



Duo 1.6/M

Dual-stage rotary vane pumps with a pumping speed of 1.5 m³/h:

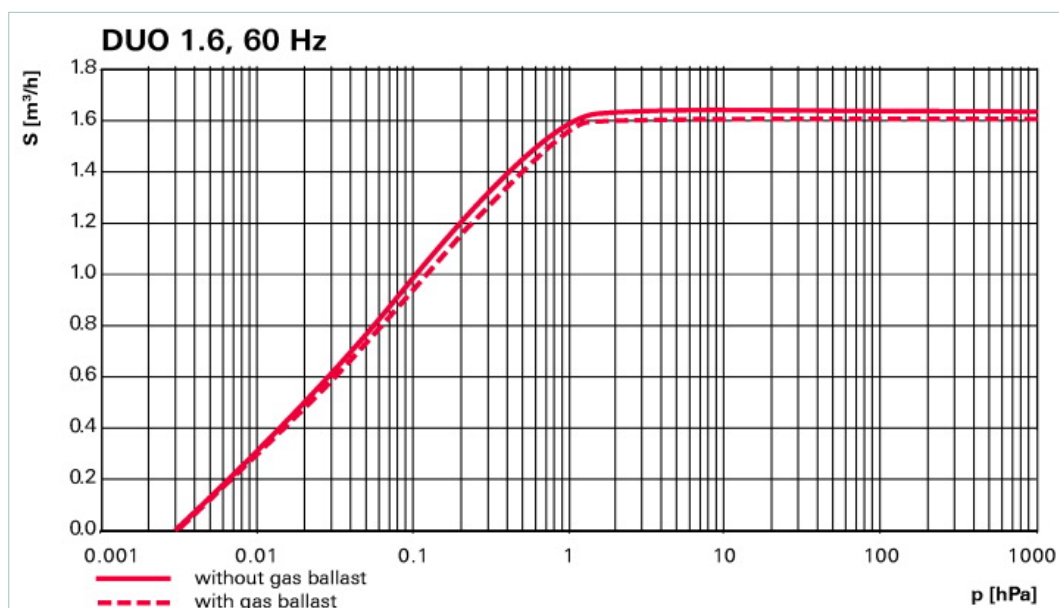
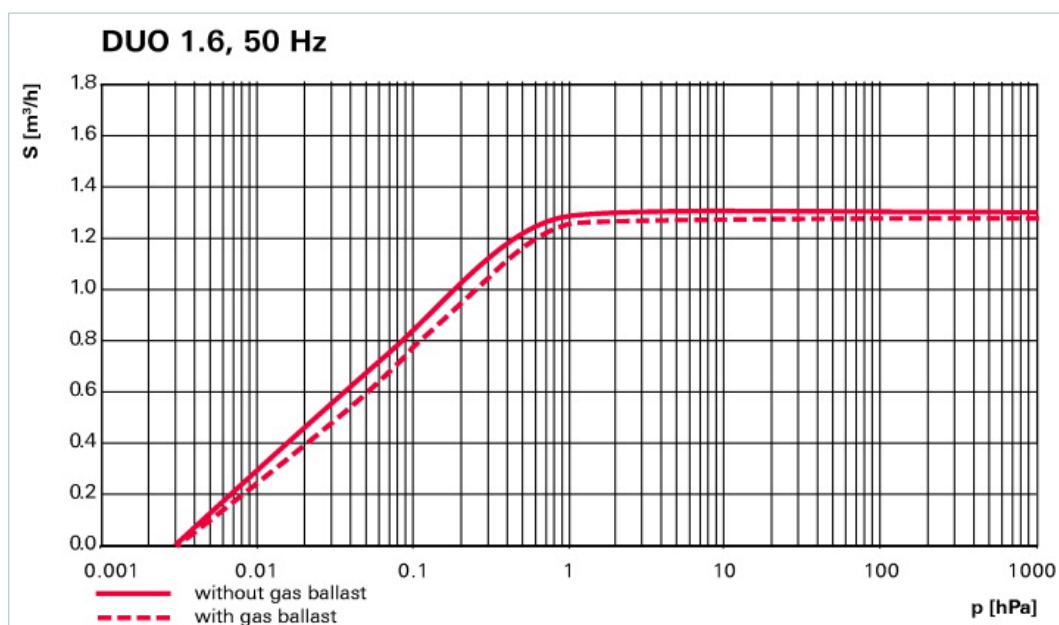


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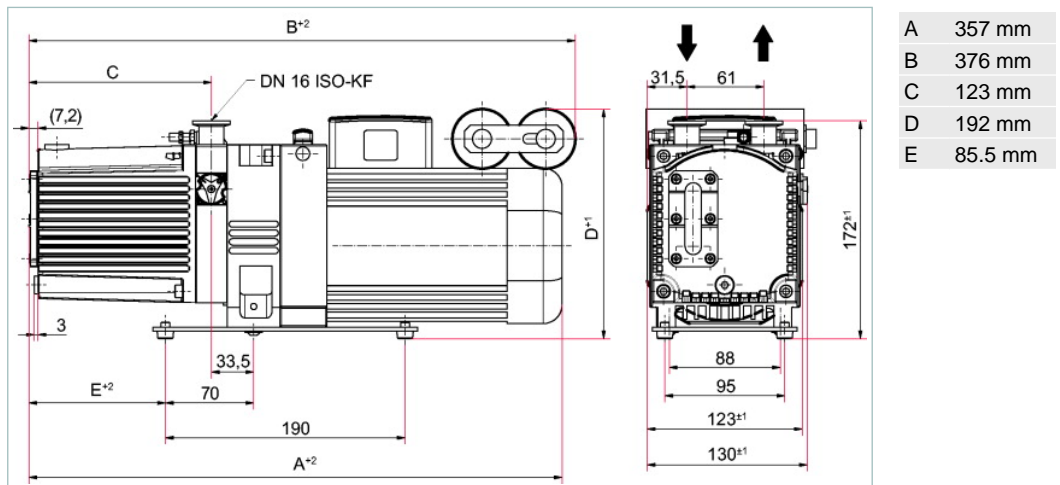
Duo 1.6 M, 1-phase motor, 105 V, 50 Hz; 115-125 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 1.25 m³/h at 50 Hz / 1.50 m³/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
- 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

M = Magnetically coupled



Dimensions



Technical Data	Duo 1.6 M, 1-phase motor, 105 V, 50 Hz; 115-125 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	≤ 48 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 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	100-105 V
Mains requirement: voltage 60 Hz	110-130 V
Motor version	1-phase Motor
Operating fluid	P3
Operating fluid filling	0.4 l
Protection category	IP40
Pumping speed at 50 Hz	1.25 m ³ /h
Pumping speed at 60 Hz	1.50 m ³ /h
Rated power 50 Hz	0.075 kW
Rated power 60 Hz	0.090 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Switch	yes
Ultimate pressure with gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Weight	10.5 kg 23.15 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 1.6/M

PK D56 107

Accessories	
Accessories	
Gas ballast valve - corrosive gas version	PK 194 144 -U
Gas ballast valve with magnet valve, 24 V DC	PK 194 343 -U
Oil return unit from ONF 16 M to Duo 1.6, 3, 6, 11	PK 006 080 -T
Oil return unit from ONF 16 S to Duo 1.6 / Duo 3	PK 005 986 -T
OME 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 000
Accessories UnoLine	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m ³ /h	PK Z10 003
Mains cable 115 / 230 V without plug, right angle IEC 320/C13 socket, 3 m	PK 050 111
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	PK 050 110
Mains cable 230 V with safety plug CEE 7, right angle IEC 320/C13 socket, 2 m	PK 050 109
OME 16 M, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 003
ONF 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 001
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 16, dust separator, DN 16 ISO-KF, polyester filter	PK Z60 506
ZFO 16, zeolite trap	PK Z70 003
Consumables	
P3, mineral oil, 0.5 l	PK 001 136 -T
P3, mineral oil, 1 l	PK 001 106 -T

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Duo 3/M/DC

Dual-stage rotary vane pumps with a pumping speed up to 2.9 m³/h:

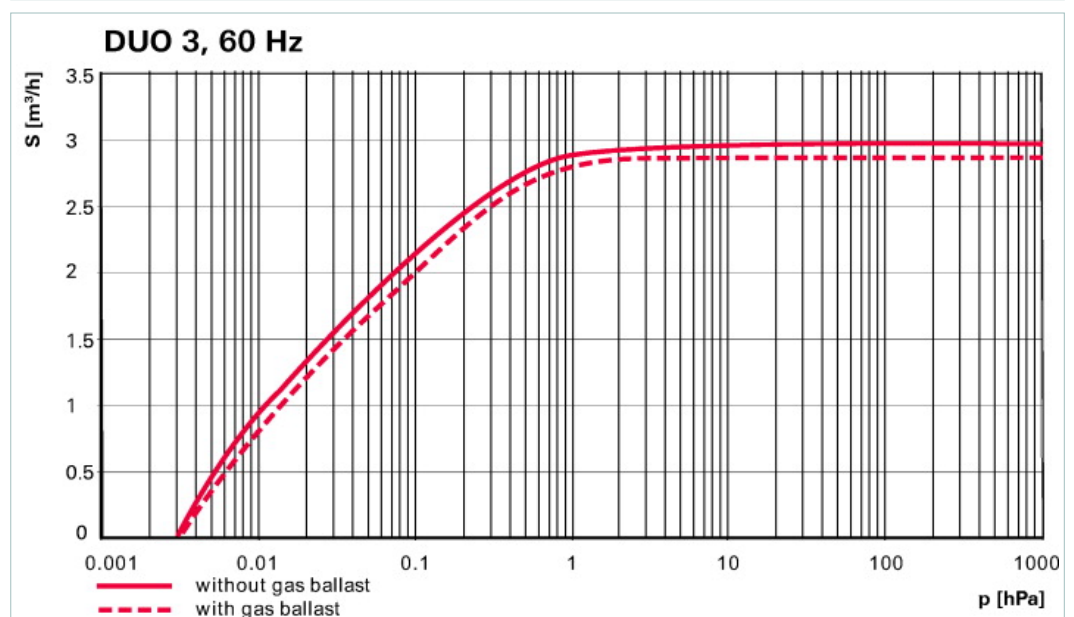
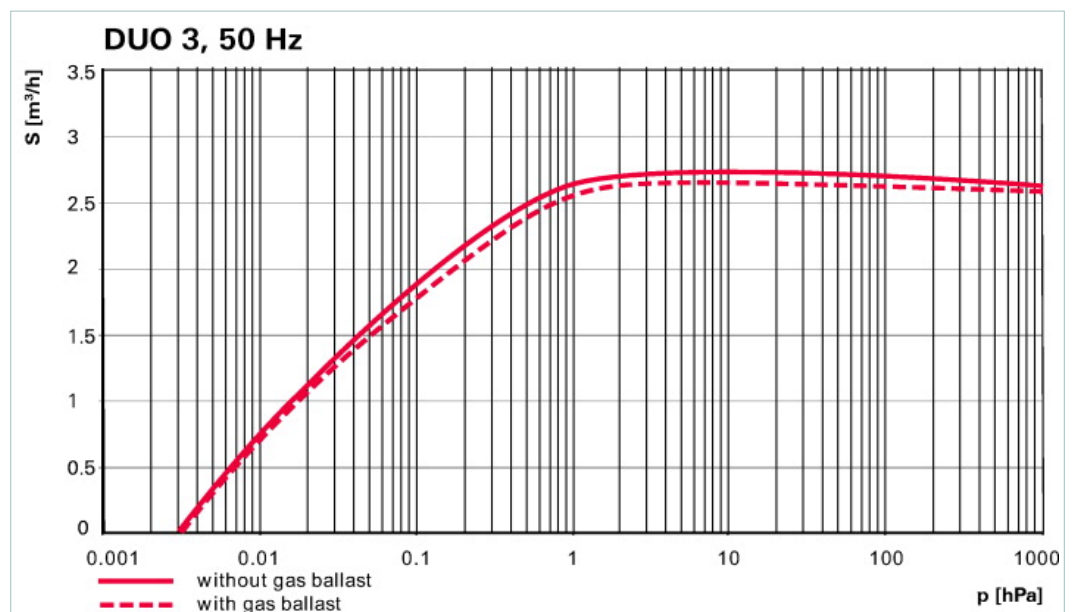


