



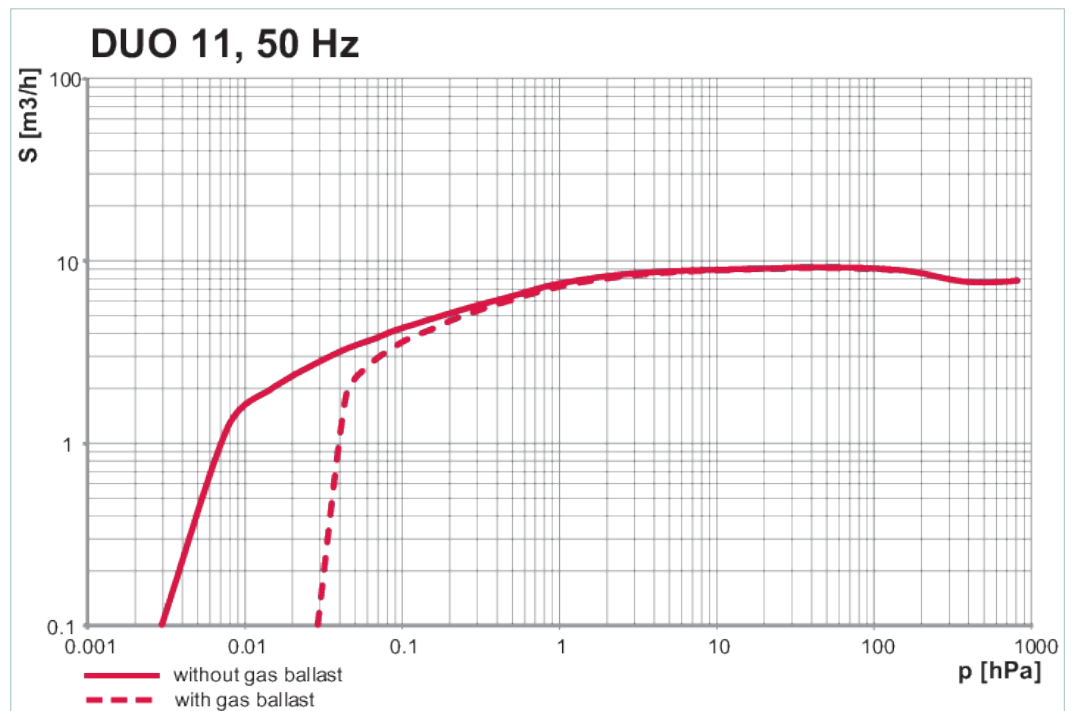
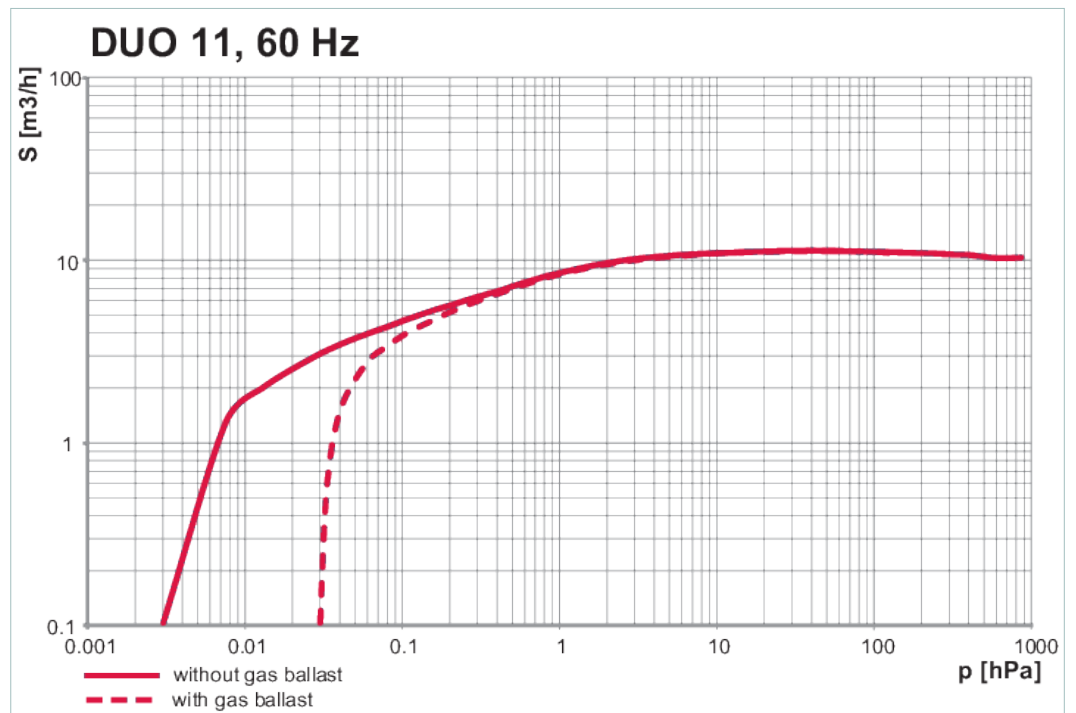
# Duo 11 M, 1-phase motor, 100–115 V, 50/60 Hz



