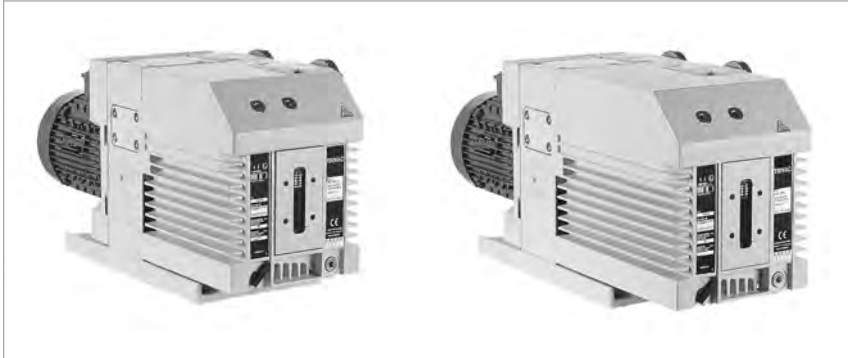
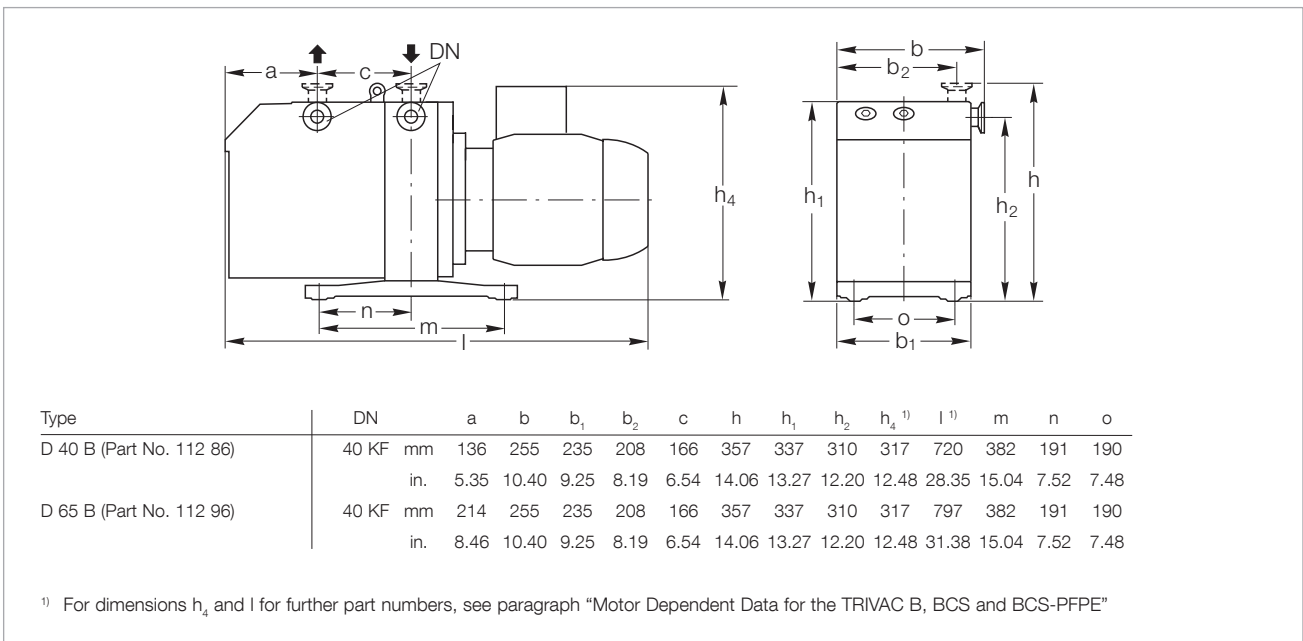


# TRIVAC D 40 B and D 65 B



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

### TRIVAC D 65 B

#### two-stage

#### two-stage

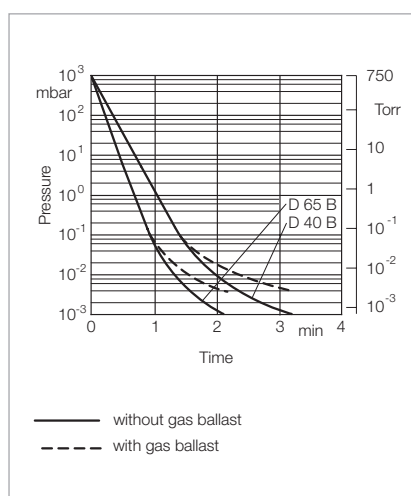
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	46 (27)	55 (32.5)	75 (44)	90 (53)
Pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	40 (24)	48 (28)	65 (38)	78 (46)
Ultimate partial pressure without gas ballast <sup>1)</sup>	mbar (Torr)	10 <sup>-4</sup> (0.75 x 10 <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 (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 <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	1460	1760	1460	1760
Type of protection	IP	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>
Weight <sup>2)</sup>	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

