



# Duo 125/M

Dual-stage rotary vane pumps with a pumping speed up to 135 m<sup>3</sup>/h:





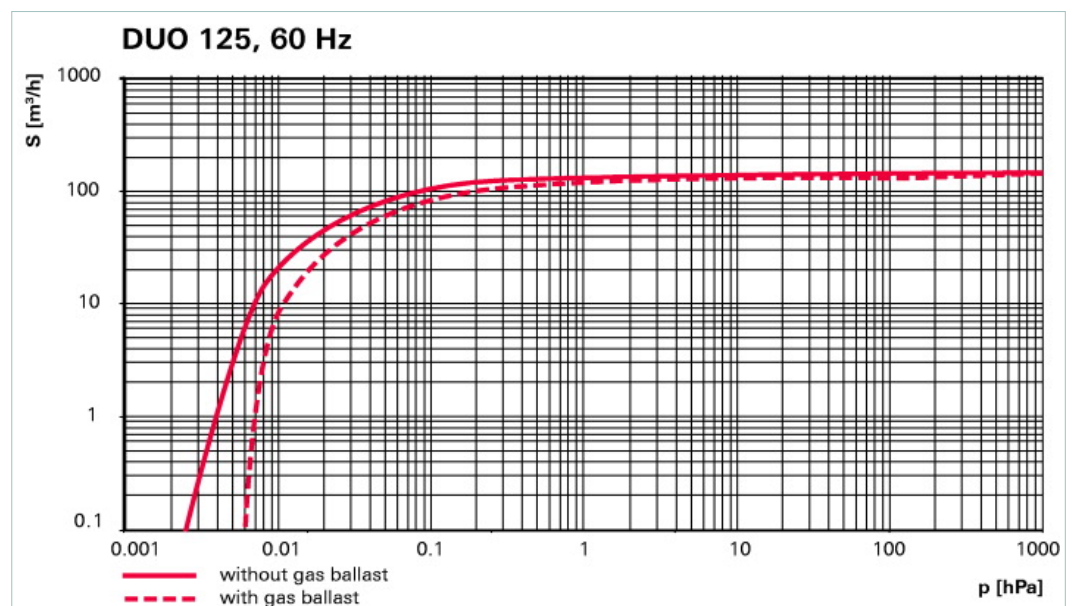
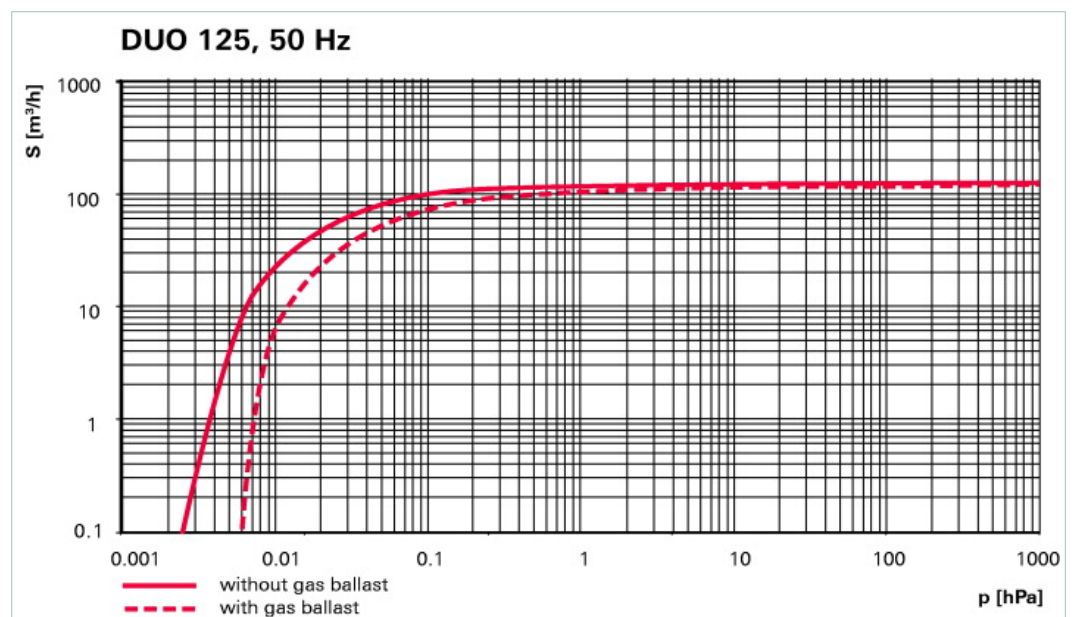
Similar Image

