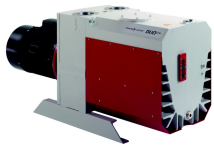


# Duo 255/M

Dual-stage rotary vane pumps with a pumping speed up to 300 m<sup>3</sup>/h:





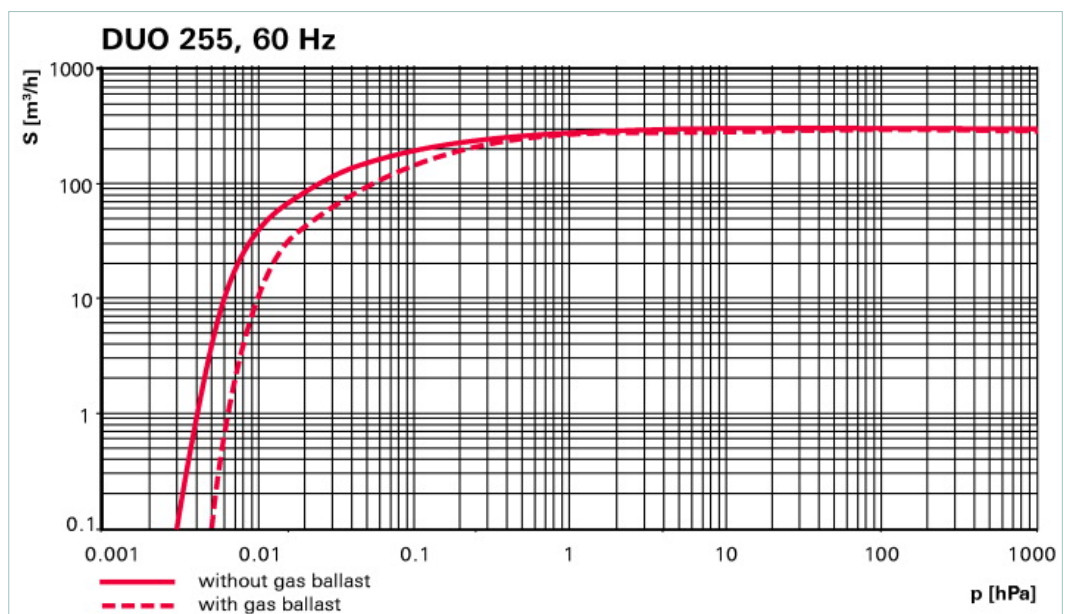
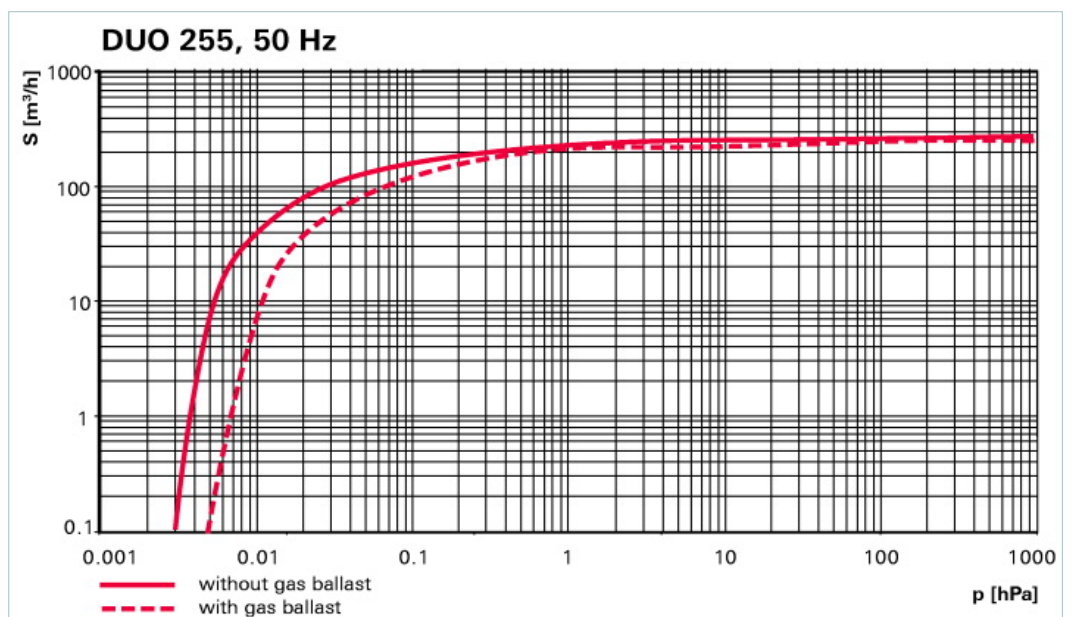
Similar Image