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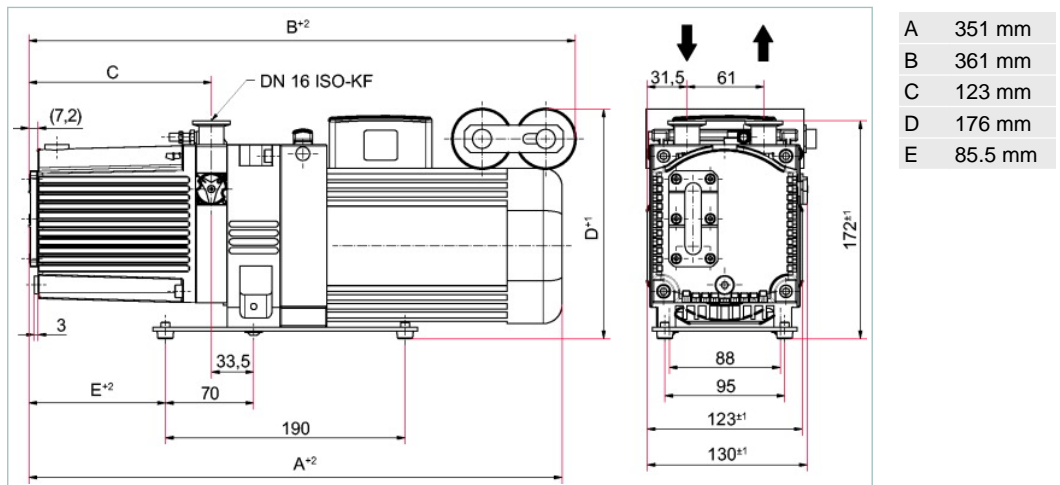
Duo 3 M, 1-phase motor, 115 V, 50/60 Hz; 230 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 2.5 m³/h at 50 Hz / 2.9 m³/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
- 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

M = Magnetically coupled



Dimensions



Technical Data	Duo 3 M, 1-phase motor, 115 V, 50/60 Hz; 230 V, 50/60 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	≤ 53 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 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage (selectable)	230 V
Mains requirement: voltage 50 Hz	115 V
Mains requirement: voltage 60 Hz	115 V
Motor version	1-phase Motor
Operating fluid	P3
Operating fluid filling	0.4 l
Protection category	IP 40
Pumping speed at 50 Hz	2.5 m ³ /h
Pumping speed at 60 Hz	2.9 m ³ /h
Rated power 50 Hz	0.15 kW
Rated power 60 Hz	0.18 kW
Rotation speed at 50 Hz	3000 min ⁻¹
Rotation speed at 60 Hz	3600 min ⁻¹
Switch	yes
Ultimate pressure with gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Weight	12.2 kg 26.9 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 3/M/DC

PK D57 111

Accessories	
Accessories	
Gas ballast valve - corrosive gas version	PK 194 144 -U
Gas ballast valve with magnet valve, 24 V DC	PK 194 343 -U
Oil return unit from ONF 16 M to Duo 1.6, 3, 6, 11	PK 006 080 -T
Oil return unit from ONF 16 S to Duo 1.6 / Duo 3	PK 005 986 -T
OME 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 000
Accessories UnoLine	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m ³ /h	PK Z10 003
Mains cable 115 / 230 V without plug, right angle IEC 320/C13 socket, 3 m	PK 050 111
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	PK 050 110
Mains cable 230 V with safety plug CEE 7, right angle IEC 320/C13 socket, 2 m	PK 050 109
OME 16 M, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 003
ONF 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 001
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 16, dust separator, DN 16 ISO-KF, polyester filter	PK Z60 506
ZFO 16, zeolite trap	PK Z70 003
Consumables	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 0.5 l	PK 001 136 -T

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Duo 6/M

Dual-stage rotary vane pumps with a pumping speed up to 6 m³/h:

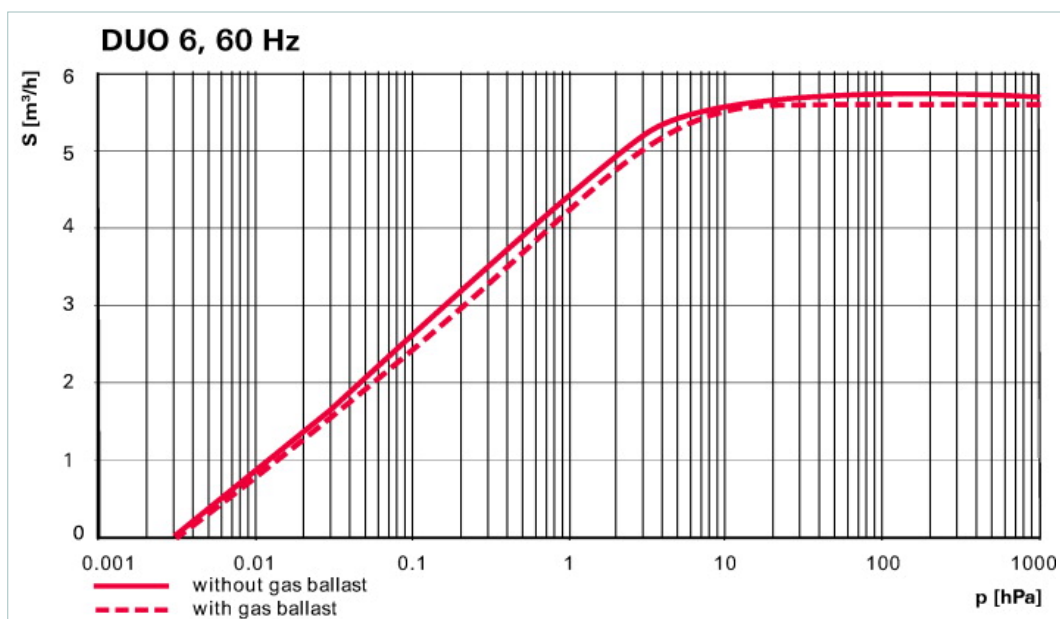
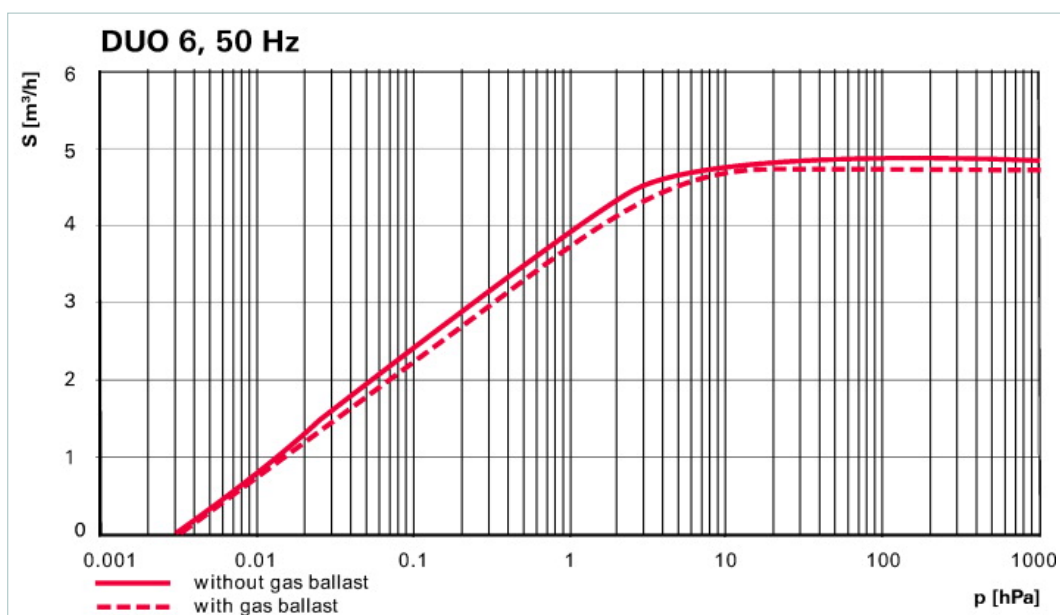


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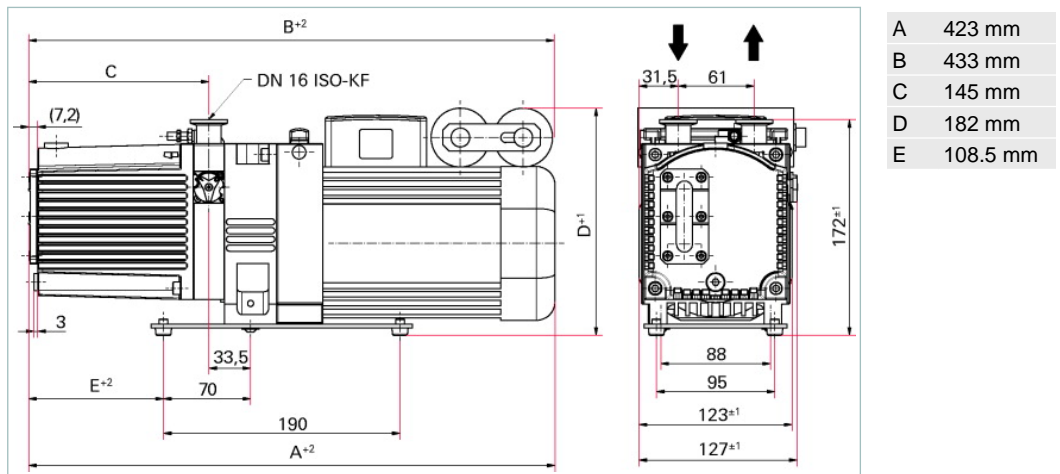
Duo 6 M, 1-phase motor, 100-110 V, 50 Hz; 100-120 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 5 m³/h at 50 Hz / 6 m³/h at 60 Hz
- With single-phase motor with C14 connector plug inside the terminal box
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- With magnetic coupling
- Other motor voltages available on request

