

Duo 35/M

Dual-stage rotary vane pumps with a pumping speed up to 36 m³/h:



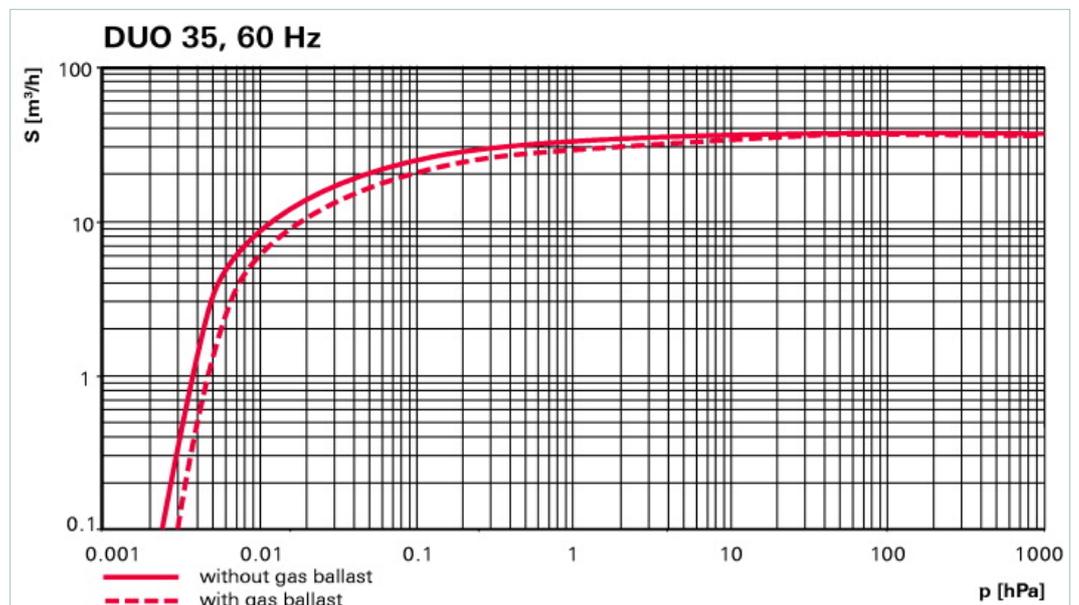
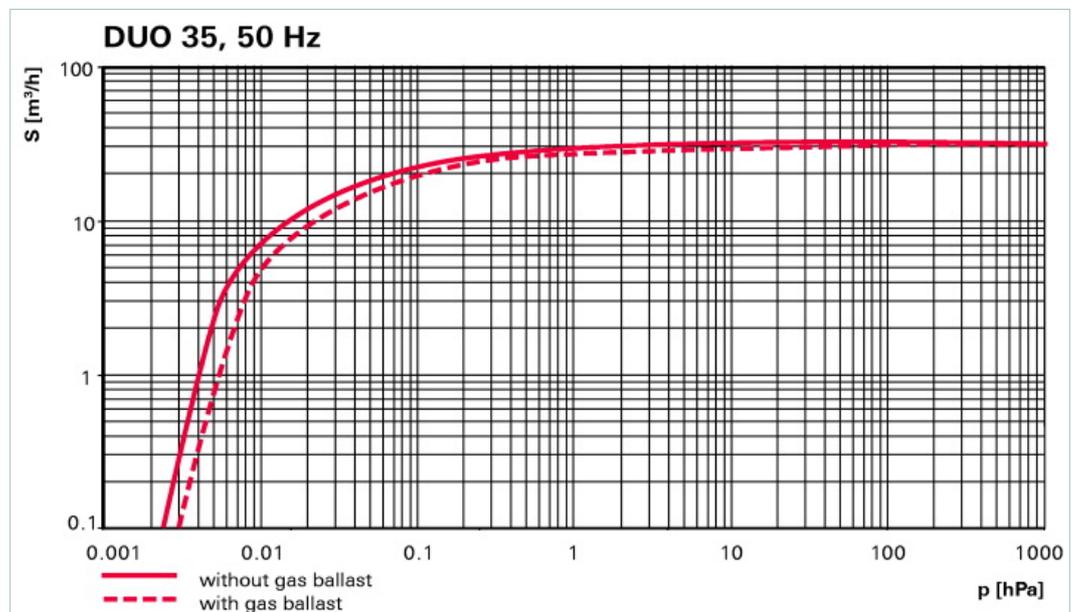
Duo 35 MC, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed up to 36 m³/h
- With 3-phase motor
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Magnetically coupled
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

