



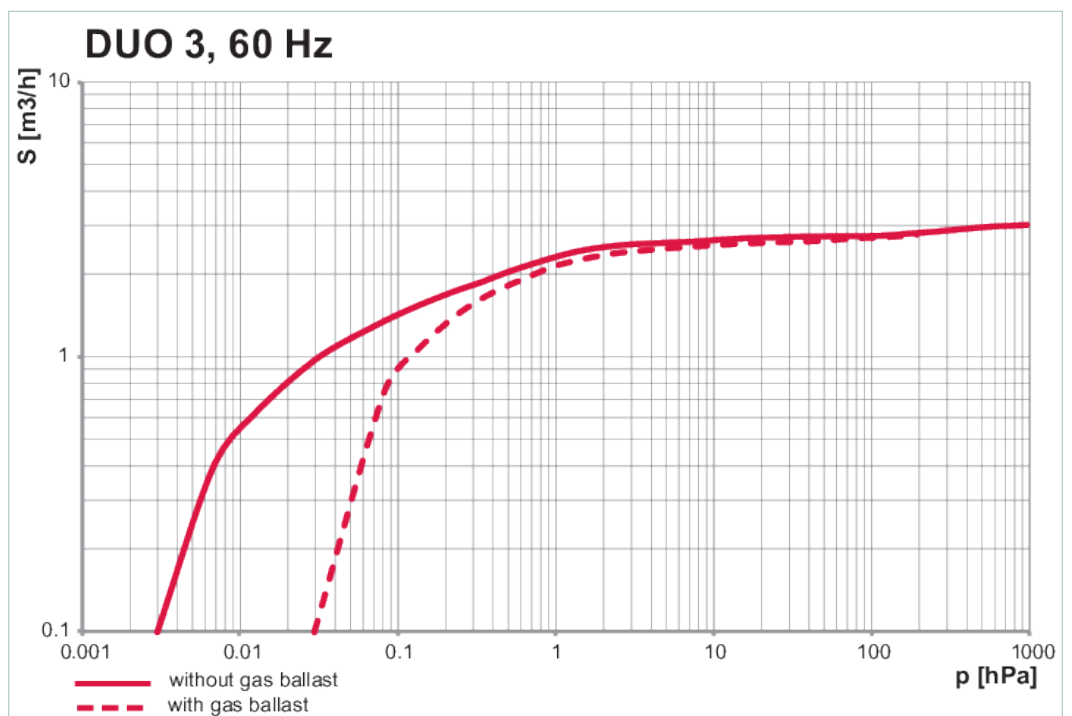
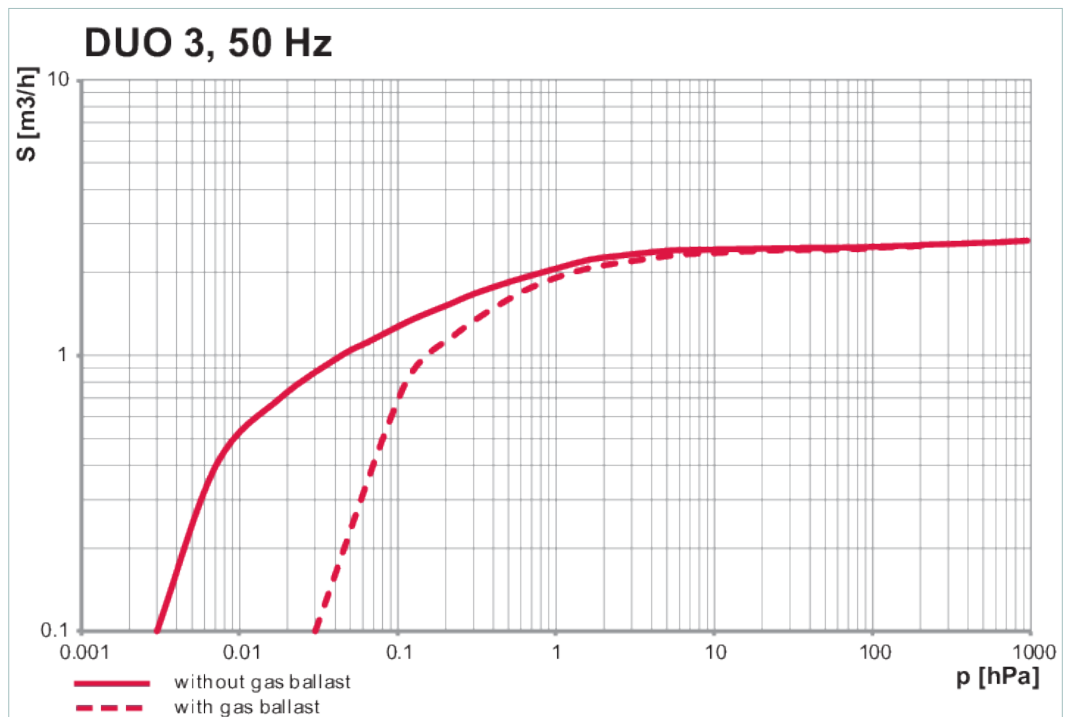
**Duo 3, 1-phase motor, 230–240 V,
50/60 Hz**