M = Magnetically coupled



Dimensions



Technical Data

**Duo 6 M, 1-phase motor, 100-110 V, 50 Hz;
100-120 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	51 ± 2 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	$\leq 1 \cdot 10^{-5} \text{ Pa m}^3/\text{s}$ $\leq 7.5 \cdot 10^{-5} \text{ Torr l/s}$ $\leq 1 \cdot 10^{-4} \text{ mbar l/s}$
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	100-110 V
Mains requirement: voltage 60 Hz	100-120 V
Motor version	1-phase Motor
Operating fluid	P3
Operating fluid filling	0.5 l
Protection category	IP 40
Pumping speed at 50 Hz	5 m ³ /h
Pumping speed at 60 Hz	6 m ³ /h
Rated power 50 Hz	0.2 kW
Rated power 60 Hz	0.24 kW
Rotation speed at 50 Hz	3000 min ⁻¹
Rotation speed at 60 Hz	3600 min ⁻¹
Switch	yes
Ultimate pressure with gas ballast	$\leq 3 \cdot 10^{-2} \text{ hPa}$ $\leq 2.25 \cdot 10^{-2} \text{ Torr}$ $\leq 3 \cdot 10^{-2} \text{ mbar}$
Ultimate pressure without gas ballast	$\leq 3 \cdot 10^{-3} \text{ hPa}$ $\leq 2.25 \cdot 10^{-3} \text{ Torr}$ $\leq 3 \cdot 10^{-3} \text{ mbar}$
Weight	17.5 kg 38.58 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 6/M

PK D58 107

Accessories	
Accessories	
Gas ballast valve - corrosive gas version	PK 194 144 -U
Gas ballast valve with magnet valve, 24 V DC	PK 194 343 -U
Oil return unit from ONF 16 M to Duo 1.6, 3, 6, 11	PK 006 080 -T
Oil return unit from ONF 16 S to Duo 1.6 / Duo 3	PK 005 986 -T
OME 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 000
Accessories UnoLine	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m ³ /h	PK Z10 003
Mains cable 115 / 230 V without plug, right angle IEC 320/C13 socket, 3 m	PK 050 111
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	PK 050 110
Mains cable 230 V with safety plug CEE 7, right angle IEC 320/C13 socket, 2 m	PK 050 109
OME 16 M, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 003
ONF 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 001
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 16, dust separator, DN 16 ISO-KF, polyester filter	PK Z60 506
ZFO 16, zeolite trap	PK Z70 003
Consumables	
P3, mineral oil, 0.5 l	PK 001 136 -T
P3, mineral oil, 1 l	PK 001 106 -T

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Duo 10 M

Dual-stage rotary vane pumps with a pumping speed of up to 12 m³/h:



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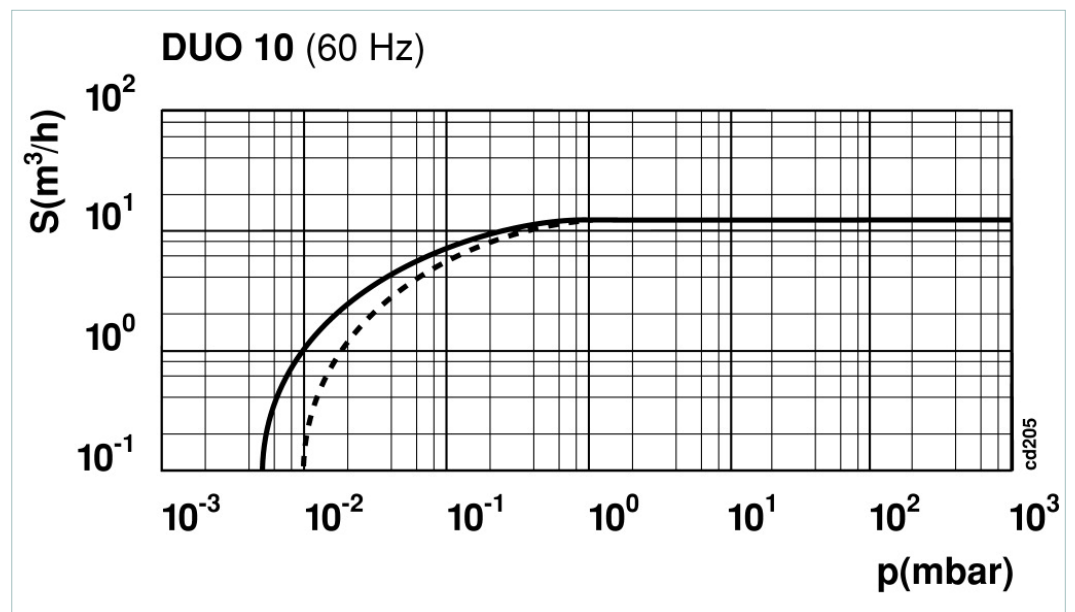
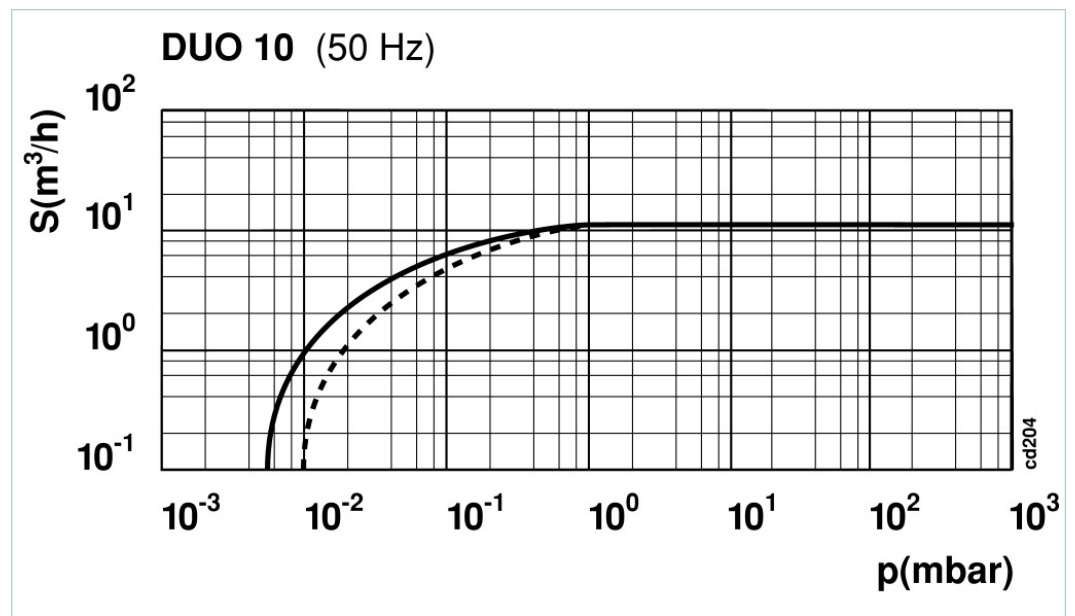
Duo 10 M, 3-phase motor, 3TF, 220-240/380-420 V, 50 Hz; 250-277/440-480 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of up to 12 m³/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
- Magnetically coupled
- Special feature: Various motor voltages for worldwide employment

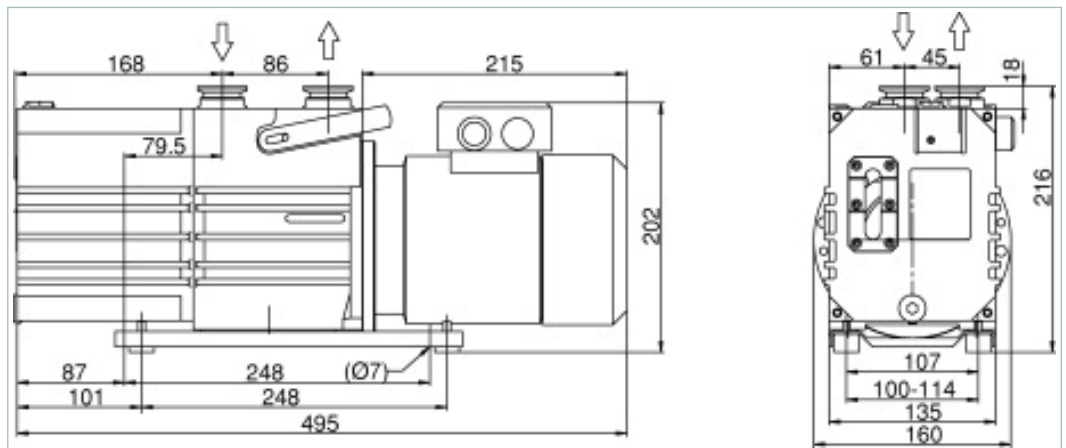
M = Magnetically coupled

MC = Corrosive gas version, magnetically coupled

TF = Temperature sensor



Dimensions



Technical Data	Duo 10 M, 3-phase motor, 3TF, 220-240/380-420 V, 50 Hz; 250-277/440-480 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	≤ 55 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 25 ISO-KF
Flange (out)	DN 25 ISO-KF
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	220-240/380-420 (± 5 %) V
Mains requirement: voltage 60 Hz	250-277/440-480 (± 5 %) V
Motor version	3-phase Motor
Operating fluid	P3
Operating fluid filling	1 l
Protection category	IP 54
Pumping speed at 50 Hz	10 m ³ /h
Pumping speed at 60 Hz	12 m ³ /h
Rated power 50 Hz	0.37 kW
Rated power 60 Hz	0.44 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Ultimate pressure with gas ballast	6 · 10 ⁻³ hPa 4.5 · 10 ⁻³ Torr 6 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Weight	24 kg 52.91 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 10 M

PK D62 105

Accessories	
Accessories	
FAK 025, activated carbon filter	PK Z30 006
KAS 25, condensate separator for pumping speeds up to 12 m ³ /h	PK Z10 032
OME 25 M, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 157
ONF 25 S, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 004
ZFO 025, zeolite trap	PK Z70 006
Accessories UnoLine	
KLF 025, cold trap	PK Z80 006
Oil pressure switch for Duo 5/10/20 M and Penta 20/35	PK 196 484 -T
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 25, dust separator, DN 25 ISO-KF, polyester filter	PK Z60 508
URB 025, catalytic trap, 115 V	PT U10 761
URB 025, catalytic trap, 230 V	PT U10 760
Accessories UnoLine Plus	
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
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

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Duo 11/M

Dual-stage rotary vane pumps with a pumping speed up to 10.5
 m^3/h :

