

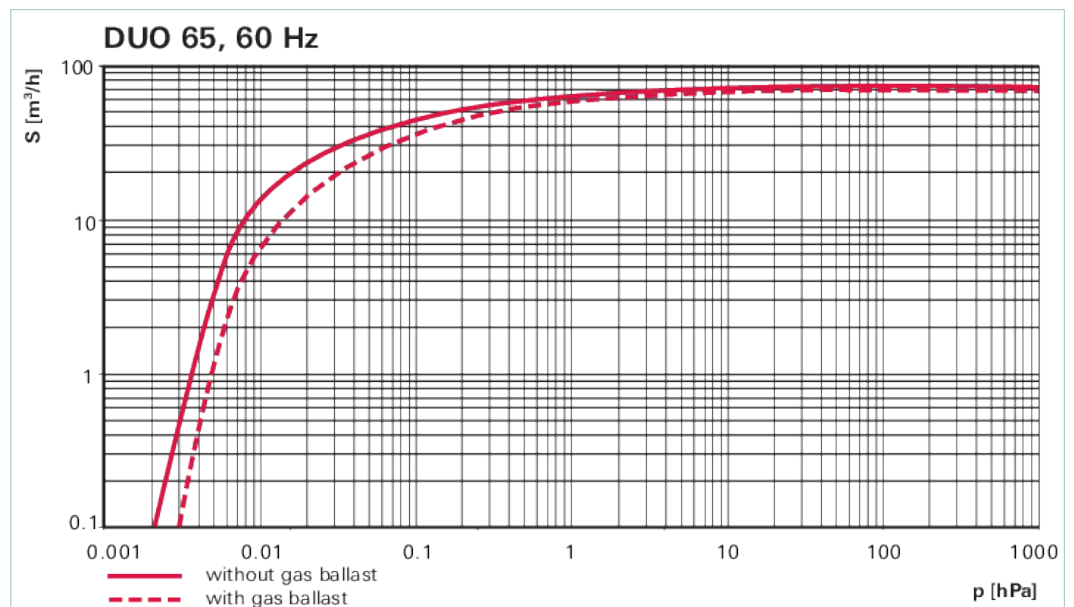
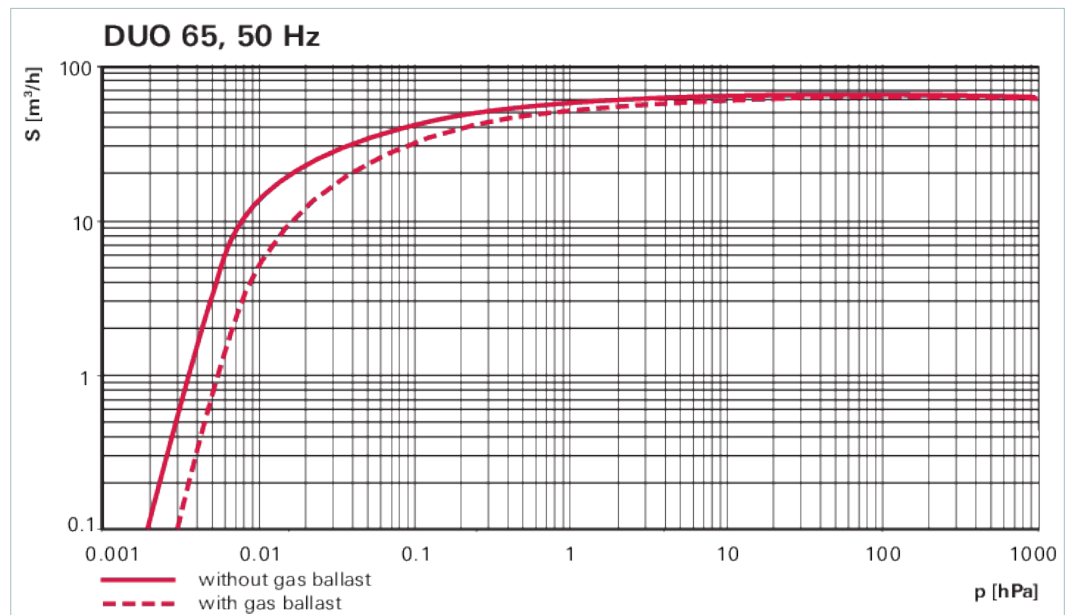
**Duo 65, 3-phase motor, PTC,  
230/400 V, 50 Hz | 265/460 V, 60 Hz**