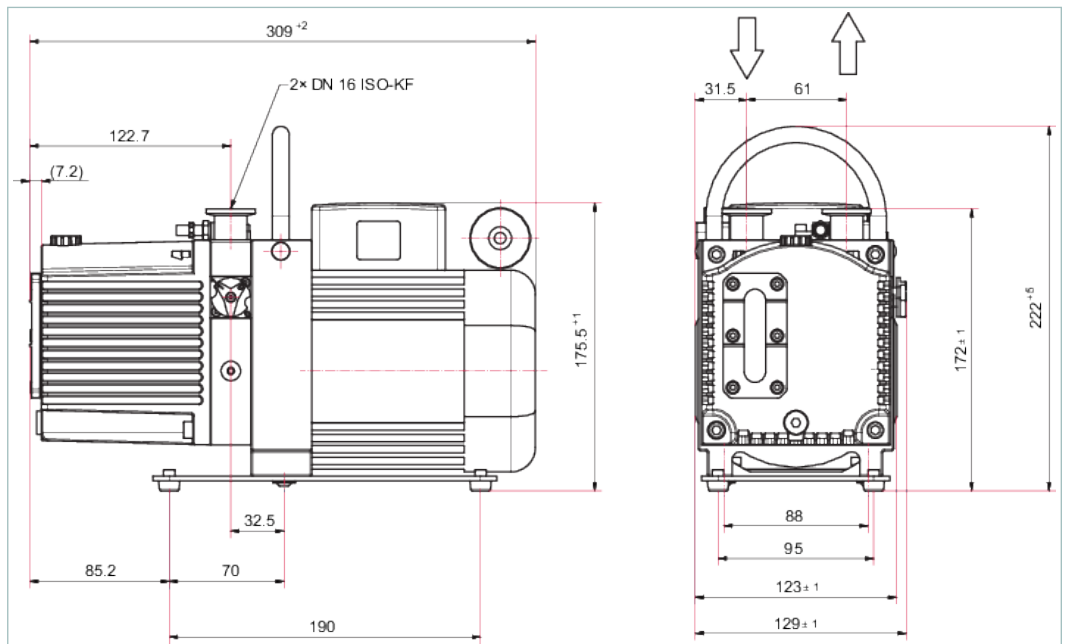
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Duo 3, 1-phase motor, 230–240 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 2.5 m³/h at 50 Hz / 2.9 m³/h at 60 Hz
- With single-phase motor with C14 connector plug inside the terminal box
- 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



Dimensions



Technical Data	Duo 3, 1-phase motor, 230–240 V, 50/60 Hz
Flange (in)	DN 16 ISO-KF
Flange (out)	DN 16 ISO-KF
Pumping speed at 50 Hz	2.5 m ³ /h 1.47 cfm 41.67 l/min
Pumping speed at 60 Hz	2.9 m ³ /h 1.71 cfm 48.33 l/min
Ultimate pressure with gas ballast	3 · 10 ⁻² hPa 2.25 · 10 ⁻² Torr 3 · 10 ⁻² mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Exhaust pressure, min.	Atmospheric pressure
Exhaust pressure, max.	1,500 hPa 1,125 Torr 1,500 mbar
Water vapor capacity 50 Hz	115 g/h
Water vapor capacity 60 Hz	175 g/h
Water vapor tolerance at 50 Hz	65 hPa 48.75 Torr 65 mbar
Water vapor tolerance at 60 Hz	80 hPa 60 Torr 80 mbar
Rotation speed at 50 Hz	3,000 rpm 3,000 min ⁻¹
Rotation speed at 60 Hz	3,600 rpm 3,600 min ⁻¹
Cooling method, standard	Air
Motor protection	Bimetal
Motor version	1-ph motor
Ambient temperature	12–40 °C 53.6–104 °F 285–313 K
Emission sound pressure level without gas ballast at 50 Hz	50 dB(A)
Emission sound pressure level without gas ballast at 60 Hz	54 dB(A)
Switch	Yes
Mains requirement: voltage (range)	±10 %
Mains requirement: voltage 50 Hz	230 – 240 V
Mains requirement: voltage 60 Hz	230 – 240 V
Recommended mains fuse capacity	4 A
Mains cable	No, C14-plug inside the terminal box
Gas ballast	Yes
Operating fluid	P3
Operating fluid filling	0.4 l
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s

Technical Data	Duo 3, 1-phase motor, 230–240 V, 50/60 Hz
Dimensions (L x W x H)	311 x 130 x 177 mm 12.24 x 5.12 x 6.97 inch
Rated power 50 Hz	0.15 kW
Rated power 60 Hz	0.18 kW
Protection category	IP40
Weight	11.3 kg 24.91 lb

Order number	
Duo 3	PK D57 712

Accessories	
Cables Mains cables / Power cords	
Mains cable 230 V with safety plug, right angle IEC 320/C13 socket, 2 m	PK 050 109
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	PK 050 110
Mains cable 115/230 V without plug, rubber connector (right angle), 3 m	PK 050 111
Flanges/Ports Blank flanges	
Blank flange gas ballast valve with O-ring and screws	PK 007 002 -T
Monitoring Operations monitoring units	
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 146 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 147 -T
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 148 -T
Other	
Gas ballast valve with dosing spindle and inert gas connection	PK 195 666 -U
Protection Condensate separators	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m³/h	PK Z10 003
Protection Dust separators/Inlet particle filters	
SAS 16, DN 16 ISO-KF, polyester filter	PK Z60 506
Protection Oil mist eliminators	
OME 16 S, oil mist separator for pumping speeds up to 12 m³/h	PK Z40 000
OME 16 M, oil mist separator for pumping speeds up to 12 m³/h	PK Z40 003
Protection Oil return units from oil mist eliminators	
Oil return unit from OME 16 S/16 C to Duo 1.6/Duo 3/Duo 6/Duo 11/Uno 6	PK 005 986 -T
Oil return unit from OME 16 M to Duo 1.6, 3, 6, 11, Uno 6	PK 006 080 -T
Protection Sorption traps	
ZFO 16, zeolite trap	PK Z70 003
Valves Gas ballast valves, magnetic	
Gas ballast valve with solenoid valve 24 V DC	PK 194 343 -U
Consumables	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 0.5 l	PK 001 136 -T

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