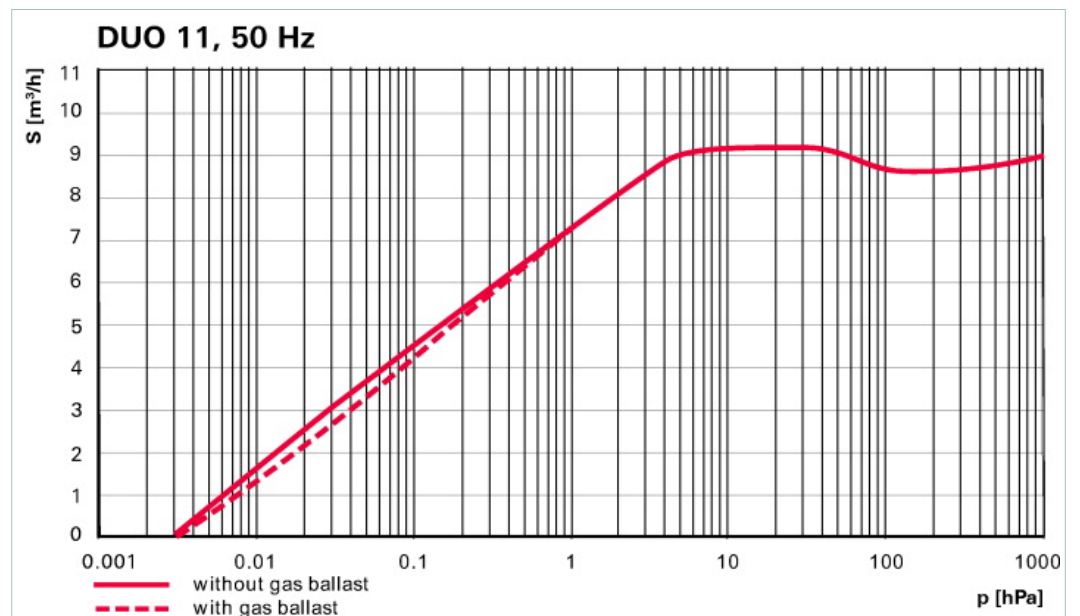
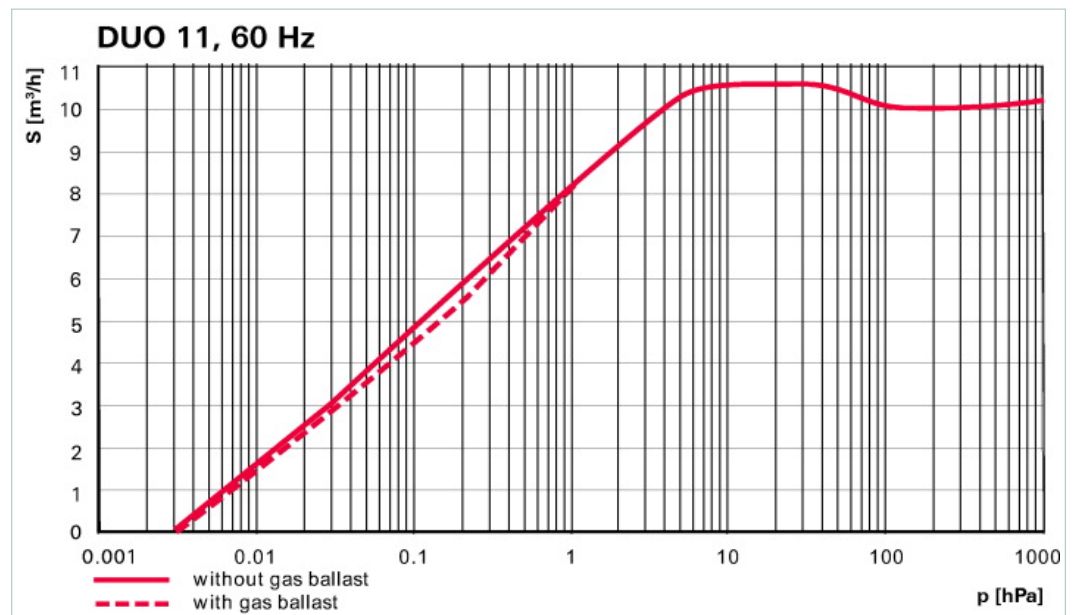


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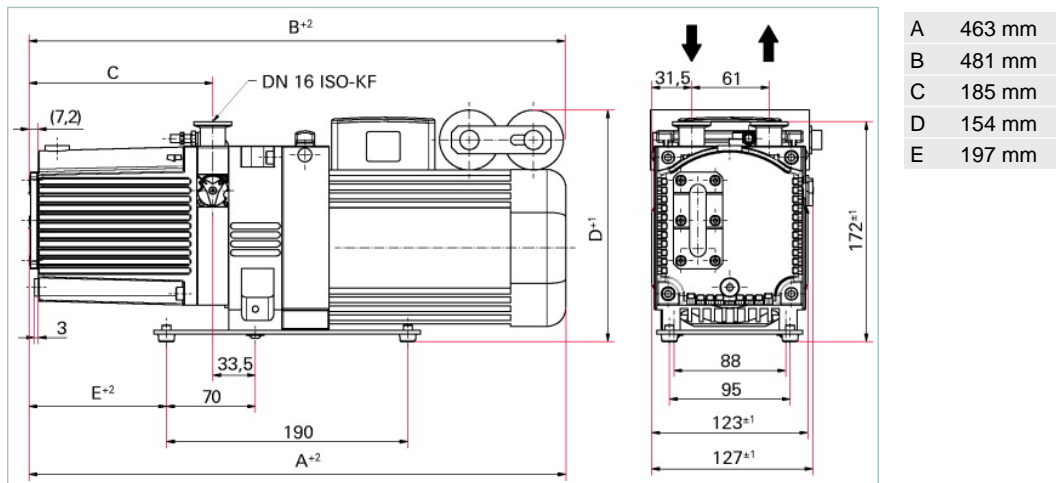
Duo 11 M, 1-phase motor, 100-127 V, 50/60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed of 9 m³/h at 50 Hz / 10.5 m³/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
- 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

M = Magnetically coupled



Dimensions



Technical Data	Duo 11 M, 1-phase motor, 100-127 V, 50/60 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	≤ 55 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 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	100-127 V
Mains requirement: voltage 60 Hz	100-127 V
Motor version	1-phase Motor
Operating fluid	P3
Operating fluid filling	0.6 l
Protection category	IP 40
Pumping speed at 50 Hz	9.0 m ³ /h
Pumping speed at 60 Hz	10.5 m ³ /h
Rated power 50 Hz	0.25 kW
Rated power 60 Hz	0.30 kW
Rotation speed at 50 Hz	3000 min ⁻¹
Rotation speed at 60 Hz	3600 min ⁻¹
Switch	yes
Ultimate pressure with gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Weight	19 kg 41.89 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 11/M

PK D59 107

Accessories	
Accessories	
Gas ballast valve - corrosive gas version	PK 194 144 -U
Gas ballast valve with magnet valve, 24 V DC	PK 194 343 -U
Oil return unit from ONF 16 M to Duo 1.6, 3, 6, 11	PK 006 080 -T
Oil return unit from ONF 16 S to Duo 1.6 / Duo 3	PK 005 986 -T
OME 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 000
Accessories UnoLine	
KAS 16, condensate separator for pumping speeds from 1.6 to 12 m ³ /h	PK Z10 003
Mains cable 115 / 230 V without plug, right angle IEC 320/C13 socket, 3 m	PK 050 111
Mains cable 115 V with NEMA-plug, right angle IEC 320/C13 socket, 2 m	PK 050 110
Mains cable 230 V with safety plug CEE 7, right angle IEC 320/C13 socket, 2 m	PK 050 109
OME 16 M, oil mist filter for pumping speeds of up to 12 m ³ /h	PK Z40 003
ONF 16 S, oil mist filter for pumping speeds up to 12 m ³ /h	PK Z40 001
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 16, dust separator, DN 16 ISO-KF, polyester filter	PK Z60 506
ZFO 16, zeolite trap	PK Z70 003
Consumables	
P3, mineral oil, 0.5 l	PK 001 136 -T
P3, mineral oil, 1 l	PK 001 106 -T

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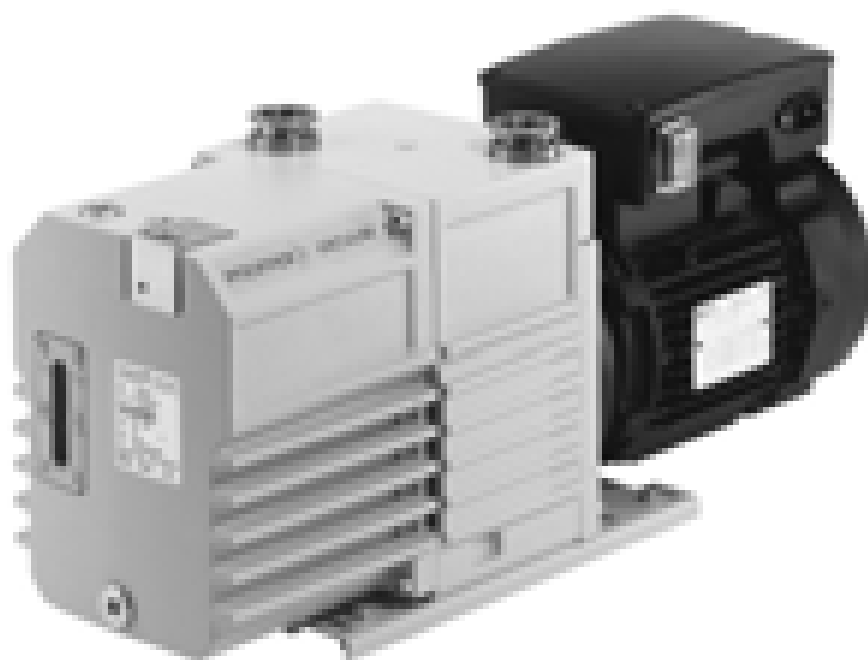
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Duo 20 M

Dual-stage rotary vane pumps with a pumping speed up to 24 m³/h :



