



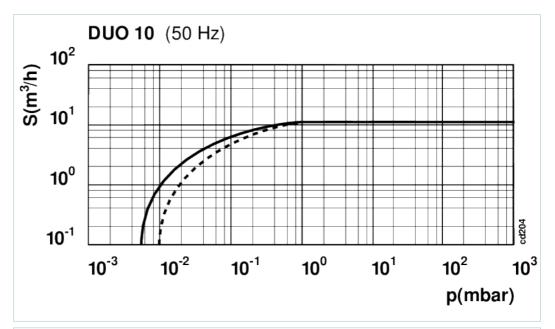
# Duo 10 M, 1-phase motor, 200-230 V, 50 Hz; 200-240 V, 60 Hz

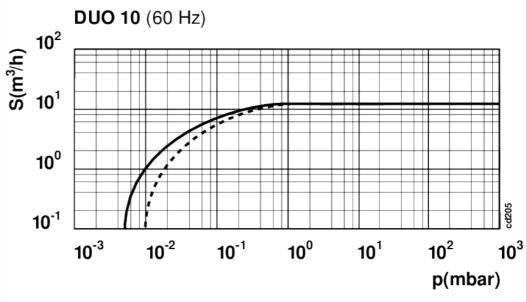


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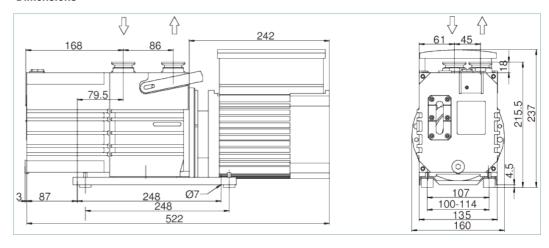
### Duo 10 M, 1-phase motor, 200-230 V, 50 Hz; 200-240 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of up to 12  $\mbox{m}^{3}/\mbox{h}$
- With Single-phase motor
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Magnetically coupled
- Special feature: Various motor voltages for worldwide employment





