



**Duo 3, 1-phase motor, 105 V,  
50 Hz, 115 – 125 V, 60 Hz**

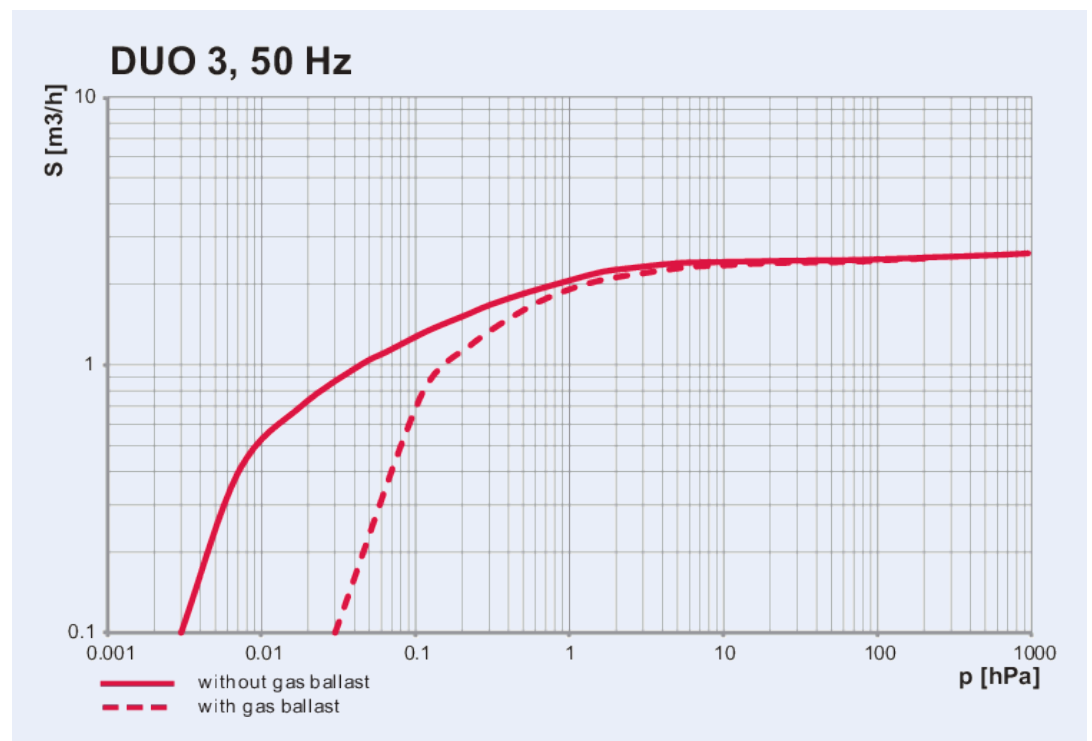




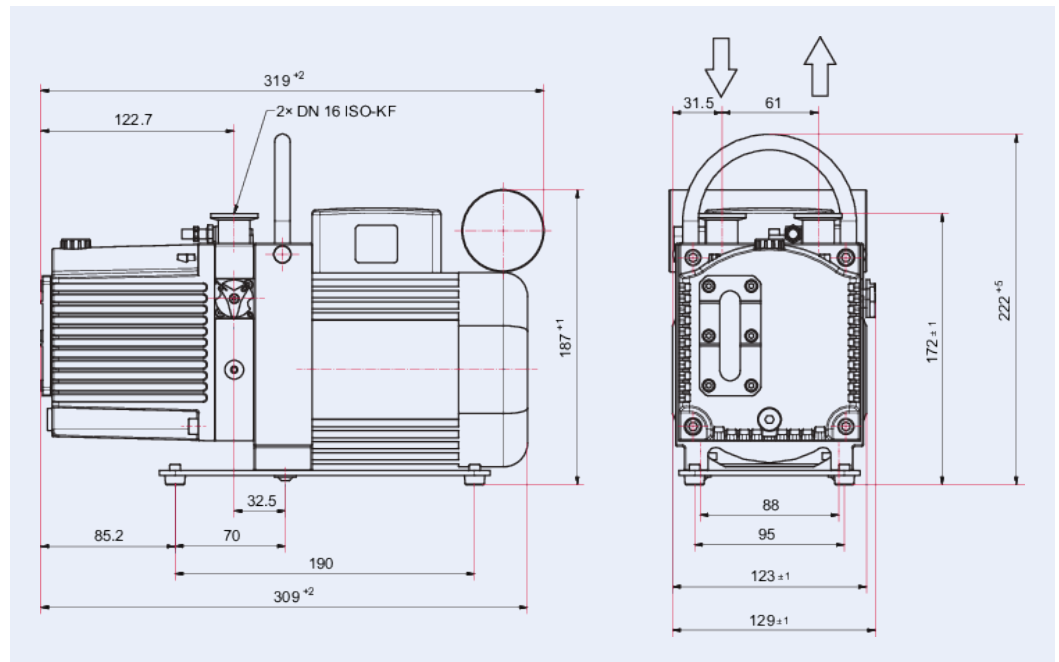
## Duo 3, 1-phase motor, 105 V, 50 Hz, 115 – 125 V, 60 Hz

