



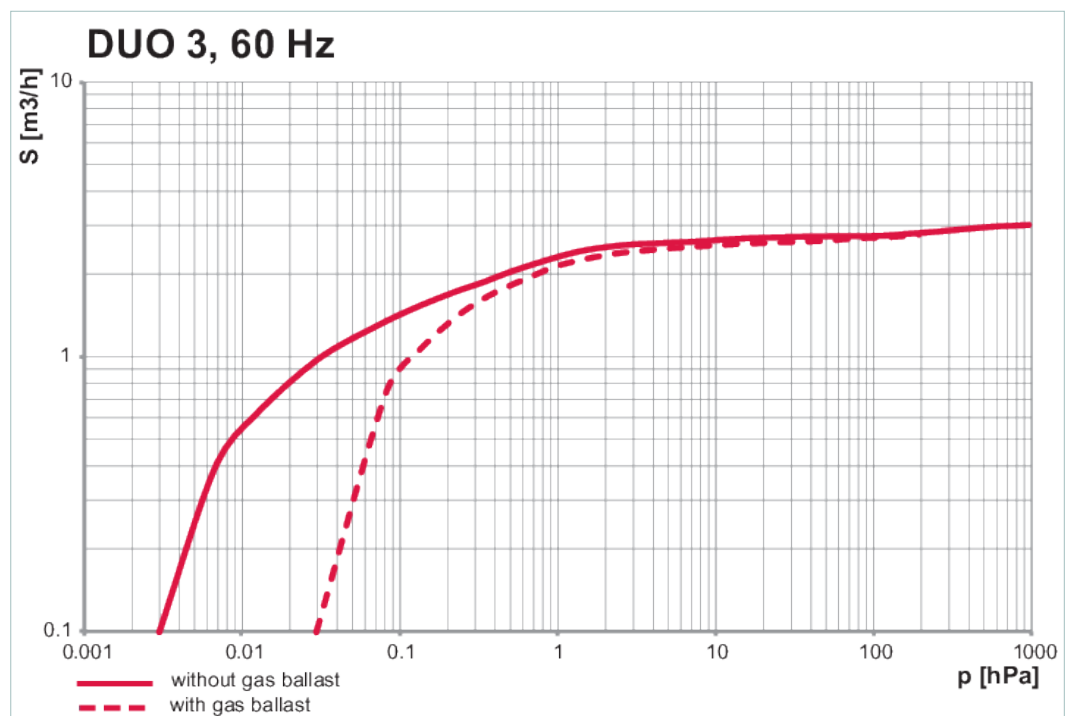
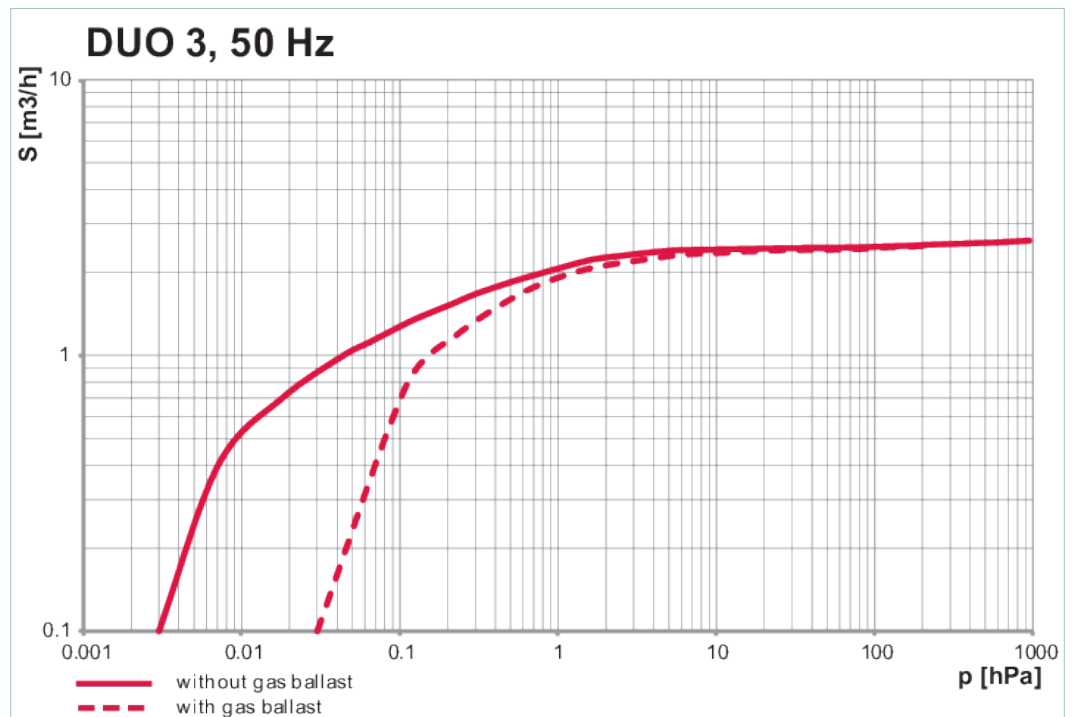
# Duo 3, 1-phase motor, 115/230 V, 50/60 Hz