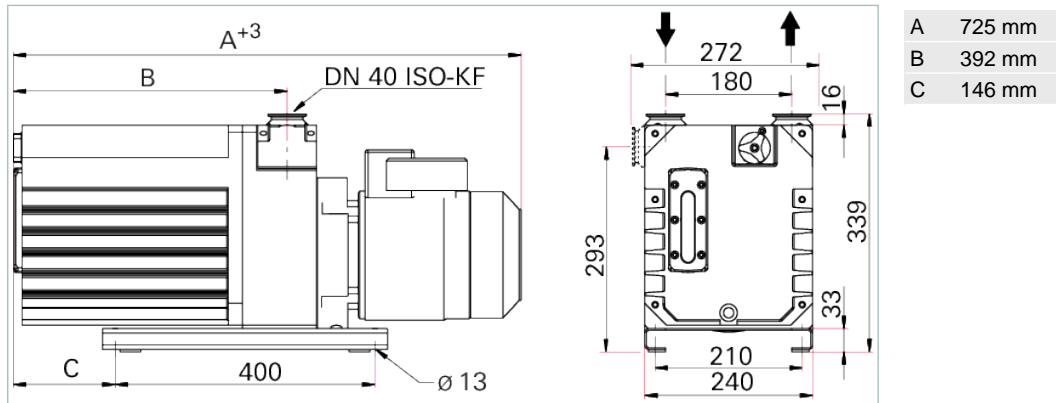
Similar Image

## Duo 65, 3-phase motor, PTC, 230/400 V, 50 Hz | 265/460 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed up to 70 m<sup>3</sup>/h
- With 3-phase motor
- With temperature sensor (PTC) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment



## Dimensions



Technical Data	Duo 65, 3-phase motor, PTC, 230/400 V, 50 Hz   265/460 V, 60 Hz
Connection flange (in)	DN 40 ISO-KF
Connection flange (out)	DN 40 ISO-KF
Pumping speed at 50 Hz	62 m <sup>3</sup> /h   36.49 cfm   1,033.33 l/min
Pumping speed at 60 Hz	70 m <sup>3</sup> /h   41.2 cfm   1,166.67 l/min
Final pressure with gas ballast	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Final pressure without gas ballast	2 · 10 <sup>-3</sup> hPa   1.5 · 10 <sup>-3</sup> Torr   2 · 10 <sup>-3</sup> mbar
Exhaust pressure, min.	Atmospheric pressure
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Rotation speed at 50 Hz	1,500 rpm   1,500 min <sup>-1</sup>
Rotation speed at 60 Hz	1,800 rpm   1,800 min <sup>-1</sup>
Cooling method, standard	Air
Motor	Yes
Motor protection	PTC
Motor version	3-ph motor
Ambient temperature	12-40 °C   53.6-104 °F   285-313 K
Continuous gas temperature, max.	40 °C   104 °F   313 K
Emission sound pressure level without gas ballast at 50 Hz	≤ 61 dB(A)
Switch	No
Mains requirement: voltage (range)	± 5 %
Mains connection: voltage 50 Hz	230/400 V
Mains connection: voltage 60 Hz	265/460 V
Mains cable	No
Gas ballast flow	1800 l/h
Gas ballast	Yes
Operating fluid	P3
Operating fluid amount	4.2 l
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
Dimensions (L x W x H)	728 x 240 x 340 mm   28.66 x 9.45 x 13.39 inch
Rated power 50 Hz	1.5 kW
Rated power 60 Hz	1.8 kW
Protection category	IP55
Weight	75 kg   165.34 lb