### **Dimensions**



Semission sound pressure level without gas pallast at 50 Hz	Technical Data	Duo 10 M, 1-phase motor, 200-230 V, 50 Hz; 200-240 V, 60 Hz
Emission sound pressure level without gas pallast at 50 Hz Exhaust pressure, max.  Exhaust pressure, min.  Elange (in)  Flange (out)  Leak rate safety valve  Magnetic coupling  Mains cable  Mains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Motor version  Deparating fluid  Deparating fluid filling  Protection category  Pumping speed at 50 Hz  Rated power 50 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz	Ambient temperature	12 - 40 °C
Detail ast at 50 Hz  Exhaust pressure, max.  Exhaust pressure, min.  Flange (in)  DN 25 ISO-KF  Flange (out)  DN 25 ISO-KF  Leak rate safety valve  1 · 10-5 Pa m³/s  Magnetic coupling  Yes  Mains cable  Wains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Motor version  Deparating fluid  Deparating fluid filling  Protection category  Pumping speed at 50 Hz  Pumping speed at 60 Hz  Rated power 60 Hz  Rotation speed at 60 Hz  Rotation speed sp	Cooling method, standard	Air
Exhaust pressure, min.  250 hPa  DN 25 ISO-KF  Flange (out)  DN 25 ISO-KF  DN 25 ISO-KF  DN 25 ISO-KF  Leak rate safety valve  1 · 10-5 Pa m³/s  Magnetic coupling  Yes  Mains cable  Yes  Mains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Mains requirement: voltage 60 Hz  Motor version  Deperating fluid  Deprating fluid filling  Protection category  Pumping speed at 50 Hz  Pumping speed at 50 Hz  Rated power 50 Hz  Rated power 60 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation speed spee	Emission sound pressure level without gas ballast at 50 Hz	= 57 dB (A)
Flange (in)  DN 25 ISO-KF  Flange (out)  DN 25 ISO-KF  Leak rate safety valve  1 ⋅ 10 <sup>-5</sup> Pa m³/s  Magnetic coupling  Yes  Mains cable  Ves  Mains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Motor version  Deperating fluid  P3  Deperating fluid filling  P1  Protection category  Pumping speed at 50 Hz  Pumping speed at 60 Hz  Rated power 50 Hz  Rated power 60 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation speed	Exhaust pressure, max.	1500 hPa
Flange (out)  DN 25 ISO-KF  Leak rate safety valve  1 · 10-5 Pa m³/s  Magnetic coupling  Yes  Mains cable  Yes  Mains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Motor version  Deparating fluid  P3  Deparating fluid filling  1 I  Protection category  IP 54  Pumping speed at 50 Hz  Pumping speed at 60 Hz  Rated power 50 Hz  Rotation speed at 50 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation speed spe	Exhaust pressure, min.	250 hPa
Leak rate safety valve       1 ⋅ 10-5 Pa m³/s         Magnetic coupling       Yes         Mains cable       Yes         Mains requirement: voltage (selectable)       100-110, 50 Hz; 100-120, 60 Hz V         Mains requirement: voltage 50 Hz       200-230 (± 5 %) V         Mains requirement: voltage 60 Hz       200-240 (± 5 %) V         Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Flange (in)	DN 25 ISO-KF
Magnetic coupling       Yes         Mains cable       Yes         Mains requirement: voltage (selectable)       100-110, 50 Hz; 100-120, 60 Hz V         Mains requirement: voltage 50 Hz       200-230 (± 5 %) V         Mains requirement: voltage 60 Hz       200-240 (± 5 %) V         Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 · 10⁻³ hPa   4.5 · 10⁻³ Torr   6 · 10⁻³ mbar	Flange (out)	DN 25 ISO-KF
Mains cable  Mains requirement: voltage (selectable)  Mains requirement: voltage 50 Hz  Mains requirement: voltage 50 Hz  Mains requirement: voltage 60 Hz  Mains requirement: voltage 60 Hz  Motor version  Deprating fluid  Deprating fluid  Pa  Deprating fluid  Pirotection category  Pumping speed at 50 Hz  Pumping speed at 60 Hz  Rated power 50 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation speed s	Leak rate safety valve	1 · 10 <sup>-5</sup> Pa m³/s
Mains requirement: voltage (selectable)       100-110, 50 Hz; 100-120, 60 Hz V         Mains requirement: voltage 50 Hz       200-230 (± 5 %) V         Mains requirement: voltage 60 Hz       200-240 (± 5 %) V         Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 · 10⁻³ hPa   4.5 · 10⁻³ Torr   6 · 10⁻³ mbar	Magnetic coupling	Yes
Mains requirement: voltage 50 Hz       200-230 (± 5 %) V         Mains requirement: voltage 60 Hz       200-240 (± 5 %) V         Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 · 10⁻³ hPa   4.5 · 10⁻³ Torr   6 · 10⁻³ mbar	Mains cable	Yes
Wains requirement: voltage 60 Hz       200-240 (± 5 %) V         Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Mains requirement: voltage (selectable)	100-110, 50 Hz; 100-120, 60 Hz V
Motor version       1-phase Motor         Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Mains requirement: voltage 50 Hz	200-230 (± 5 %) V
Operating fluid       P3         Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Mains requirement: voltage 60 Hz	200-240 (± 5 %) V
Operating fluid filling       1 I         Protection category       IP 54         Pumping speed at 50 Hz       10 m³/h         Pumping speed at 60 Hz       12 m³/h         Rated power 50 Hz       0.45 kW         Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Motor version	1-phase Motor
Protection category IP 54  Pumping speed at 50 Hz 10 m³/h  Pumping speed at 60 Hz 12 m³/h  Rated power 50 Hz 0.45 kW  Rated power 60 Hz 0.55 kW  Rotation speed at 50 Hz 1,500 rpm   1,500 min⁻¹  Rotation speed at 60 Hz 1,800 rpm   1,800 min⁻¹  Switch Yes  Ultimate pressure with gas ballast 6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Operating fluid	P3
Pumping speed at 50 Hz  Pumping speed at 60 Hz  Rated power 50 Hz  Rated power 60 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation s	Operating fluid filling	11
Pumping speed at 60 Hz  Rated power 50 Hz  Rated power 60 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Switch  Yes  Ultimate pressure with gas ballast  12 m³/h  0.45 kW  1,500 rpm   1,500 min-1  1,800 rpm   1,800 min-1  Yes	Protection category	IP 54
Rated power 50 Hz  Rated power 60 Hz  Rotation speed at 50 Hz  Rotation speed at 60 Hz  Rotation speed at 60 Hz  Switch  Yes  Ultimate pressure with gas ballast  0.45 kW  1,500 rpm   1,500 min <sup>-1</sup> 1,800 rpm   1,800 min <sup>-1</sup> Yes  1,800 rpm   1,800 min <sup>-1</sup> Yes	Pumping speed at 50 Hz	10 m <sup>3</sup> /h
Rated power 60 Hz       0.55 kW         Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Pumping speed at 60 Hz	12 m <sup>3</sup> /h
Rotation speed at 50 Hz       1,500 rpm   1,500 min⁻¹         Rotation speed at 60 Hz       1,800 rpm   1,800 min⁻¹         Switch       Yes         Ultimate pressure with gas ballast       6 ⋅ 10⁻³ hPa   4.5 ⋅ 10⁻³ Torr   6 ⋅ 10⁻³ mbar	Rated power 50 Hz	0.45 kW
Rotation speed at 60 Hz  1,800 rpm   1,800 min <sup>-1</sup> Switch  Yes  Ultimate pressure with gas ballast  6 · 10 <sup>-3</sup> hPa   4.5 · 10 <sup>-3</sup> Torr   6 · 10 <sup>-3</sup> mbar	Rated power 60 Hz	0.55 kW
Switch Yes  Ultimate pressure with gas ballast 6 · 10 · 3 hPa   4.5 · 10 · 3 Torr   6 · 10 · 3 mbar	Rotation speed at 50 Hz	1,500 rpm   1,500 min <sup>-1</sup>
Ultimate pressure with gas ballast $6 \cdot 10^{-3} \text{ hPa} \mid 4.5 \cdot 10^{-3} \text{ Torr} \mid 6 \cdot 10^{-3} \text{ mbar}$	Rotation speed at 60 Hz	1,800 rpm   1,800 min <sup>-1</sup>
'	Switch	Yes
Iltimate pressure without das hallast 3 · 10 <sup>-3</sup> hPa I 2 25 · 10 <sup>-3</sup> Torr I 3 · 10 <sup>-3</sup> mhar	Ultimate pressure with gas ballast	6 · 10 <sup>-3</sup> hPa   4.5 · 10 <sup>-3</sup> Torr   6 · 10 <sup>-3</sup> mbar
Skilliate pressure without gue ballast 0 10 111 a   2.20 10 101   0 10 11bal	Ultimate pressure without gas ballast	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Neight 30 kg   66.14 lb	Weight	30 kg   66.14 lb