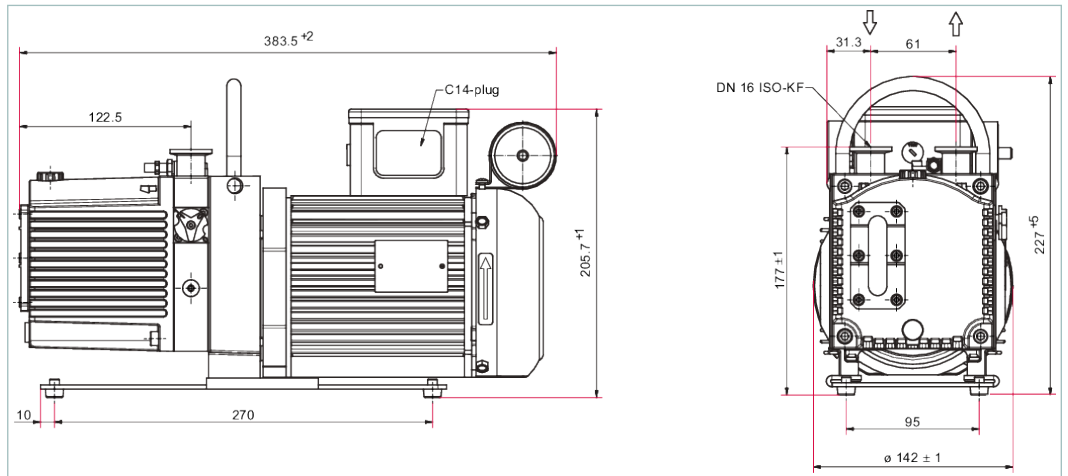
Similar Image

## Duo 3, 1-phase motor, 115/230 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 2.5 m<sup>3</sup>/h at 50 Hz / 2.9 m<sup>3</sup>/h at 60 Hz
- 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 worldwide employment
- Other motor voltages available on request



## Dimensions



Technical Data	Duo 3, 1-phase motor, 115/230 V, 50/60 Hz
Connection flange (in)	DN 16 ISO-KF
Connection flange (out)	DN 16 ISO-KF
Pumping speed at 50 Hz	2.5 m <sup>3</sup> /h   1.47 cfm   41.67 l/min
Pumping speed at 60 Hz	2.9 m <sup>3</sup> /h   1.71 cfm   48.33 l/min
Final pressure	3 · 10 <sup>-3</sup> hPa   2.25 · 10 <sup>-3</sup> Torr   3 · 10 <sup>-3</sup> mbar
Final pressure with gas ballast	3 · 10 <sup>-2</sup> hPa   2.25 · 10 <sup>-2</sup> Torr   3 · 10 <sup>-2</sup> mbar
Exhaust pressure, min.	Atmospheric pressure
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Water vapor capacity 50 Hz	115 g/h
Water vapor capacity 60 Hz	175 g/h
Water vapor tolerance at 50 Hz	65 hPa   48.75 Torr   65 mbar
Water vapor tolerance at 60 Hz	80 hPa   60 Torr   80 mbar
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>
Cooling method	Air (Forced convection)
Motor protection	Bimetal
Motor type	1-phase motor
Ambient temperature	12-40 °C   53.6-104 °F   285-313 K
Continuous gas input temperature, max.	40 °C   104 °F   313 K
Emission sound pressure level without gas ballast at 50 Hz	54 dB(A)
Switch	Yes
Input voltage(s)	115 / 230 V AC (±10 %), 50/60 Hz
Recommended on-site electric fuse protection	16 / 6 A
Mains cable	No, C14-plug inside the terminal box
Gas ballast flow	540 l/h
Gas ballast	Yes
Gas ballast pressure	≤ 1,500 hPa   ≤ 1,125 Torr   ≤ 1,500 mbar
Operating fluid	P3
Operating fluid amount	0.4 l
Leakage 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)	396 x 143 x 209 mm   15.59 x 5.63 x 8.23 inch
Rated power 50 Hz	0.25 kW
Rated power 60 Hz	0.3 kW
Protection degree	IP40
Certification	CE cTUVus certified according to UL / CSA 61010-1