## Duo 255 M, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

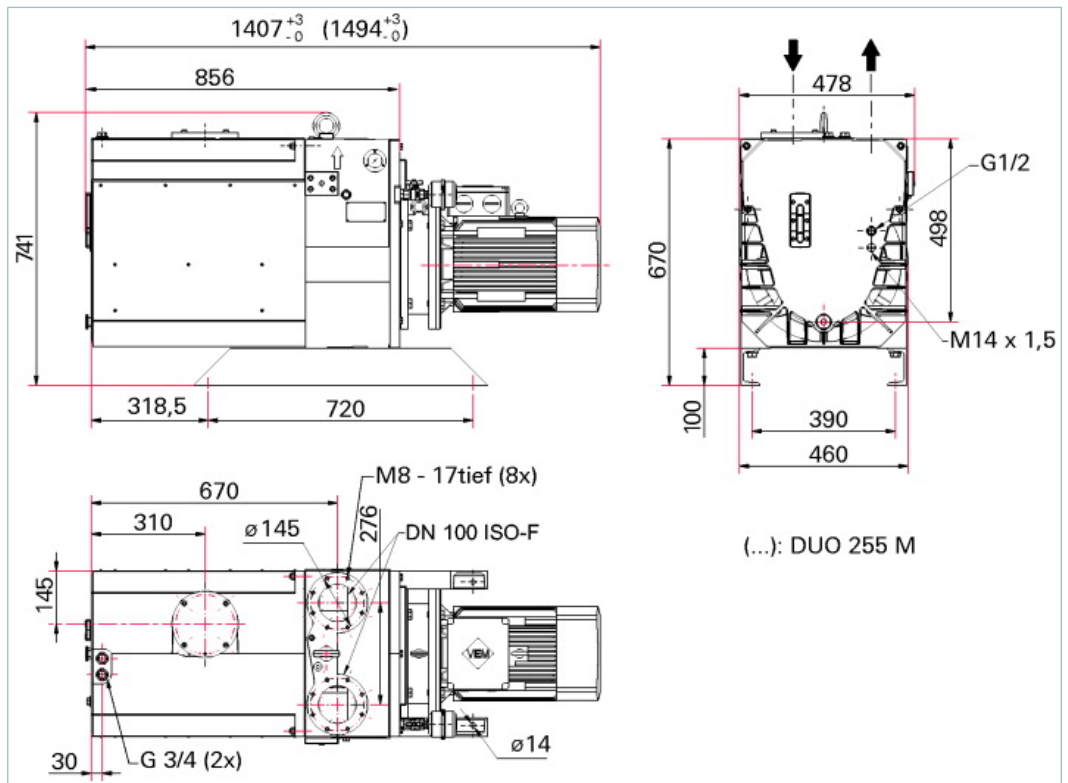
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 300 m<sup>3</sup>/h
- 3-phase motor for 230/400 V, 50 Hz; 265/460 V, 60 Hz supply voltages
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

TF = Temperature sensor

M = Magnetic coupling



## Dimensions



Technical Data	Duo 255 M, 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 100 ISO-F
Flange (out)	DN 100 ISO-F
Leak rate magnetic coupling	$\leq 1 \cdot 10^{-7}$ Pa m <sup>3</sup> /s   $\leq 7.5 \cdot 10^{-7}$ Torr l/s   $\leq 1 \cdot 10^{-6}$ mbar l/s
Leak rate safety valve	$\leq 1 \cdot 10^{-5}$ Pa m <sup>3</sup> /s   $\leq 7.5 \cdot 10^{-5}$ Torr l/s   $\leq 1 \cdot 10^{-4}$ mbar l/s
Magnetic coupling	yes
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	25 l
Protection category	IP 55
Pumping speed at 50 Hz	250 m <sup>3</sup> /h
Pumping speed at 60 Hz	300 m <sup>3</sup> /h
Rated power 50 Hz	7.5 kW
Rated power 60 Hz	9 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	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar

<b>Technical Data</b>	<b>Duo 255 M, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz</b>
Weight	397 kg   875.23 lb

Typical ultimate pressure according to PNEUROP

<b>Order number</b>	
Duo 255/M	<b>PK D48 152</b>

<b>Accessories</b>	
<b>Accessories</b>	
KAS 100, condensate separator for pumping speeds up to 630 m <sup>3</sup> /h	<b>PK Z10 012</b>
OFM 255, mechanical oil filter	<b>PK Z90 341</b>
Oil pressure switch for Duo 125/255	<b>PK 223 806 -T</b>
ONF 100, oil mist filter for pumping speeds up to 300 m <sup>3</sup> /h	<b>PK Z40 012</b>
Operating fluid level monitoring	<b>PK 006 001 -T</b>
Operations monitoring unit 3 for Duo 35/65, Duo 125/255	<b>PK 223 739 -U</b>
Temperature sensor for operating fluid	<b>PK 006 040 -T</b>
<b>Accessories HenaLine</b>	
SAS 100 dust separator, DN 100 ISO-K, polyester filter	<b>PK Z60 512</b>
<b>Accessories UnoLine Plus</b>	
FAK 100, activated carbon filter	<b>PK Z30 012</b>
Oil return unit, ORF 005, standard version	<b>PK Z90 065</b>
PTC-resistor tripping device	<b>P 4768 051 FQ</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>