Similar Image

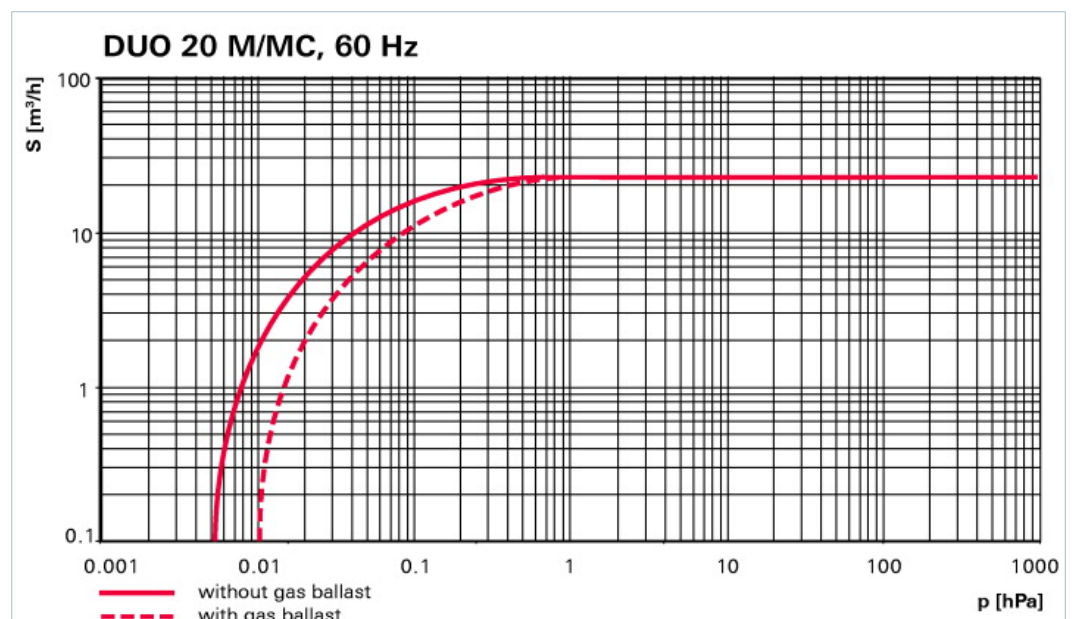
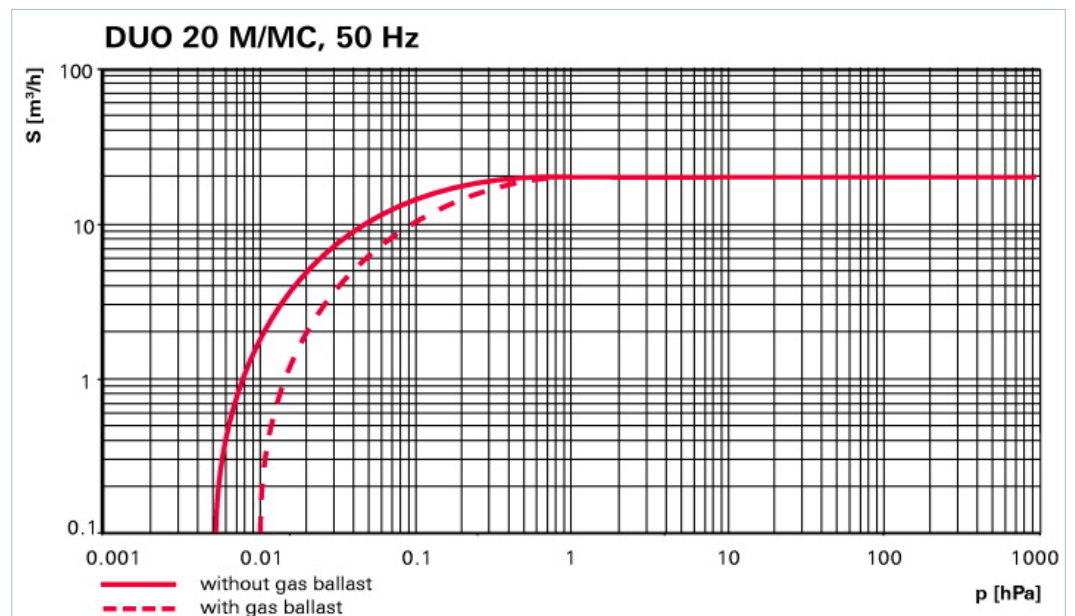
Duo 20 M, 3-phase motor, 3TF, 220-240/380-420 V, 50 Hz; 250-277/440-480 V, 60 Hz

- Dual-stage, high-performance rotary vane pump with a pumping speed up to 24 m³/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
- Magnetically coupled
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

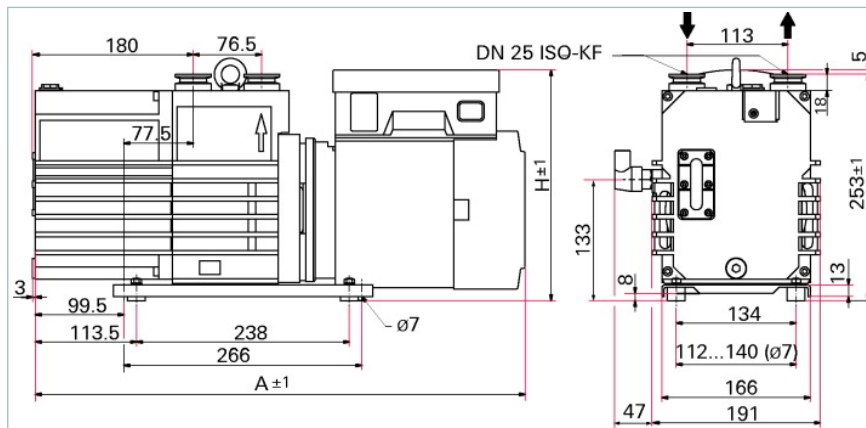
M = Magnetically coupled

MC = Corrosive gas version, magnetically coupled

TF = Temperature sensor



Dimensions



A	542 mm
H	212 mm

Technical Data	Duo 20 M, 3-phase motor, 3TF, 220-240/380-420 V, 50 Hz; 250-277/440-480 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	≤ 55 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 25 ISO-KF
Flange (out)	DN 25 ISO-KF
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Magnetic coupling	yes
Mains requirement: voltage 50 Hz	220-240/380-420 (± 5 %) V
Mains requirement: voltage 60 Hz	250-277/440-480 (± 5 %) V
Motor protection	3TF
Motor version	3-phase Motor
Operating fluid	P3
Operating fluid filling	1.1 l
Protection category	IP55
Pumping speed at 50 Hz	20 m ³ /h
Pumping speed at 60 Hz	24 m ³ /h
Rated power 50 Hz	0.55 kW
Rated power 60 Hz	0.66 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Ultimate pressure with gas ballast	4 · 10 ⁻³ hPa 3 · 10 ⁻³ Torr 4 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	2 · 10 ⁻³ hPa 1.5 · 10 ⁻³ Torr 2 · 10 ⁻³ mbar
Weight	33 kg 72.75 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 20 M

PK D63 105

Accessories	
Accessories	
FAK 025, activated carbon filter	PK Z30 006
Oil return unit from ONF 16 M to Duo 5 M, from ONF 25 M to Duo 10 M, from ONF 25 L to Duo 20 M, standard version	PK 196 172 -T
OME 25 L, oil mist filter for pumping speeds of up to 30 m ³ /h	PK Z40 158
ZFO 025, zeolite trap	PK Z70 006
Accessories UnoLine	
KAS 25 L, condensate separator for pumping speeds up to 35 m ³ /h	PK Z10 033
KLF 025, cold trap	PK Z80 006
Oil pressure switch for Duo 5/10/20 M and Penta 20/35	PK 196 484 -T
Operations monitoring unit 1 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 157 -T
Operations monitoring unit 2 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 142 -T
Operations monitoring unit 3 for Duo 1.6/3/6/11 and Duo 5/10/20 M	PK 196 141 -T
SAS 25, dust separator, DN 25 ISO-KF, polyester filter	PK Z60 508
URB 025, catalytic trap, 115 V	PT U10 761
URB 025, catalytic trap, 230 V	PT U10 760
Accessories UnoLine Plus	
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
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

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Duo 35/M

Dual-stage rotary vane pumps with a pumping speed up to 36 m³/h:



Similar Image

Duo 35, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

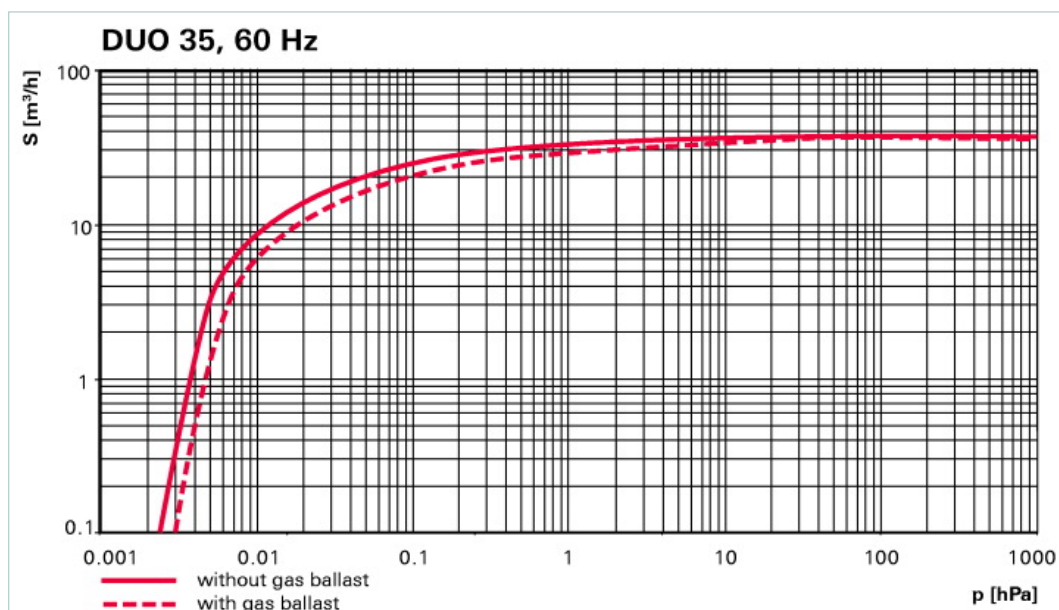
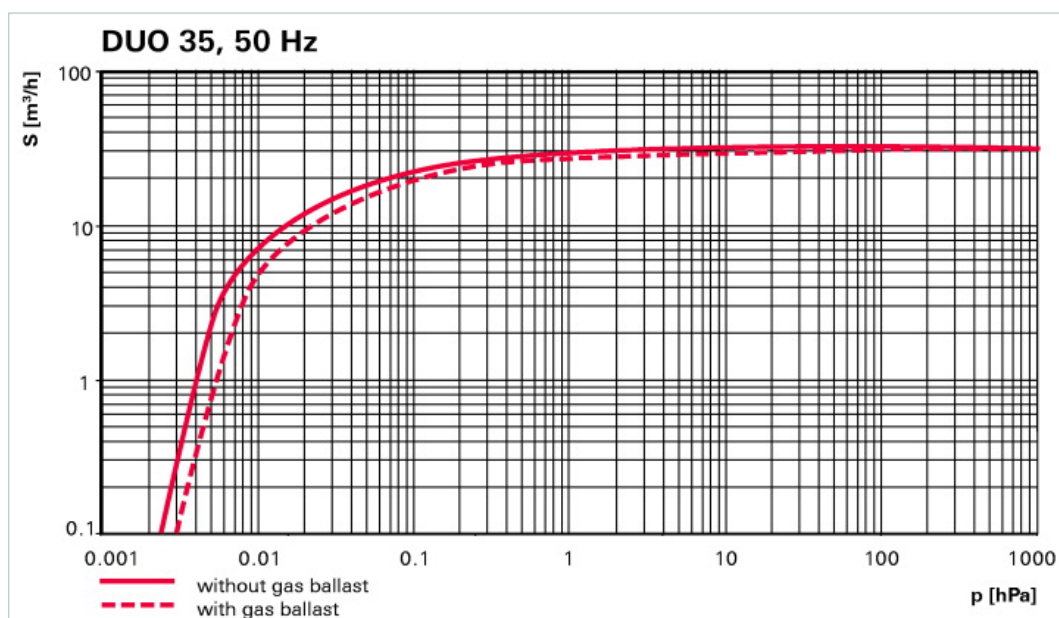
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 36 m³/h
- With 3-phase motor
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