## Duo 125, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

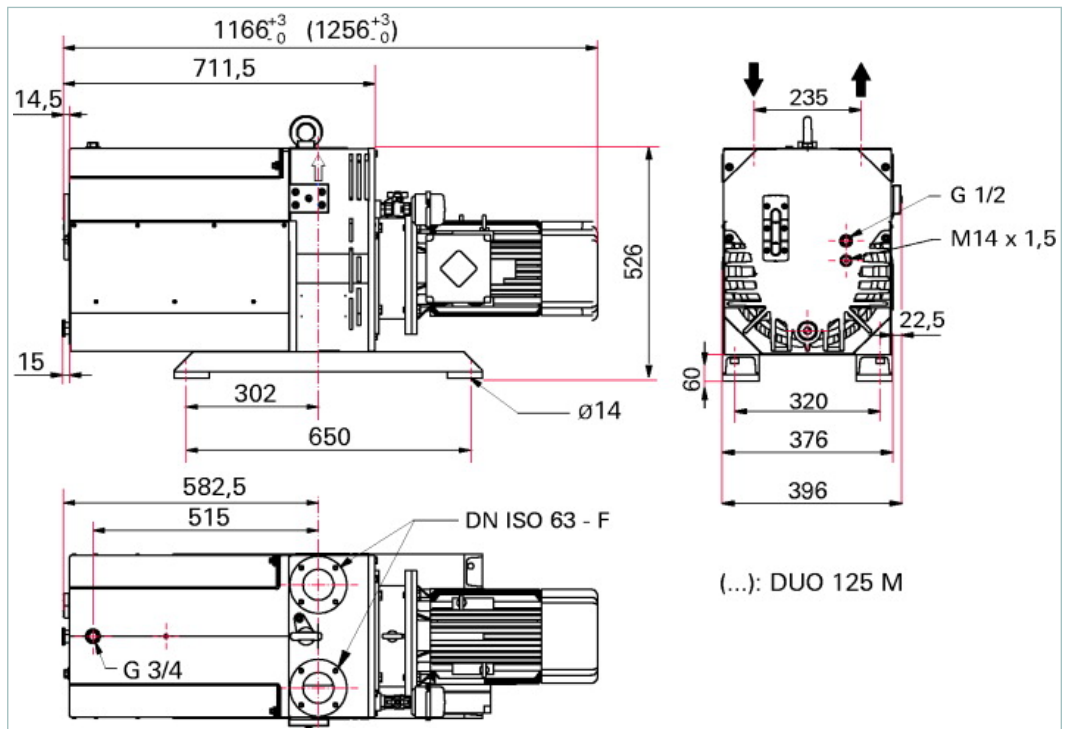
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 135 m<sup>3</sup>/h
- With 3-phase motor
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for wide application field
- Other motor voltages available on request

TF = Temperature sensor

M = Magnetic coupling



## Dimensions



Technical Data	Duo 125, 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
Emission sound pressure level without gas ballast at 50 Hz	≤ 75 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 63 ISO-F
Flange (out)	DN 63 ISO-F
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
Mains requirement: voltage 50 Hz	230/400 V
Mains requirement: voltage 60 Hz	265/460 V
Motor protection	3TF
Motor version	3-phase Motor
Operating fluid	P3
Operating fluid filling	14 l
Protection category	IP 55
Pumping speed at 50 Hz	115 m <sup>3</sup> /h
Pumping speed at 60 Hz	135 m <sup>3</sup> /h
Rated power 50 Hz	4.0 kW
Rated power 60 Hz	4.5 kW
Rotation speed at 50 Hz	1000 min <sup>-1</sup>
Rotation speed at 60 Hz	1200 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	2 · 10 <sup>-3</sup> hPa   1.5 · 10 <sup>-3</sup> Torr   2 · 10 <sup>-3</sup> mbar
Weight	225 kg   496.04 lb

Typical ultimate pressure according to PNEUROP

Order number	
Duo 125/M	PK D47 602

Accessories	
<b>Accessories</b>	
KAS 63, condensate separator for pumping speeds up to 250 m³/h	PK Z10 010
KLF 063, cold trap	PK Z80 010
OFM 125, mechanical oil filter	PK Z90 340
Oil pressure switch for Duo 125/255	PK 223 806 -T
ONF 63, oil mist filter for pumping speeds of up to 135 m³/h	PK Z40 010
Operating fluid level monitoring	PK 006 001 -T
Operations monitoring unit 3 for Duo 35/65, Duo 125/255	PK 223 739 -U
Temperature sensor for operating fluid	PK 006 040 -T
ZFO 063, zeolite trap	PK Z70 010
<b>Accessories HenaLine</b>	
SAS 63 dust separator, DN 63 ISO-K, polyester filter	PK Z60 511
<b>Accessories UnoLine Plus</b>	
FAK 063, activated carbon filter	PK Z30 010
Oil return unit, ORF 005, standard version	PK Z90 065
PTC-resistor tripping device	P 4768 051 FQ
<b>Consumables</b>	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 5 l	PK 001 107 -T
P3, mineral oil, 20 l	PK 001 108 -T