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

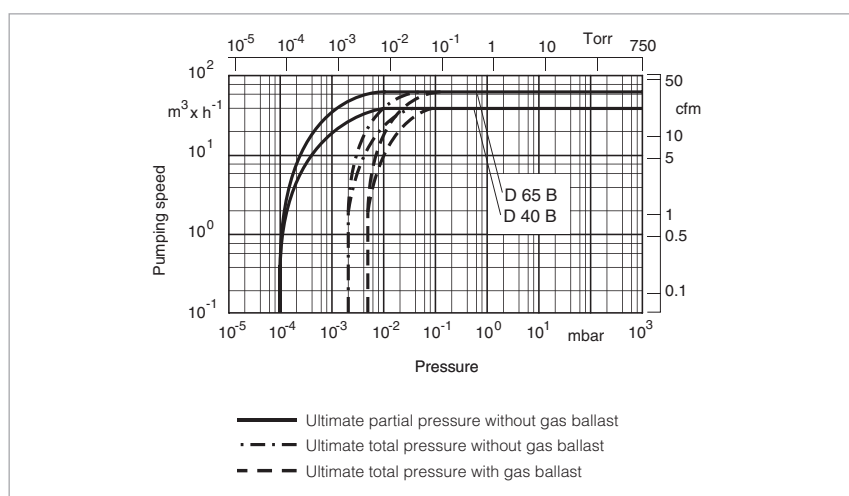
<sup>2)</sup> Motor rating and noise levels for the pumps with AC motor 50 Hz.

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".

<sup>3)</sup> 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 <sup>1)</sup>	<b>112 86</b>	<b>112 96</b>
180 – 220 V (200 V IE3 Japan) / 311 – 380 V (346 V IE3 Japan), 50 Hz / 200 – 240 V (220 V IE3 Japan) / 342 – 418 V (380 V IE3 Japan), 60 Hz	<b>112 86J</b>	<b>112 96J</b>
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)	<b>140 180</b>	<b>140 190</b>
<b>Accessories</b>		
Roots pump adaptor	<b>168 30</b>	<b>168 30</b>
AS 30-60 dust separator	<b>186 16</b>	<b>186 16</b>
Dust filter		
Filter pot FH 40-65	<b>140 140 T</b>	<b>140 140 T</b>
Dust filter insert DF 40-65	<b>140 141 S</b>	<b>140 141 S</b>
Adsorption trap		
Filter pot FH 40-65	<b>140 140 T</b>	<b>140 140 T</b>
Adsorption filter insert RF 40-65	<b>140 142 A</b>	<b>140 142 A</b>
Accessories for dust filter and adsorption trap		
Active charcoal	<b>178 10</b>	<b>178 10</b>
Zeolite	<b>854 20</b>	<b>854 20</b>
Activated aluminium oxide, 1.3 kg (2 l approx.)	<b>854 10</b>	<b>854 10</b>
AF 40-65 exhaust filter	<b>189 16</b>	<b>189 16</b>
AR 40-65 exhaust filter with lubricant return	<b>189 22</b>	<b>189 22</b>
AK 40-65 condensate trap	<b>188 16</b>	<b>188 16</b>
OF 40-65 mechanical oil filter	<b>101 92</b>	<b>101 92</b>
CF 40-65 chemical oil filter	<b>101 97</b>	<b>101 97</b>
Connector for gas ballast inlet M 16 x 1.5 – DN 16 KF	<b>168 40V01</b>	<b>168 40V01</b>
Oil drain tap M 16 x 1.5	<b>190 90</b>	<b>190 90</b>
<b>Spare Parts</b>		
Inner body	<b>E 200 10 933</b>	<b>E 200 10 944</b>
Major maintenance kit (without oil)	<b>EK 110 002 613</b>	<b>EK 110 002 612</b>
Minor maintenance kit (without oil)	<b>EK 110 002 624</b>	<b>EK 110 002 624</b>
Shaft sealing ring replacement kit	<b>EK 110 002 629</b>	<b>EK 110 002 629</b>
Small parts kit	<b>EK 110 002 636</b>	<b>EK 110 002 636</b>
Seal kit	<b>197 22</b>	<b>197 22</b>

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

<sup>1)</sup> 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)