

# Duo 35/M

Dual-stage rotary vane pumps with a pumping speed up to 36 m<sup>3</sup>/h:



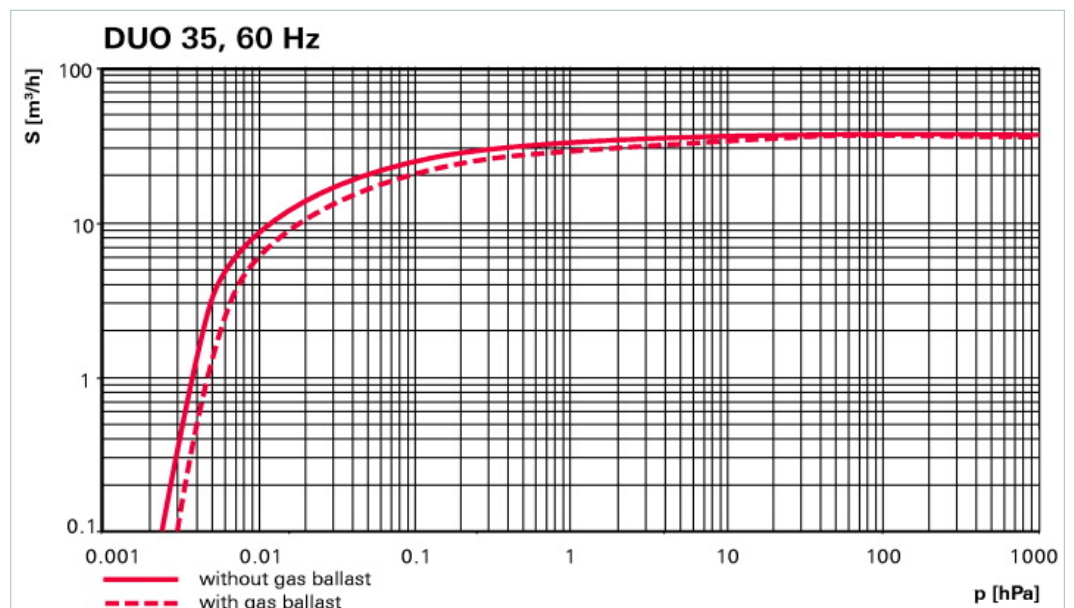
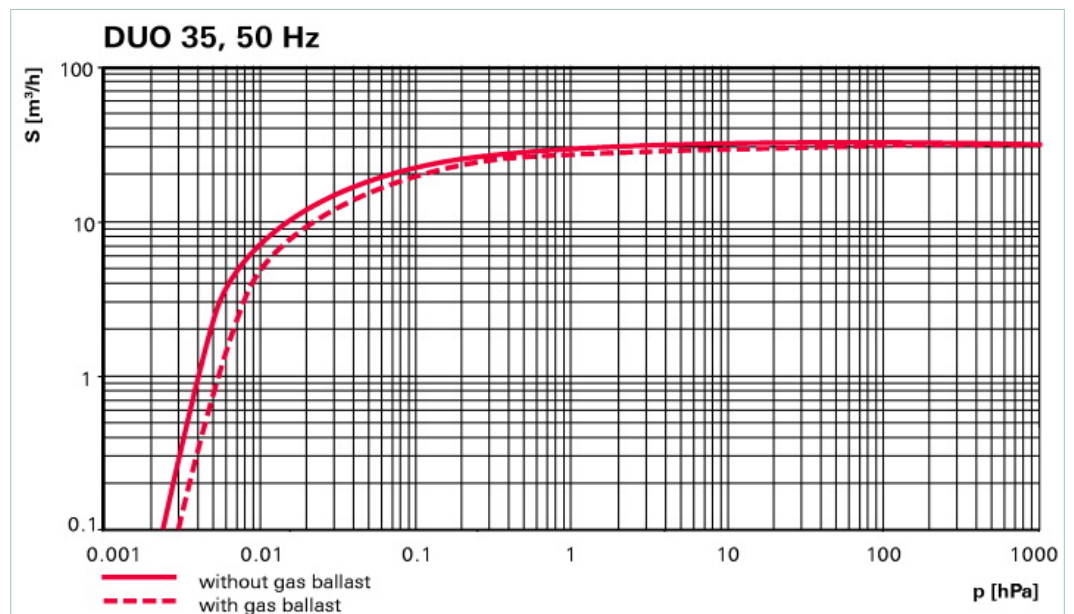
## Duo 35 MC, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed up to 36 m<sup>3</sup>/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

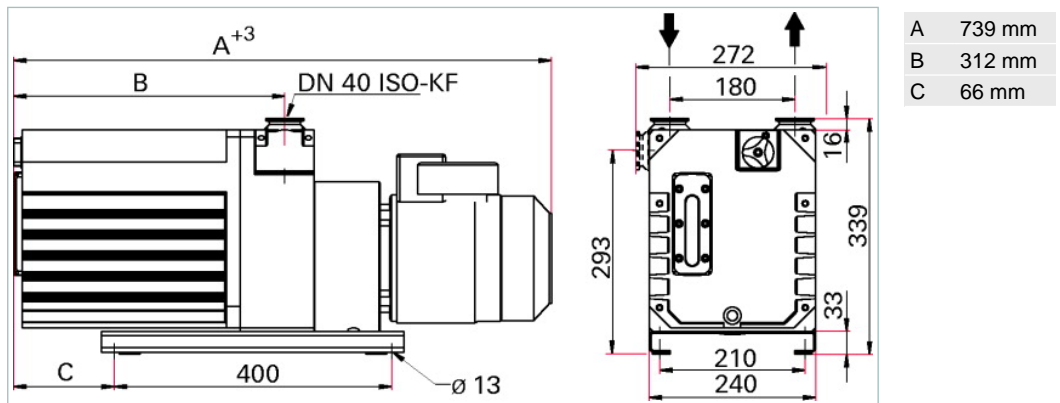
M = Magnetically coupled

MC = Corrosive gas version with magnetic coupling

TF = Temperature sensor



## Dimensions



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 <sup>-7</sup> Pa m <sup>3</sup> /s   ≤ 7.5 · 10 <sup>-7</sup> Torr l/s   ≤ 1 · 10 <sup>-6</sup> mbar l/s
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
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 <sup>3</sup> /h
Pumping speed at 60 Hz	36 m <sup>3</sup> /h
Rated power 50 Hz	1.1 kW
Rated power 60 Hz	1.3 kW
Rotation speed at 50 Hz	1500 min <sup>-1</sup>
Rotation speed at 60 Hz	1800 min <sup>-1</sup>
Ultimate pressure with gas ballast	≤ 4 · 10 <sup>-3</sup> hPa   ≤ 3 · 10 <sup>-3</sup> Torr   ≤ 4 · 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	74 kg   163.14 lb

Typical ultimate pressure according to PNEUROP

## Order number

Duo 35/M

PK D45 027

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