<b>Technical Data</b>	<b>Duo 3, 1-phase motor, 115/230 V, 50/60 Hz</b>
Weight	15 kg   33.07 lb

<b>Order number</b>	
Duo 3	<b>PK D77 711</b>

<b>Accessories</b>	
<b>Cables Mains cables / Power cords</b>	
Mains cable 230 V with safety plug, right angle IEC 320/C13 socket, 2 m	PK 050 109
Mains cable, 115 V, with NEMA plug to Euro C13 socket (angled), 2 m	PK 050 110
Mains cable 115/230 V without plug, rubber connector (right angle), 3 m	PK 050 111
<b>Connections Connection kits for mounting of pumps</b>	
Connection kit for mounting of pumps, DN 16 ISO-KF	120SWS016-1000
<b>Flanges/Ports Blank flanges</b>	
Blank flange gas ballast valve with O-ring and screws	PK 007 002 -T
<b>ISO-KF, welded bellows sealed</b>	
HV angle valve, DN 16 ISO-KF, manually operated, 304/FKM, "A"-dim. 40 mm	ESV-S02100
<b>Monitoring Operations monitoring units</b>	
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 146 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 147 -T
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 148 -T
<b>Monitoring Pressure Sensors</b>	
OmniControl 200 with TPR 270	PT 440 950 -T
<b>Protection Condensate separators</b>	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m <sup>3</sup> /h	PK Z10 003
<b>Protection Dust separators/Inlet particle filters</b>	
SAS 16, dust separator, DN 16 ISO-KF	PK Z60 506
<b>Protection Oil mist eliminators</b>	
OME 16 S, oil mist separator for pumping speeds up to 12 m <sup>3</sup> /h	PK Z40 000
OME 16 M, oil mist separator for pumping speeds up to 12 m <sup>3</sup> /h	PK Z40 003
<b>Protection Oil return units from oil mist eliminators</b>	
Oil return unit from OME 16 S/16 C to Duo 1.6/Duo 3/Duo 6/Duo 11/Uno 6	PK 005 986 -T
Oil return unit from OME 16 M to Duo 1.6, 3, 6, 11, Uno 6	PK 006 080 -T
<b>Protection Sorption traps</b>	
ZFO 16, zeolite trap	PK Z70 003
<b>Valves Gas ballast valves, magnetic</b>	
Gas ballast valve with solenoid valve 24 V DC	PK 194 343 -U
<b>Valves Gas ballast valves, manual</b>	
Gas ballast valve with dosing spindle and inert gas connection	PK 195 666 -U
<b>Valves Isolation valves</b>	
AVC 016 PA, angle valve, electro-pneumatic, with PI, with PV, PV 24 V DC	PF A38 204
<b>Consumables</b>	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 0.5 l	PK 001 136 -T

## **VACUUM SOLUTIONS FROM A SINGLE SOURCE**

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, technological perfection, competent advice and reliable service.

## **COMPLETE RANGE OF PRODUCTS**

From a single component to complex systems:

We are the only supplier of vacuum technology that provides a complete product portfolio.

## **COMPETENCE IN THEORY AND PRACTICE**

Benefit from our know-how and our portfolio of training opportunities!

We support you with your plant layout and provide first-class on-site service worldwide.

Are you looking for a  
perfect vacuum solution?  
Please contact us:

**Pfeiffer Vacuum GmbH**  
Headquarters · Germany  
T +49 6441 802-0  
info@pfeiffer-vacuum.de

[www.pfeiffer-vacuum.com](http://www.pfeiffer-vacuum.com)

All data subject to change without prior notice.

**PFEIFFER**  **VACUUM**