## Order number

Duo 65

**PK D46 602**

<b>Accessories</b>	
<b>Connections Adapters for OktaLine to Rotary Vane Pumps</b>	
Adapter Uno/Duo 35/65 for Okta 250	PK 223 787 -T
Adapter Uno/Duo 35/65 for Okta 300/500/600/800/1000	PK 224 629 -T
<b>Flanges/Ports Blank flanges</b>	
Blank flange gas ballast valve with O-ring and screws	PK 223 797 -T
<b>Monitoring Operations monitoring units</b>	
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 AU
<b>Monitoring Pressure switches</b>	
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
<b>Other</b>	
Cold Trap, LN2, angled, DN 40 ISO-KF, 6" body, stainless steel / FPM	FTNA-6-1502-NWB
<b>Protection Activated carbon filters</b>	
FAK 040, activated carbon filter	PK Z30 008
<b>Protection Catalyzer traps</b>	
URB 040, catalytic trap, 230 V	PT U10 260
URB 040, catalytic trap, 115 V	PT U10 261
<b>Protection Condensate separators</b>	
KAS 40, condensate separator for pumping speeds up to 120 m <sup>3</sup> /h	PK Z10 008
<b>Protection Dust separators/Inlet particle filters</b>	
SAS 40, DN 40 ISO-KF, polyester filter	PK Z60 510
<b>Protection Flushing devices</b>	
Gas flushing device for Duo 35 and Duo 65	PK 007 300 -T
<b>Protection Motor protection</b>	
PTC-resistor tripping device for motor protection 220 – 240 V AC	P 4768 052 FQ
<b>Protection Oil filters</b>	
OFC 35/65, chemical oil filter	PK Z90 320
OFM 35 / 65, mechanical oil filter	PK Z90 321
External Oil Filter DE 1, 230 V, 50 Hz	068990
External Oil Filter DE 1, 110 V	068991
External Oil Filter DE 2, 230 V, 50 Hz	104374
External Oil Filter DE 2, 110 V, 50 Hz/60 Hz	104375
<b>Protection Oil mist eliminators</b>	
OME 40 M, oil mist separator for Duo 35/65, Duo 35/65 M	PK Z40 150
OME 40 MR, oil mist separator with oil return to pump for Duo 35/65, Duo 35/65 M	PK Z40 151
Oil mist separator OME 40 S	104887
<b>Protection Oil return units from oil mist eliminators</b>	
Oil return unit ODK from OME 40 M/C to Duo 35/65	PK 005 950 -T
<b>Protection Soft starters</b>	
Soft starter 3.6 A	P 4769 001
Soft starter 6.5 A	P 4769 003
Soft starter 9 A	P 4769 004

<b>Accessories</b>	
<b>Protection Sorption traps, corrosive version</b>	
Sorption Trap ST 40, 230 V (without Adsorbend Charge)	<b>053380</b>
Sorption Trap ST 40, 115 V (without Adsorbend Charge)	<b>104371</b>
<b>Valves Gas ballast conversion kits</b>	
Gas ballast valve conversion kit with hose nozzle	<b>PK 223 713 -U</b>
<b>Valves Gas ballast valves, magnetic</b>	
Gas ballast valve - conversion kit in corrosive gas version, including 24 V DC solenoid valve	<b>PK 223 717 -U</b>
<b>Consumables</b>	
P3, mineral oil, 1 l	<b>PK 001 106 -T</b>
P3, mineral oil, 5 l	<b>PK 001 107 -T</b>
P3, mineral oil, 20 l	<b>PK 001 108 -T</b>
D1, synthetic diester based oil, 1 l	<b>PK 005 875 -T</b>
D1, synthetic diester based oil, 5 l	<b>PK 005 876 -T</b>
D1, synthetic diester based oil, 20 l	<b>PK 005 877 -T</b>

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