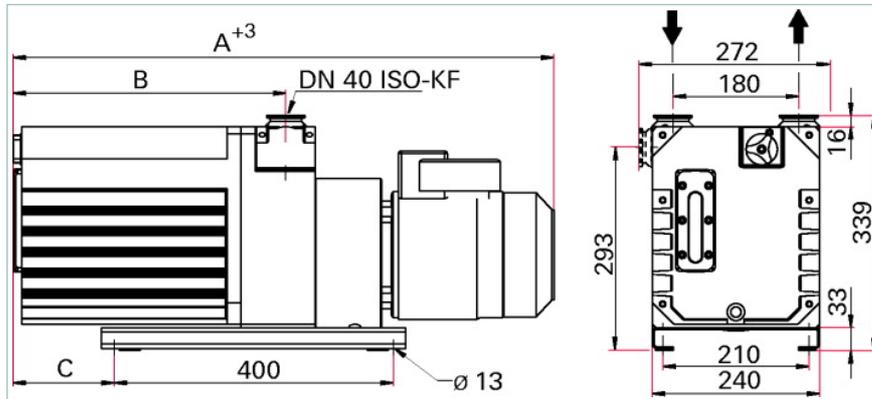
M = Magnetically coupled

MC = Corrosive gas version with magnetic coupling

TF = Temperature sensor



Dimensions



A	739 mm
B	312 mm
C	66 mm

Technical Data	Duo 35 MC, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz
Ambient temperature	12-40 °C 53.6-104 °F 285-313 K
Cooling method, standard	Air
Corrosive gas version	yes
Emission sound pressure level without gas ballast at 50 Hz	≤ 61 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 40 ISO-KF
Flange (out)	DN 40 ISO-KF
Leak rate magnetic coupling	≤ 1 · 10 ⁻⁷ Pa m ³ /s ≤ 7.5 · 10 ⁻⁷ Torr l/s ≤ 1 · 10 ⁻⁶ mbar l/s
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	230/400 (± 5 %) V
Mains requirement: voltage 60 Hz	265/460 (± 5 %) V
Motor protection	3TF
Motor version	3-phase Motor
Operating fluid	F5
Operating fluid filling	3.2 l
Protection category	IP 55
Pumping speed at 50 Hz	32 m ³ /h
Pumping speed at 60 Hz	36 m ³ /h
Rated power 50 Hz	1.1 kW
Rated power 60 Hz	1.3 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Ultimate pressure with gas ballast	≤ 4 · 10 ⁻³ hPa ≤ 3 · 10 ⁻³ Torr ≤ 4 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	≤ 3 · 10 ⁻³ hPa ≤ 2.25 · 10 ⁻³ Torr ≤ 3 · 10 ⁻³ mbar
Weight	74 kg 163.14 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 35/M

PK D45 027

Accessories	
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Adapter UNO/DUO 35/65 for Okta 250 A	PK 223 787 -T
Adapter UNO/DUO 35/65 for Okta 500 A / 1000 A	PK 224 629 -T
Blank flange gas ballast valve with O-ring and screws	PK 223 797 -T
KAS 40 C, condensate separator, corrosive version for pumping speeds up to 100 m ³ /h	PK Z10 408
KLF 040, cold trap	PK Z80 008
OFC 35/65, chemical oil filter	PK Z90 320
Oil pressure switch for Duo 35/65; Duo 35/65 MC	PK 223 720 -U
Oil pressure switch for Duo 35/65 with OFC/OFM	PK 223 741 -U
Oil return unit from ONF 35/65 to Duo 35/65	PK 005 950 -T
ONF 35/65 C, oil mist filter, corrosive gas version for Duo 35/65 MC	PK Z40 152
ONFR 35/65 C, oil mist separator with oil return to pump, corrosive gas version for Duo 35/65 MC	PK Z40 153
Operations monitoring unit 1 for Duo 35/65	PK 223 718 AU
Operations monitoring unit 3 for Duo 35/65, Duo 125/255	PK 223 739 -U
Soft starter 3.6 A	P 4769 001
Soft starter 6.5 A	P 4769 003
Soft starter 9 A	P 4769 004
Accessories UnoLine Plus	
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
F5, Perfluoropolyether, 0.5 l	PK 001 851 -T
F5, Perfluoropolyether, 1 l	PK 001 852 -T
F5, Perfluoropolyether, 5 l	PK 001 853 -T