



**Duo 1.6, single-phase
motor, 100 V, 50 Hz | 95 –
105 V, 60 Hz**



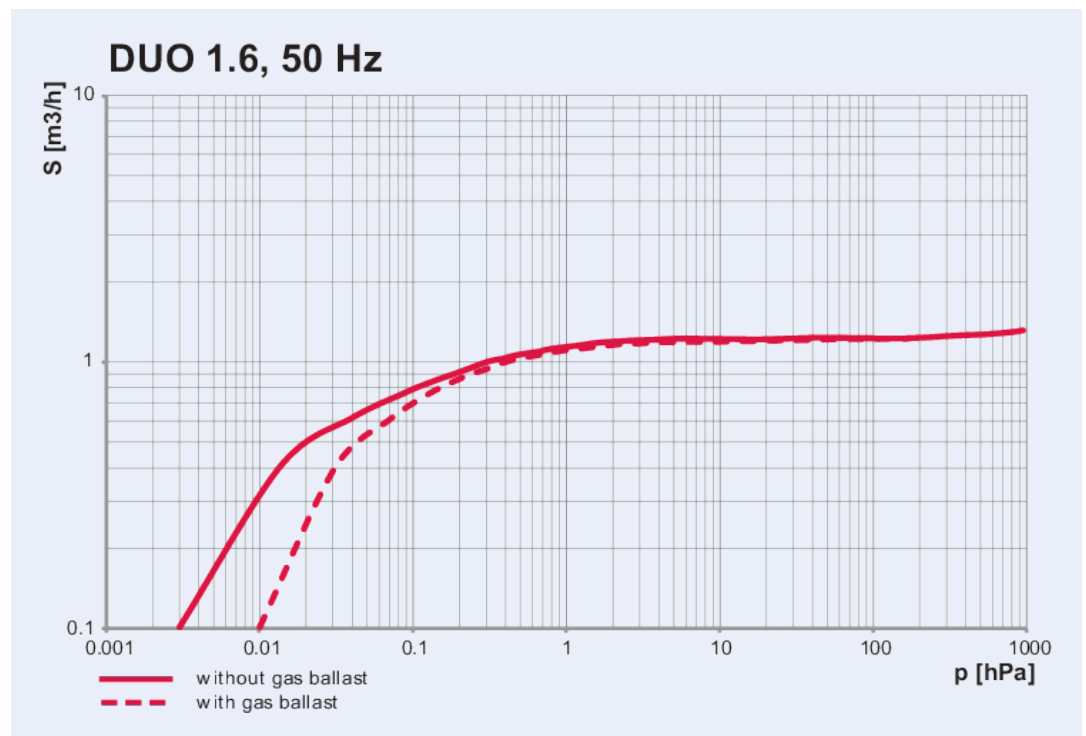
Duo 1.6



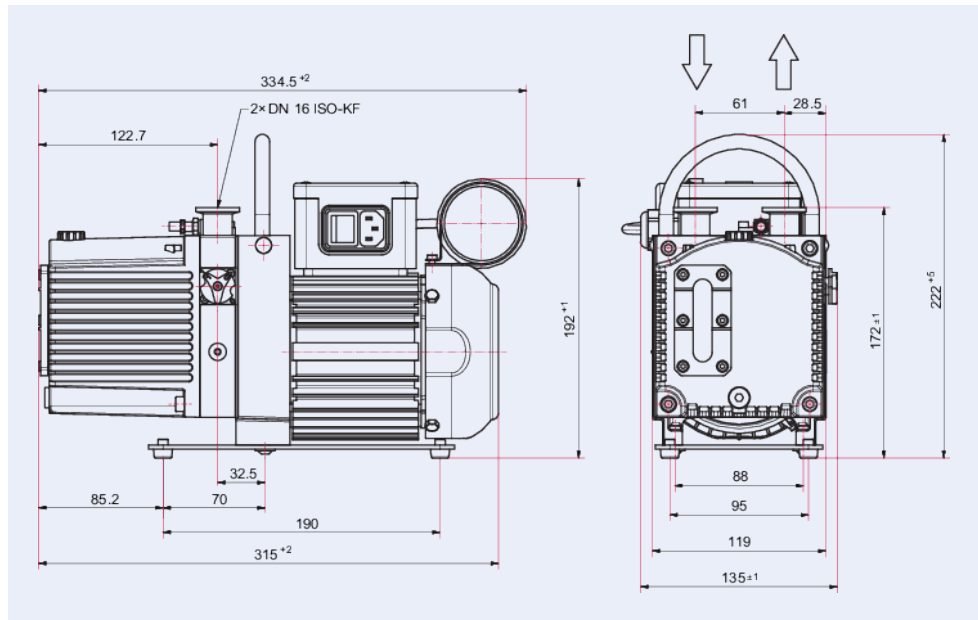
Duo 1.6, single-phase motor, 100 V, 50 Hz | 95 – 105 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 1.25 m³/h at 50 Hz / 1.50 m³/h at 60 Hz
- With 1-phase motor with C14 connector plug inside the terminal box
- Integrated gas ballast and safety valve
- For all low and medium vacuum applications
- Special feature: various motor voltages for wide range of application fields