Order number	
Duo 10 M	PK D62 712

Accessories	
Condensate separators	
KAS 25, condensate separator for pumping	
speeds up to 12 m <sup>3</sup> /h	PK Z10 032
Dust filter	
SAS 25, dust separator, DN 25 ISO-KF, polyester filter	PK Z60 508
FAK	
FAK 025, activated carbon filter	PK Z30 006
Heating rod for zeolite trap (ZFO)	
Heating rod for ZFO 025, 220 V, 50/60 Hz	PK Z90 012 A
KLF	
KLF 025, cold trap	PK Z80 006
Oil pressure switch	
Oil pressure switch for Duo 5/10/20 M and Penta 20/35	PK 196 484 -T
OME	
Oil mist eliminator OME 25 S	104200
OME M	
OME 25 M, oil mist filter for pumping speeds of up to 12 $\mathrm{m}^3/\mathrm{h}$	PK Z40 157
Operating fluid return line from operating fluid mist filter	
Oil return unit from OME 25 M, 25 L, 25 XL	PK 196 177 -T
Oil return unit ODK from OME 16 M to Duo 5 M,	
from OME 25 M to Duo 10 M, Duo 20 M	PK 196 172 -T
URB	
URB 025, catalytic trap, 115 V	PT U10 761
URB 025, catalytic trap, 230 V	PT U10 760
Zeolite trap	
ZFO 025, zeolite trap	PK Z70 006
Consumables	
P3, mineral oil, 1 I	PK 001 106 -T
P3, mineral oil, 5 I	PK 001 107 -T
P3, mineral oil, 20 l	PK 001 108 -T

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