M = Magnetically coupled

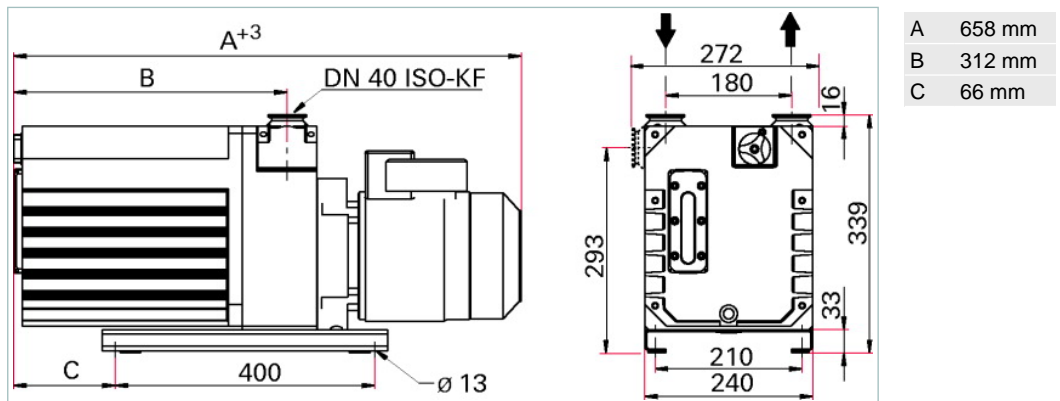
MC = Corrosive gas version with magnetic coupling

TF = Temperature sensor

C = Corrosive gas version



Dimensions



Technical Data	Duo 35, 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
Dimensions (L x W x H)	661 x 240 x 340 mm ³
Emission sound pressure level without gas ballast at 50 Hz	≤ 61 dB (A)
Exhaust pressure, max.	1,500 hPa 1,125 Torr 1,500 mbar
Exhaust pressure, min.	Atmospheric pressure
Flange (in)	DN 40 ISO-KF
Flange (out)	DN 40 ISO-KF
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Mains requirement: voltage (range)	± 5 %
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	3.2 l
Protection category	IP55
Pumping speed at 50 Hz	32 m ³ /h
Pumping speed at 60 Hz	36 m ³ /h
Rated power 50 Hz	1.1 kW
Rated power 60 Hz	1.3 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Temperature: Operating	80 °C 176 °F 353 K
Ultimate pressure with gas ballast	≤ 3 · 10 ⁻³ hPa ≤ 2.25 · 10 ⁻³ Torr ≤ 3 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	≤ 2 · 10 ⁻³ hPa ≤ 1.5 · 10 ⁻³ Torr ≤ 2 · 10 ⁻³ mbar
Weight: with motor	68 kg 149.91 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 35/M

PK D45 602

Accessories	
Accessories	
Adapter UNO/DUO 35/65 for Okta 250 A	PK 223 787 -T
Adapter UNO/DUO 35/65 for Okta 500 A / 1000 A	PK 224 629 -T
Blank flange gas ballast valve with O-ring and screws	PK 223 797 -T
FAK 040, activated carbon filter	PK Z30 008
Gas ballast valve complete in C-version with SAS 16	PK 223 747 -U
Gas ballast valve-conversion kit corrosive version with Hose nozzle	PK 223 713 -U
Gas ballast valve-conversion kit corrosive version with magnetic valve	PK 223 717 -U
KAS 40, condensate separator for pumping speeds up to 120 m ³ /h	PK Z10 008
KLF 040, cold trap	PK Z80 008
OFC 35/65, chemical oil filter	PK Z90 320
OFM 35/65, mechanical oil filter	PK Z90 321
Oil pressure switch for Duo 35/65; Duo 35/65 MC	PK 223 720 -U
Oil pressure switch for Duo 35/65 with OFC/OFM	PK 223 741 -U
Oil return unit from ONF 35/65 to Duo 35/65	PK 005 950 -T
OME 35/65, oil mist filter for Duo 35/65, Duo 35/65 M	PK Z40 150
ONFR 35/65, oil mist filter with oil return to pump for Duo 35/65, Duo 35/65 M	PK Z40 151
Operations monitoring unit 1 for Duo 35/65	PK 223 718 AU
Operations monitoring unit 3 for Duo 35/65, Duo 125/255	PK 223 739 -U
Soft starter 3.6 A	P 4769 001
Soft starter 6.5 A	P 4769 003
Soft starter 9 A	P 4769 004
URB 040, catalytic trap, 115 V	PT U10 261
URB 040, catalytic trap, 230 V	PT U10 260
ZFO 040, zeolite trap	PK Z70 008
Accessories HenaLine	
SAS 40, dust separator, DN 40 ISO-KF, polyester filter	PK Z60 510
Accessories UnoLine Plus	
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
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
D1, synthetic diester based oil, 1 l	PK 005 875 -T
D1, synthetic diester based oil, 5 l	PK 005 876 -T
D1, synthetic diester based oil, 20 l	PK 005 877 -T
F5, Perfluoropolyether, 0.5 l	PK 001 851 -T
F5, Perfluoropolyether, 1 l	PK 001 852 -T
F5, Perfluoropolyether, 5 l	PK 001 853 -T

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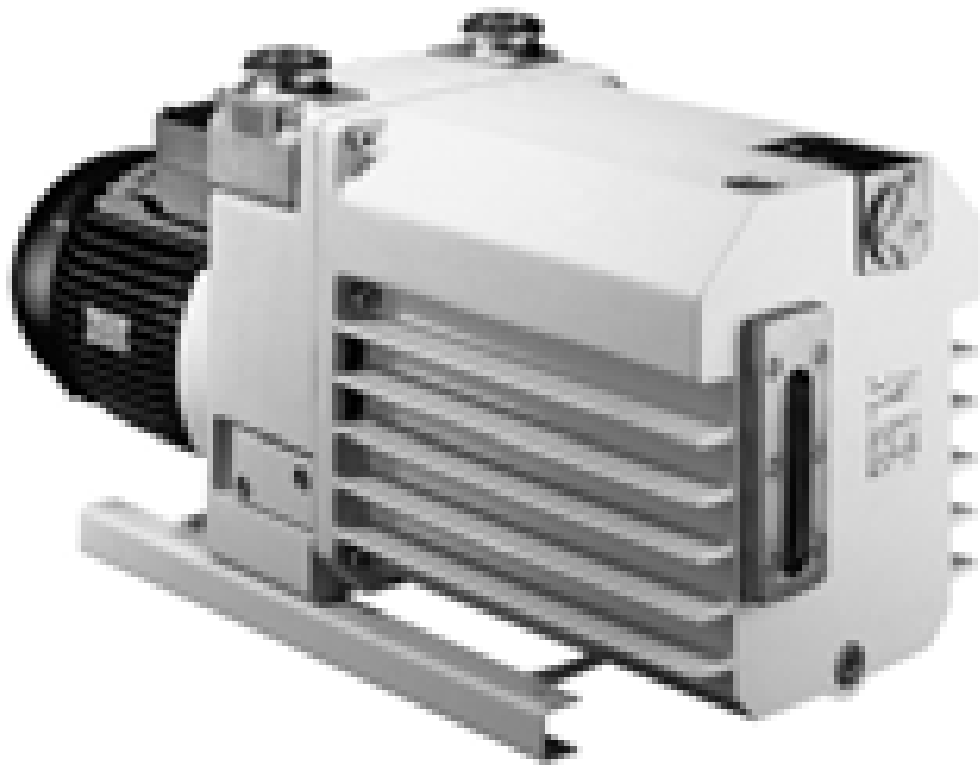
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Duo 65/M

Dual-stage rotary vane pumps with a pumping speed up to 70 m³/h:



Similar Image

Duo 65, 3-phase motor, 3TF, 230/400 V, 50 Hz; 265/460 V, 60 Hz

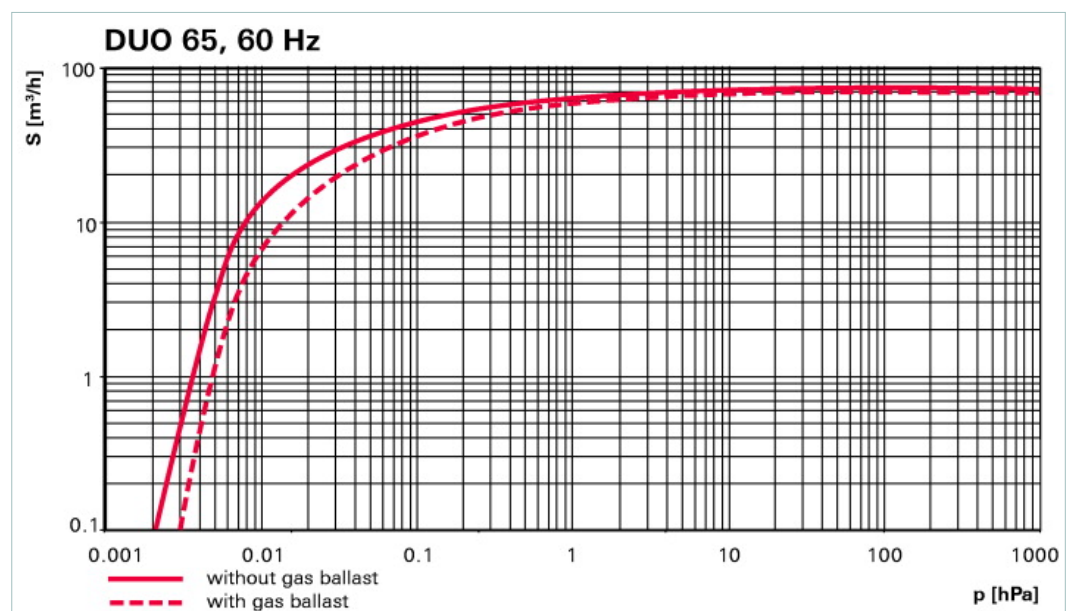
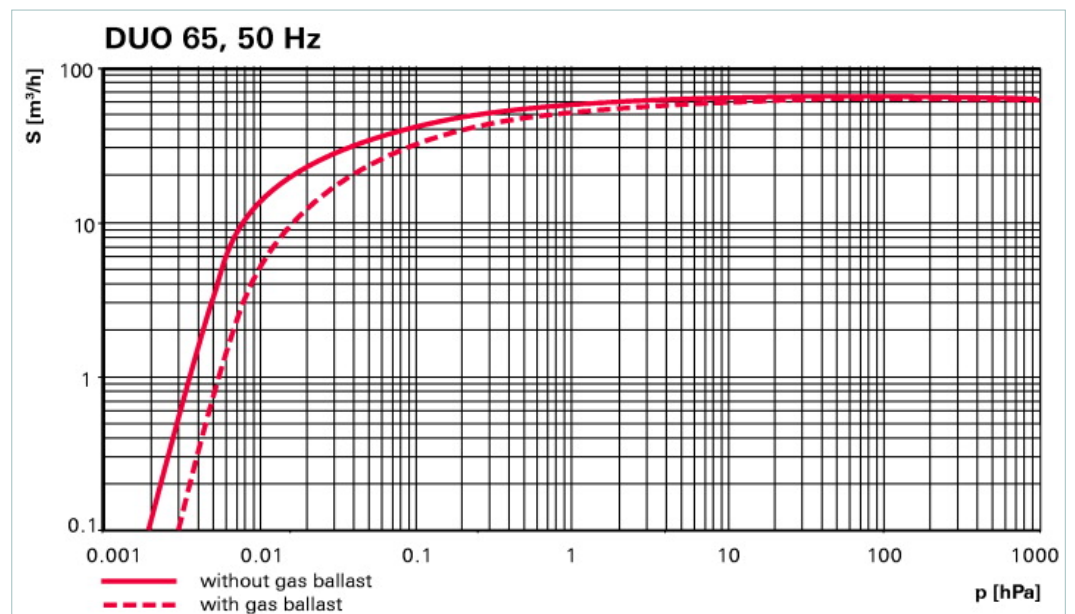
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 70 m³/h
- With 3-phase motor
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment

M = Magnetically coupled

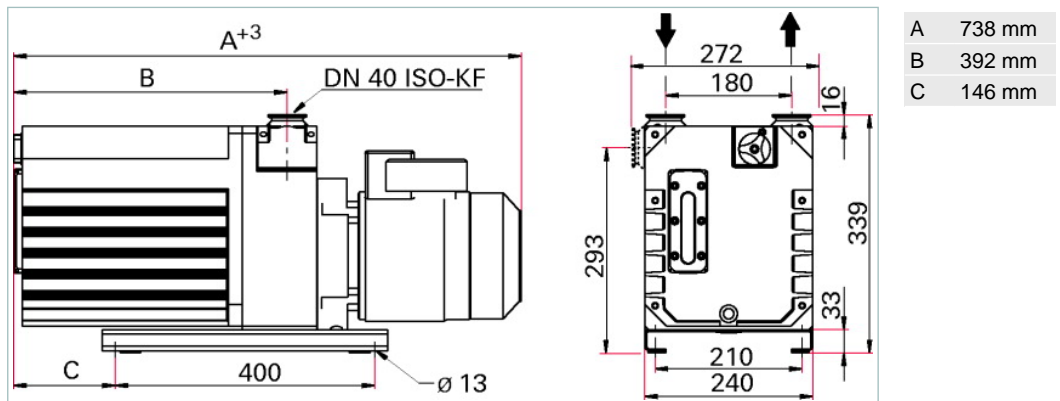
MC = Corrosive gas version, magnetically coupled

TF = Temperature sensor

C = Corrosive gas version



Dimensions



Technical Data	Duo 65, 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
Dimensions (L x W x H)	741 x 240 x 340 mm ³
Emission sound pressure level without gas ballast at 50 Hz	≤ 61 dB (A)
Exhaust pressure, max.	1,500 hPa 1,125 Torr 1,500 mbar
Exhaust pressure, min.	Atmospheric pressure hPa
Flange (in)	DN 40 ISO-KF
Flange (out)	DN 40 ISO-KF
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ mbar l/s
Mains requirement: voltage (range)	± 5 %
Mains requirement: voltage 50 Hz	230/400 V
Mains requirement: voltage 60 Hz	265/460 V
Motor protection	3TF
Operating fluid	P3
Operating fluid filling	4.2 l
Protection category	IP55
Pumping speed at 50 Hz	62 m ³ /h
Pumping speed at 60 Hz	70 m ³ /h
Rated power 50 Hz	1.5 kW
Rated power 60 Hz	1.8 kW
Rotation speed at 50 Hz	1500 min ⁻¹
Rotation speed at 60 Hz	1800 min ⁻¹
Ultimate pressure with gas ballast	≤ 3 · 10 ⁻³ hPa ≤ 2.25 · 10 ⁻³ Torr ≤ 3 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	≤ 2 · 10 ⁻³ hPa ≤ 1.5 · 10 ⁻³ Torr ≤ 2 · 10 ⁻³ mbar
Weight: with motor	75 kg 165.34 lb

Typical ultimate pressure according to PNEUROP

Order number

Duo 65/M

PK D46 602

Accessories	
Accessories	
Adapter UNO/DUO 35/65 for Okta 250 A	PK 223 787 -T
Adapter UNO/DUO 35/65 for Okta 500 A / 1000 A	PK 224 629 -T
Blank flange gas ballast valve with O-ring and screws	PK 223 797 -T
FAK 040, activated carbon filter	PK Z30 008
Gas ballast valve complete in C-version with SAS 16	PK 223 747 -U
Gas ballast valve-conversion kit corrosive version with Hose nozzle	PK 223 713 -U
Gas ballast valve-conversion kit corrosive version with magnetic valve	PK 223 717 -U
KAS 40, condensate separator for pumping speeds up to 120 m ³ /h	PK Z10 008
KLF 040, cold trap	PK Z80 008
OFC 35/65, chemical oil filter	PK Z90 320
OFM 35/65, mechanical oil filter	PK Z90 321
Oil pressure switch for Duo 35/65; Duo 35/65 MC	PK 223 720 -U
Oil pressure switch for Duo 35/65 with OFC/OFM	PK 223 741 -U
Oil return unit from ONF 35/65 to Duo 35/65	PK 005 950 -T
OME 35/65, oil mist filter for Duo 35/65, Duo 35/65 M	PK Z40 150
ONFR 35/65, oil mist filter with oil return to pump for Duo 35/65, Duo 35/65 M	PK Z40 151
Operations monitoring unit 1 for Duo 35/65	PK 223 718 AU
Operations monitoring unit 3 for Duo 35/65, Duo 125/255	PK 223 739 -U
Soft starter 3.6 A	P 4769 001
Soft starter 6.5 A	P 4769 003
Soft starter 9 A	P 4769 004
URB 040, catalytic trap, 115 V	PT U10 261
URB 040, catalytic trap, 230 V	PT U10 260
ZFO 040, zeolite trap	PK Z70 008
Accessories HenaLine	
SAS 40, dust separator, DN 40 ISO-KF, polyester filter	PK Z60 510
Accessories UnoLine Plus	
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
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
D1, synthetic diester based oil, 1 l	PK 005 875 -T
D1, synthetic diester based oil, 5 l	PK 005 876 -T
D1, synthetic diester based oil, 20 l	PK 005 877 -T
F5, Perfluoropolyether, 0.5 l	PK 001 851 -T
F5, Perfluoropolyether, 1 l	PK 001 852 -T
F5, Perfluoropolyether, 5 l	PK 001 853 -T

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Duo 125/M

Dual-stage rotary vane pumps with a pumping speed up to 135 m³/h:



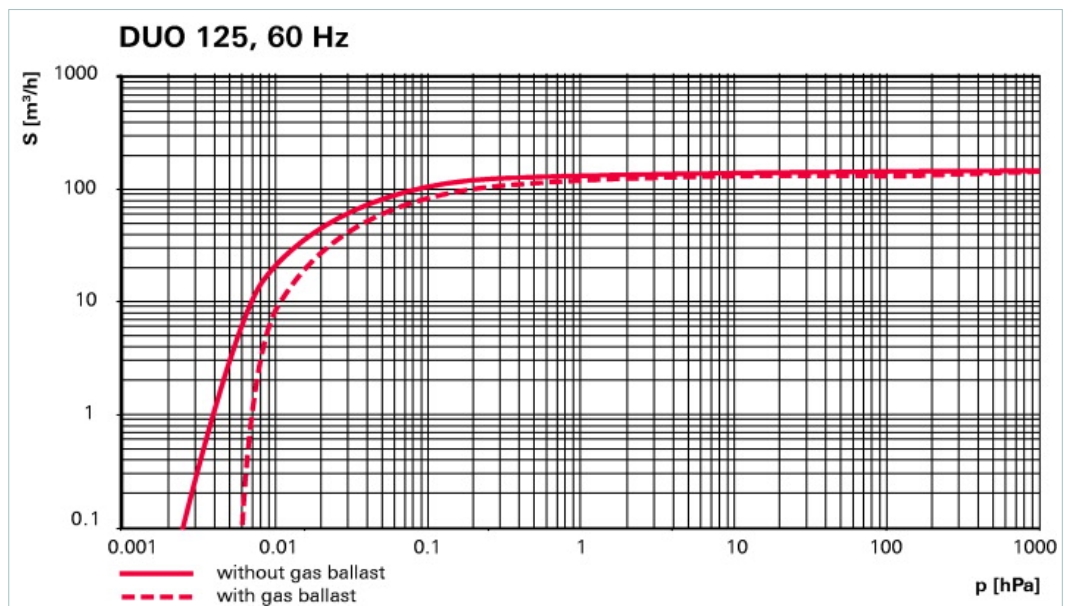
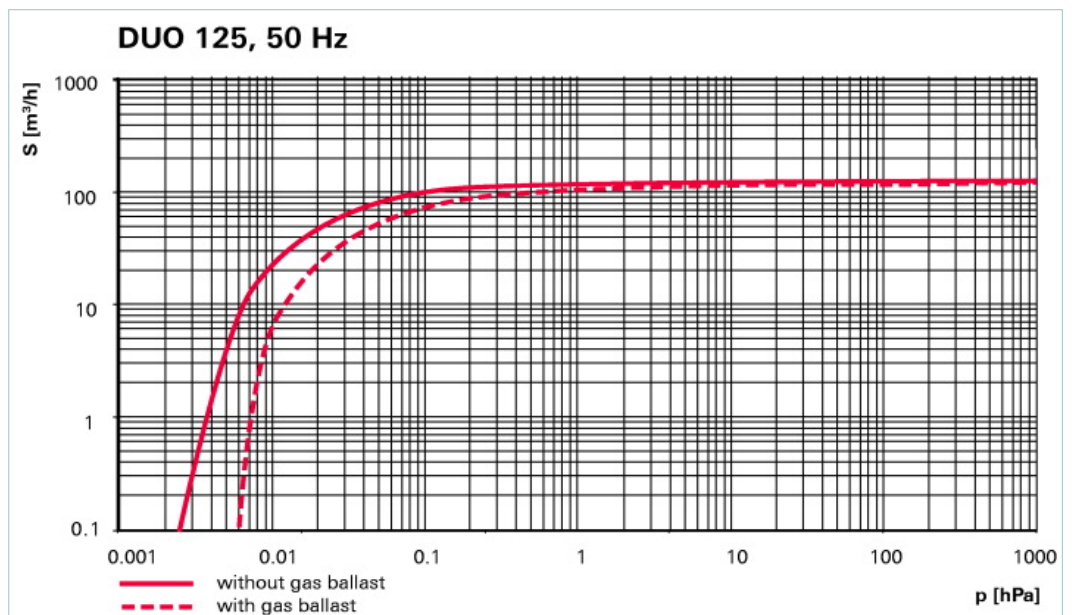
Similar Image

