)	65 (38)	78 (46)
Ultimate partial pressure without gas ballast <sup>1)</sup>	mbar (Torr)	10 <sup>-4</sup> (0.75 x 10 <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 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 <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

1) To DIN 28 400 and following numbers

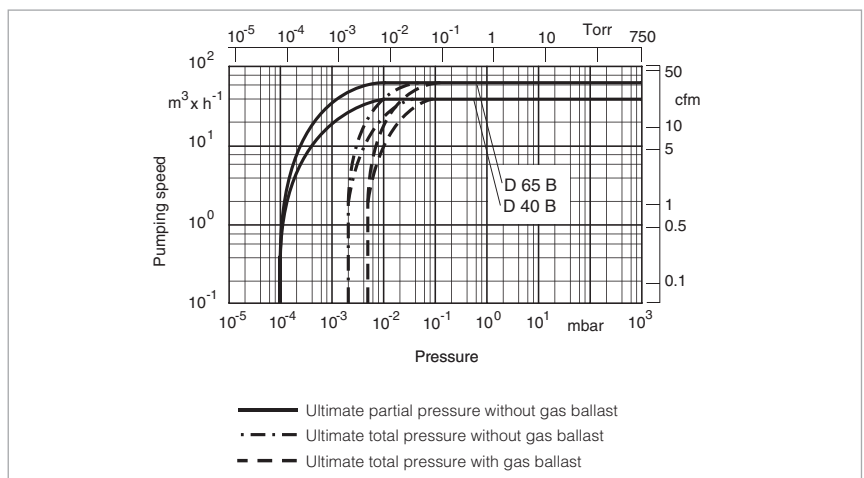
2) Weight, motor rating and noise levels for the pumps with global version 3-phase motor, 50 Hz, only.

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"

3) 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>
200/346 V, 50 Hz / 208/360 V, 60 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 M 16 x 1.5	<b>Part No. 190 90</b>	<b>Part No. 190 90</b>
<b>Spare Parts</b>		
Inner body	<b>Part No. E 200 10 933</b>	<b>Part No. E 200 10 944</b>
Major maintenance kit (without oil)	<b>Part No. EK 110 002 613</b>	<b>Part No. EK 110 002 612</b>
Minor maintenance kit (without oil)	<b>Part No. EK 110 002 624</b>	<b>Part No. EK 110 002 624</b>
Shaft sealing ring replacement kit	<b>Part No. EK 110 002 629</b>	<b>Part No. EK 110 002 629</b>
Small parts kit	<b>Part No. EK 110 002 636</b>	<b>Part No. EK 110 002 636</b>

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

# Only available for purchase in North and South America

## Ordering Information

### TRIVAC D 40 B two-stage

### TRIVAC D 65 B two-stage

TRIVAC B with 3-phase motor 208-230/460 V, 60 Hz / 200-220/380 V, 50 Hz	<b>Part No. 912 86-2</b>	<b>Part No. 912 96-2</b>
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