Characteristics



Dimensions



Technical Data	Duo 1.6, single-phase motor, 100 V, 50 Hz 95 – 105 V, 60 Hz
Connection flange (in)	DN 16 ISO-KF
Connection flange (out)	DN 16 ISO-KF
Pumping speed at 50 Hz	1.25 m ³ /h 0.73575 cfm 20.83375 l/min
Pumping speed at 60 Hz	1.5 m ³ /h 0.8829 cfm 25.0005 l/min
Ultimate pressure	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Ultimate pressure with gas ballast	1 · 10 ⁻² hPa 7.5 · 10 ⁻³ Torr 1 · 10 ⁻² mbar
Exhaust pressure, min.	Atmospheric pressure
Exhaust pressure, max.	1,500 hPa 1,125 Torr 1,500 mbar
Water vapor capacity 50 Hz	15 g/h
Water vapor capacity 60 Hz	20 g/h
Water vapor tolerance at 50 Hz	15 hPa 11.3 Torr 15 mbar
Water vapor tolerance at 60 Hz	15 hPa 11.3 Torr 15 mbar
Rotation speed at 50 Hz	1,500 rpm 1,500 min ⁻¹
Rotation speed at 60 Hz	1,800 rpm 1,800 min ⁻¹
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 °F 313.2 K
Emission sound pressure level without gas ballast at 50 Hz	42 dB(A)
Emission sound pressure level without gas ballast at 60 Hz	44 dB(A)
Switch	Yes
Switch included	Yes
Input voltage 50 Hz	100 V
Input voltage 60 Hz	95 – 105 V
Input voltage(s)	100 V AC, 50 Hz 95 – 105 V AC (±10 %), 60 Hz
Recommended on-site electric fuse protection	4 / 5 A
Recommended on-site electric fuse protection 1	4 A
Recommended on-site electric fuse protection	5 A
Mains cable included	No
Mains cable	No, C14-plug inside the terminal box
Gas ballast flow	180 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	≤1 · 10 ⁻⁵ Pa m ³ /s ≤7.5 · 10 ⁻⁵ Torr l/s ≤1 · 10 ⁻⁴ mbar l/s
Dimensions (L x W x H)	336 x 136 x 192 mm
Input voltage: tolerance	±10 %
Rated power 50 Hz	0.075 kW
Rated power 60 Hz	0.09 kW
Protection degree	IP40
Certification	CE cTUVus certified according to UL / CSA 61010-1

Weight	9.6 kg 21.16 lb
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Order number	Duo 1.6, single-phase motor, 100 V, 50 Hz 95 – 105 V, 60 Hz
Duo 1.6, single-phase motor, 100 V, 50 Hz 95 – 105 V, 60 Hz	PK D56 702

Accessories	Duo 1.6, single-phase motor, 100 V, 50 Hz 95 – 105 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
Pumping system for DUO 1.6, prepared for P3, tested	PK E03 018 CT
Vane kit for DUO 1.6 / 3 PK D56... / PK D57...	PK E08 030 -T
Set of screws for Uno/Duo 1.6–11 (M)	PK E39 001 -T
Maintenance kit level II -RSSR for Duo 1.6 - 11, Uno 6 (with coupling)	PK E06 100 CT
Overhaul kit for DUO 1.6 (PK D56 ...)	PK E02 070 CT

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