TRIVAC D 40 B and D 65 B

Type | DN | a | b | b1 | b2 | c | e | h | h1 | h2 | h3 | l | m | n | o
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
D 40 B (Part No. 112 96) | 40 KF mm | 135 | 264 | 234 | 206 | 166 | 111 | 355 | 336 | 308 | 302 | 676 | 382 | 191 | 190
D 40 B (Part No. 113 45) | 40 KF mm | 135 | 264 | 234 | 206 | 166 | u. r. | u. r. | u. r. | u. r. | u. r. | 382 | 191 | 190
D 40 B (Part No. 113 47) | 40 KF mm | 135 | 264 | 234 | 206 | 166 | 111 | 355 | 336 | 308 | 302 | 676 | 382 | 191 | 190
D 65 B (Part No. 112 96, 113 57) | 40 KF mm | 213 | 264 | 234 | 206 | 166 | 111 | 355 | 336 | 308 | 302 | 750 | 382 | 191 | 190
D 65 B (Part No. 113 55) | 40 KF mm | 213 | 264 | 234 | 206 | 166 | u. r. | u. r. | u. r. | u. r. | u. r. | 382 | 191 | 190

Dimensional drawing for the TRIVAC D 40 and D 65 B

Pressure vs. Time

- Without gas ballast
- With gas ballast

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)
## Technical Data

<table>
<thead>
<tr>
<th></th>
<th>TRIVAC D 40 B</th>
<th>TRIVAC D 65 B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50 Hz</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Nominal pumping speed 1) m³ x h⁻¹ (cfm)</td>
<td>46 (27)</td>
<td>55 (32.5)</td>
</tr>
<tr>
<td>Pumping speed 1) m³ x h⁻¹ (cfm)</td>
<td>40 (24)</td>
<td>48 (28)</td>
</tr>
<tr>
<td>Ultimate partial pressure without gas ballast mbar (Torr)</td>
<td>10⁻⁶ (0.75 x 10⁻⁴)</td>
<td></td>
</tr>
<tr>
<td>Ultimate total pressure without gas ballast mbar (Torr)</td>
<td>&lt; 2 x 10⁻³ (&lt; 1.5 x 10⁻³)</td>
<td></td>
</tr>
<tr>
<td>Ultimate total pressure with gas ballast mbar (Torr)</td>
<td>&lt; 5 x 10⁻³ (&lt; 3.8 x 10⁻³)</td>
<td></td>
</tr>
<tr>
<td>Water vapor tolerance 1) mbar (Torr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water vapor capacity gm/h</td>
<td>1184</td>
<td>1925</td>
</tr>
<tr>
<td>Oil filling, min./max. l (qt)</td>
<td>1.7 / 2.6 (1.8 / 2.7)</td>
<td>2.0 / 3.3 (2.1 / 3.5)</td>
</tr>
<tr>
<td>Noise level 2) to DIN 45 635, without/with gas ballast dB(A)</td>
<td>57/59</td>
<td></td>
</tr>
<tr>
<td>Admissible ambient temperature °C (°F)</td>
<td>12 - 40 (54 - 104)</td>
<td></td>
</tr>
<tr>
<td>Motor rating 2) W (HP)</td>
<td>2200 (3)</td>
<td></td>
</tr>
<tr>
<td>Nominal speed rpm</td>
<td>1500</td>
<td>1800</td>
</tr>
<tr>
<td>Type of protection 3) IP</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>Weight 2) kg (lbs)</td>
<td>68 (150)</td>
<td>80 (177)</td>
</tr>
<tr>
<td>Connections, Intake and Exhaust DN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ordering Information

#### TRIVAC D 40 B
- Two-stage
- TRIVAC B, with 3-phase motor
- Part No. 912 86-2

#### TRIVAC D 65 B
- Two-stage
- TRIVAC B, with 3-phase motor
- Part No. 912 96-2

### Global Version

#### TRIVAC D 40 B
- Two-stage
- Part No. 112 86
- Part No. 113 45
- Part No. 113 47

#### TRIVAC D 65 B
- Two-stage
- Part No. 112 96
- Part No. 113 55
- Part No. 113 57

### Accessories

- Roots pump adaptor Part No. 168 30
- FS 30-60 dust filter Part No. 186 15
- AS 30-60 dust separator Part No. 186 16
- MF 30-60 molecular filter Part No. 186 17
- FA 30-60 fine vacuum adsorption trap Part No. 187 15
- Adsorption trap with aluminium oxide Part No. 854 16
- Activated aluminium oxide, 1.3 kg (2 l approx.) Part No. 854 10
- AF 40-65 exhaust filter Part No. 189 16
- AR 40-65 exhaust filter with lubricant return Part No. 189 22
- AK 40-65 condensate trap Part No. 188 16
- OF 40-65 mechanical oil filter Part No. 101 92
- CF 40-65 chemical oil filter Part No. 101 97
- Connector for gas ballast inlet M 16 x 1.5 – DN 16 KF Part No. 188 40
- Oil drain tap Part No. 190 90

### Spare Parts

#### Inside Section
- Part No. E 200 10 933

#### Seal Kit
- Part No. E 200 10 944

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1) To DIN 28 400 and following numbers
2) Weight, motor rating and noise levels for the pumps with 3-phase motor, 50 Hz, only.
3) 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”

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