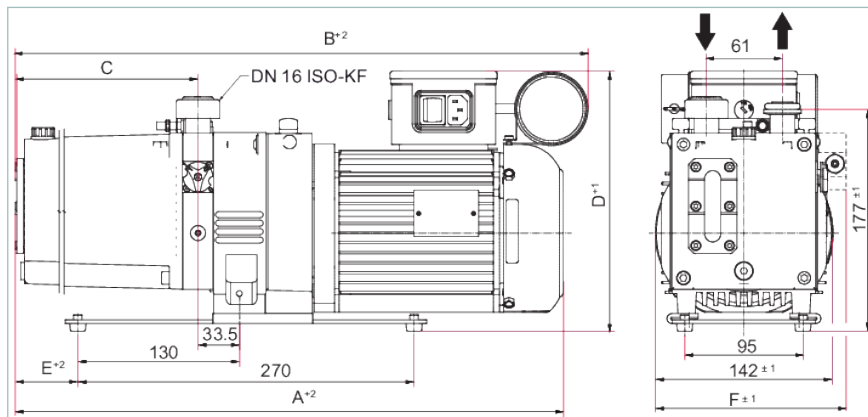
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## Duo 11 M, 1-phase motor, 100–115 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 9 m<sup>3</sup>/h at 50 Hz / 10.5 m<sup>3</sup>/h at 60 Hz
- With magnetic coupling
- With single-phase motor with C14 connector plug inside the terminal box
- Integrated gas ballast and safety valve
- OME oil return device is included with the pump
- For all low and medium vacuum applications
- Special feature: various motor voltages for wide range of application fields



## Dimensions



A	456 mm
B	476 mm
C	185 mm
D	208 mm
E	88 mm

Technical Data	Duo 11 M, 1-phase motor, 100–115 V, 50/60 Hz
Ambient temperature	12-40 °C   53.6-104 °F   285-313 K
Cooling method, standard	Air
Dimensions (L x W x H)	476 x 142 x 208 mm   18.74 x 5.59 x 8.19 inch
Emission sound pressure level without gas ballast at 50 Hz	± 54 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 16 ISO-KF
Flange (out)	DN 16 ISO-KF
Leak rate safety valve	1 · 10 <sup>-5</sup> Pa m <sup>3</sup> /s
Magnetic coupling	Yes
Mains cable	No
Mains requirement: voltage (range)	±10 %
Mains requirement: voltage 50 Hz	100 – 115 V
Mains requirement: voltage 60 Hz	100 – 115 V
Motor protection	Bimetal
Motor version	1-ph motor
Operating fluid	P3
Operating fluid filling	0.5 l
Protection category	IP40
Pumping speed at 50 Hz	9 m <sup>3</sup> /h
Pumping speed at 60 Hz	10.5 m <sup>3</sup> /h
Rated power 50 Hz	0.25 kW
Rated power 60 Hz	0.3 kW
Rotation speed at 50 Hz	3,000 rpm   3,000 min <sup>-1</sup>
Rotation speed at 60 Hz	3,600 rpm   3,600 min <sup>-1</sup>
Switch New	Yes
Ultimate pressure with gas ballast	3 · 10 <sup>-2</sup> hPa   2.25 · 10 <sup>-2</sup> Torr   3 · 10 <sup>-2</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
Water vapor capacity 50 Hz	110 g/h
Water vapor capacity 60 Hz	170 g/h
Water vapor tolerance at 50 Hz	15 hPa   11.25 Torr   15 mbar
Water vapor tolerance at 60 Hz	20 hPa   15 Torr   20 mbar
Weight: with motor	19 kg   41.89 lb

## Order number

Duo 11 M

**PK D59 107**

<b>Accessories</b>	
<b>Cables Mains cables / Power cords</b>	
Mains cable 230 V with safety plug CEE 7, right angle IEC 320/C13 socket, 2 m	<b>PK 050 109</b>
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	<b>PK 050 110</b>
Mains cable 115/230 V without plug, right angle IEC 320/C13 socket, 3 m	<b>PK 050 111</b>
<b>Conversion kit</b>	
Gas ballast valve-conversion kit corrosive version with Hose nozzle	<b>PK 195 666 -U</b>
<b>Monitoring Operations monitoring units</b>	
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	<b>PK 196 146 -T</b>
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	<b>PK 196 147 -T</b>
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	<b>PK 196 148 -T</b>
<b>Protection Condensate separators</b>	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m <sup>3</sup> /h	<b>PK Z10 003</b>
<b>Protection Dust separators/Inlet particle filters</b>	
SAS 16, dust separator, DN 16 ISO-KF, polyester filter	<b>PK Z60 506</b>
<b>Protection Oil mist eliminators</b>	
OME 16 S, oil mist filter for pumping speeds up to 12 m <sup>3</sup> /h	<b>PK Z40 000</b>
OME 16 M, oil mist filter for pumping speeds of up to 12 m <sup>3</sup> /h	<b>PK Z40 003</b>
<b>Protection Oil return units from oil mist eliminators</b>	
Oil return unit from OME 16 S to Duo 1.6/Duo 3/Duo 6/Duo 11/Uno 6	<b>PK 005 986 -T</b>
Oil return unit from OME 16 M to Duo 1.6, 3, 6, 11, Uno 6	<b>PK 006 080 -T</b>
<b>Protection Sorption traps</b>	
ZFO 16, zeolite trap	<b>PK Z70 003</b>
<b>Valves Gas ballast valves, magnetic</b>	
Gas ballast valve with magnet valve, 24 V DC	<b>PK 194 343 -U</b>
<b>Consumables</b>	
P3, mineral oil, 1 l	<b>PK 001 106 -T</b>
P3, mineral oil, 0.5 l	<b>PK 001 136 -T</b>

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