- 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 1-phase motor with C14 connector plug inside the terminal box
- Integrated gas ballast and safety valve
- OME oil return device is included with the pump
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

## Characteristics



## Dimensions



Technical Data	Duo 3, 1-phase motor, 105 V, 50 Hz, 115 – 125 V, 60 Hz
Connection flange (in)	DN 16 ISO-KF
Connection flange (out)	DN 16 ISO-KF
Pumping speed at 50 Hz	2.5 m <sup>3</sup> /h   1.4715 cfm   41.6675 l/min
Pumping speed at 60 Hz	2.9 m <sup>3</sup> /h   1.70694 cfm   48.3343 l/min
Final pressure	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Final pressure with gas ballast	3 · 10 <sup>-2</sup> hPa   2.25 · 10 <sup>-2</sup> Torr   3 · 10 <sup>-2</sup> 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   48.8 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 <sup>-1</sup>
Rotation speed at 60 Hz	3,600 rpm   3,600 min <sup>-1</sup>
Cooling method	Air (Forced convection)
Motor protection	Bimetal
Motor type	1-phase motor
Ambient temperature	12 – 40 °C
Continuous gas input temperature, max.	40 °C   104 K   -233.2 °F
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
Switch included	Yes
Input voltage 50 Hz	105 V
Input voltage 60 Hz	115 – 125 V
Input voltage(s)	105 V AC, 50 Hz   115 – 125 V AC (±10 %), 60 Hz
Recommended on-site electric fuse protection	6 A
Recommended on-site electric fuse protection 1	6 A
Mains cable included	No
Mains cable	No, C14-plug inside the terminal box
Gas ballast flow	540 l/h
Gas ballast	Yes
Gas ballast pressure	≤1,500 hPa   ≤1,125 Torr   ≤1,500 mbar
Operating fluid	P3
Operating fluid amount	0.4 l

Leakage rate safety valve	$\leq 1 \cdot 10^{-5} \text{ Pa m}^3 / \text{s}$   $\leq 1.33 \cdot 10^{-3} \text{ Torr l/s}$   $\leq 1 \cdot 10^{-3} \text{ mbar l/s}$
Dimensions (L x W x H)	321 x 130 x 188 mm
Input voltage: tolerance	$\pm 10 \%$
Rated power 50 Hz	0.15 kW
Rated power 60 Hz	0.18 kW
Protection degree	IP40
Certification	CE   cTUVus certified according to UL / CSA 61010-1
Weight	11.5 kg   25.35 lb

<b>Order number</b>	Duo 3, 1-phase motor, 105 V, 50 Hz, 115 – 125 V, 60 Hz
Duo 3, 1-phase motor, 105 V, 50 Hz, 115 – 125 V, 60 Hz	PK D57 707

<b>Accessories</b>	Duo 3, 1-phase motor, 105 V, 50 Hz, 115 – 125 V, 60 Hz
Maintenance kit DUO 1.6/3, UNO 6	PK E01 040 CT
Maintenance kit, level I, for Duo 1.6 - 11, Uno 6	PK E01 050 CT
Overhaul kit for Duo 3 PK D57...	PK E02 040 CT
Vane kit for DUO 1.6 / 3 PK D56... / PK D57...	PK E08 030 -T
Maintenance kit level II -RSSR for Duo 1.6 - 11, Uno 6 (with coupling)	PK E06 100 CT

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Errors and/or changes excepted. - 7/6/2024

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