



## DUO 3/M

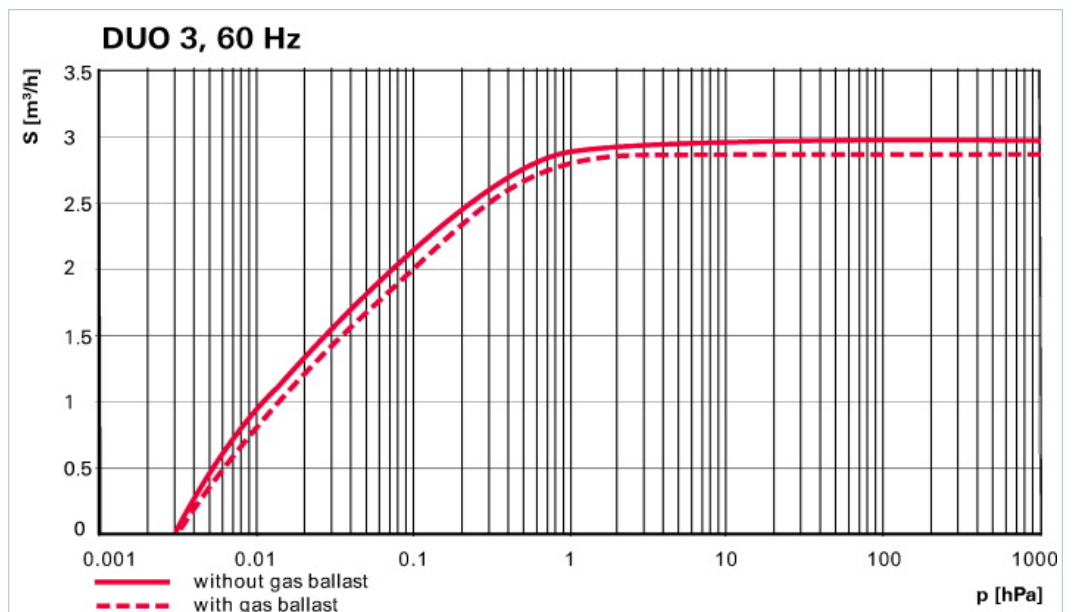
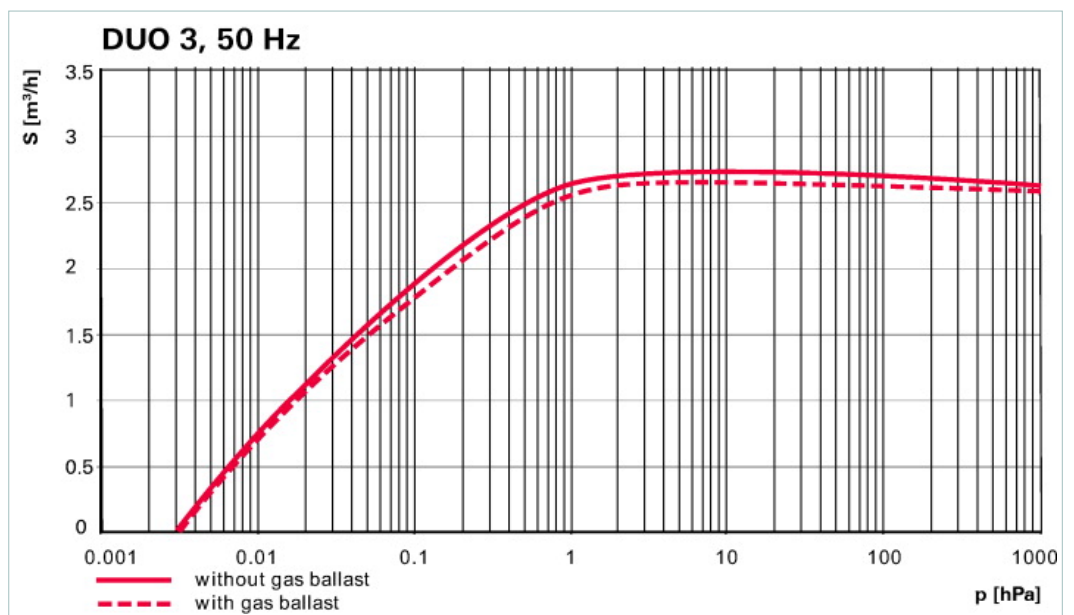
Dual-stage rotary vane pumps with a pumping speed up to 2.9 m<sup>3</sup>/h:



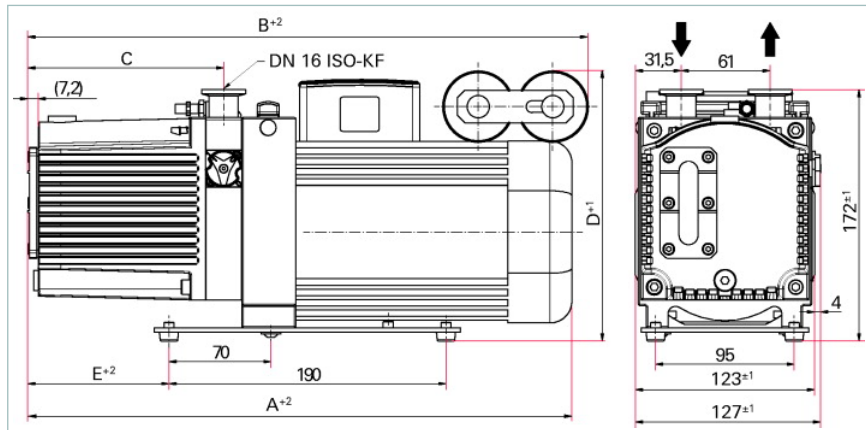
## DUO 3, 1-phase motor, 220-240 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 2.5 m<sup>3</sup>/h at 50 Hz / 2.9 m<sup>3</sup>/h at 60 Hz
- With Single-phase motor
- Integrated gas ballast and safety valve
- For all low and medium vacuum applications
- Optional with magnetic coupling
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

### Characteristics



**Dimensions**



A	309 mm
B	309 mm
C	123 mm
D	176 mm
E	85.5 mm

Technical Data	DUO 3, 1-phase motor, 220-240 V, 50/60 Hz
Ambient temperature	12-40 °C   53.6-104 °F   285-313 K
Cooling method, standard	Air
Emission sound pressure level without gas ballast at 50 Hz	<= 53 dB (A)
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Exhaust pressure, min.	250 hPa   187.5 Torr   250 mbar
Flange (in)	DN 16 ISO-KF
Flange (out)	DN 16 ISO-KF
Leak rate safety valve	<= 1 · 10 <sup>-5</sup> Pa m <sup>3</sup> /s   <= 7.5 · 10 <sup>-5</sup> Torr l/s   <= 1 · 10 <sup>-4</sup> mbar l/s
Mains cable	No
Mains requirement: voltage 50 Hz	220-240 V
Mains requirement: voltage 60 Hz	220-240 V
Operating fluid	P3
Operating fluid filling	0.4 l
Protection category	IP 55
Pumping speed at 50 Hz	2.5 m <sup>3</sup> /h
Pumping speed at 60 Hz	2.9 m <sup>3</sup> /h
Rated power 50 Hz	0.15 kW
Rated power 60 Hz	0.18 kW
Rotation speed at 50 Hz	3000 min <sup>-1</sup>
Rotation speed at 60 Hz	3600 min <sup>-1</sup>
Switch	yes
Ultimate pressure with gas ballast	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Ultimate pressure without gas ballast	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Weight	11.3 kg   24.91 lb

Ultimate pressure according to PNEUROP

Order number	
DUO 3/M	PKD57712

Accessories	
<b>Accessories DuoLine™</b>	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m <sup>3</sup> /h	PKZ10003
Oil return unit from ONF 16 M to DUO 1.6, 3, 6, 11	PK006080-T
Oil return unit from ONF 16 S to DUO 1.6 / DUO 3	PK005986-T
ONF 16 M, oil mist filter for pumping speeds of up to 12 m <sup>3</sup> /h	PKZ40003
ONF 16 S, oil mist filter for pumping speeds up to 12 m <sup>3</sup> /h	PKZ40001
Operations monitoring unit 1 for DUO 1.6/3/6/11 and DUO 5/10/20 M	PK196157-T
Operations monitoring unit 2 for DUO 1.6/3/6/11 and DUO 5/10/20 M	PK196142-T
Operations monitoring unit 3 for DUO 1.6/3/6/11 and DUO 5/10/20 M	PK196141-T
SAS 16, DN 16 ISO-KF, polyester filter	PKZ60506
ZFO 16, zeolite trap	PKZ70003
<b>Consumables</b>	
P3, mineral oil, 1 l	PK001106-T
P3, mineral oil, 0.5 l	PK001136-T

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