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

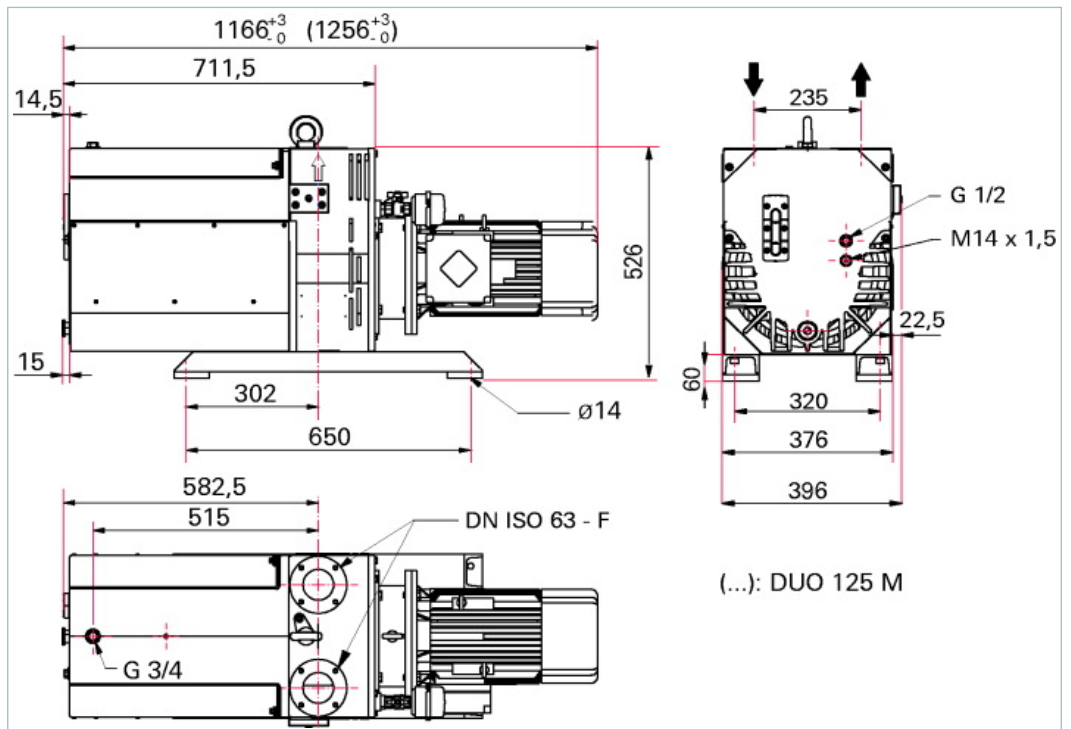
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 135 m³/h
- With 3-phase motor
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for 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 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ 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 ³ /h
Pumping speed at 60 Hz	135 m ³ /h
Rated power 50 Hz	4.0 kW
Rated power 60 Hz	4.5 kW
Rotation speed at 50 Hz	1000 min ⁻¹
Rotation speed at 60 Hz	1200 min ⁻¹
Ultimate pressure with gas ballast	4 · 10 ⁻³ hPa 3 · 10 ⁻³ Torr 4 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	2 · 10 ⁻³ hPa 1.5 · 10 ⁻³ Torr 2 · 10 ⁻³ mbar
Weight	225 kg 496.04 lb

Typical ultimate pressure according to PNEUROP

Order number	
Duo 125/M	PK D47 602

Accessories	
Accessories	
KAS 63, condensate separator for pumping speeds up to 360 m ³ /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
OME 63, oil mist filter for pumping speeds of up to 135 m ³ /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
Accessories HenaLine	
SAS 63 dust separator, DN 63 ISO-K, polyester filter	PK Z60 511
Accessories UnoLine Plus	
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
Consumables	
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

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Duo 255/M

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



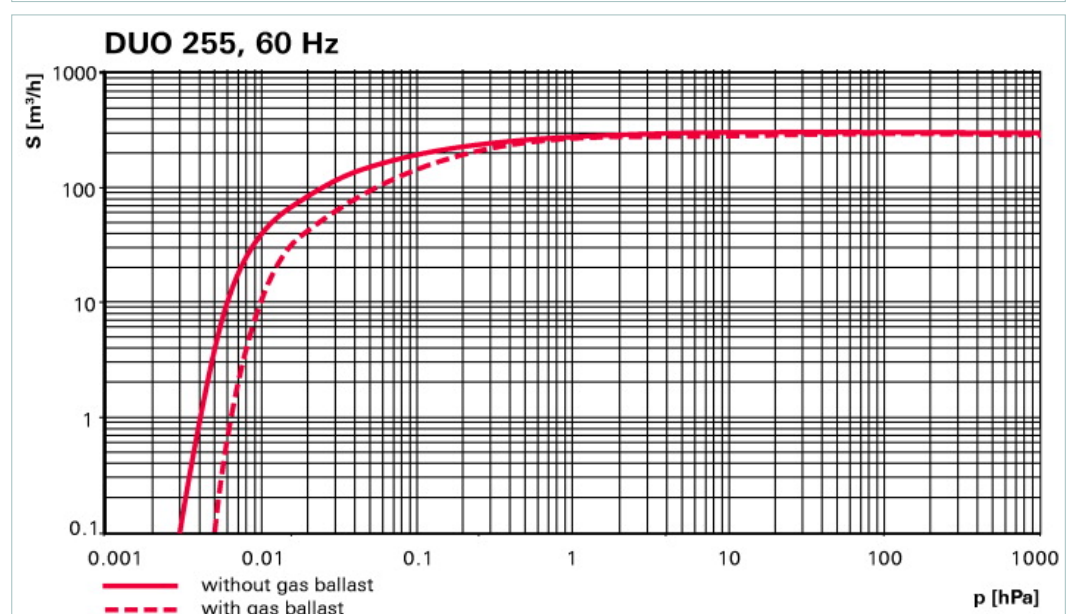
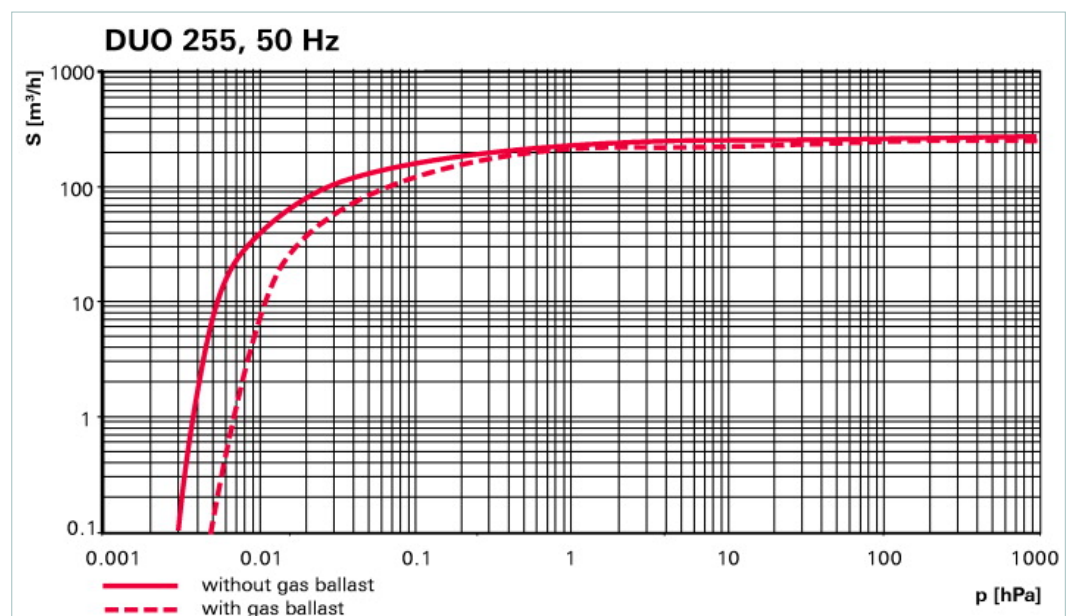
Similar Image

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

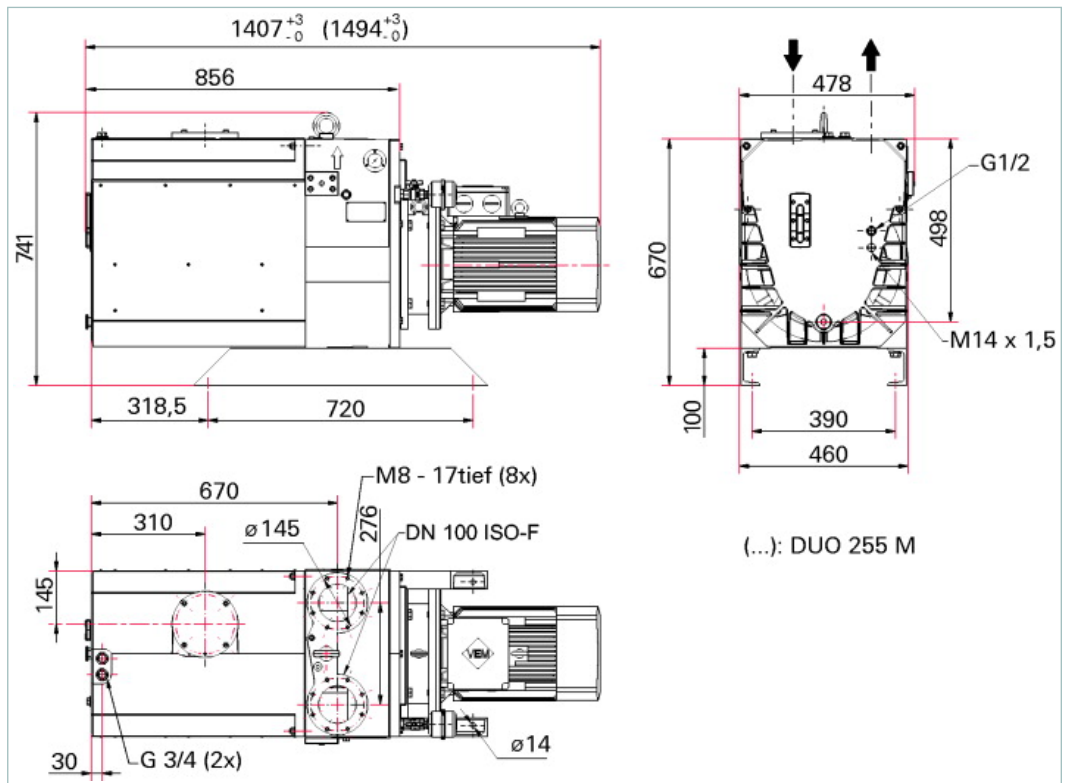
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 300 m³/h
- 3-phase motor for 230/400 V (± 5 %) 50 Hz or 265/460 V (± 5 %) 60 Hz supply voltages
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium 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, 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 safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s ≤ 7.5 · 10 ⁻⁵ Torr l/s ≤ 1 · 10 ⁻⁴ 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	25 l
Protection category	IP 55
Pumping speed at 50 Hz	250 m ³ /h
Pumping speed at 60 Hz	300 m ³ /h
Rated power 50 Hz	7.5 kW
Rated power 60 Hz	9.0 kW
Rotation speed at 50 Hz	1000 min ⁻¹
Rotation speed at 60 Hz	1200 min ⁻¹
Ultimate pressure with gas ballast	4 · 10 ⁻³ hPa 3 · 10 ⁻³ Torr 4 · 10 ⁻³ mbar
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa 2.25 · 10 ⁻³ Torr 3 · 10 ⁻³ mbar
Weight	360 kg 793.66 lb

Typical ultimate pressure according to PNEUROP

Order number	
Duo 255/M	PK D48 602

Accessories	
Accessories	
KAS 100, condensate separator for pumping speeds up to 760 m ³ /h	PK Z10 012
OFM 255, mechanical oil filter	PK Z90 341
Oil pressure switch for Duo 125/255	PK 223 806 -T
OME 100, oil mist filter for pumping speeds up to 300 m ³ /h	PK Z40 012
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
Accessories HenaLine	
SAS 100 dust separator, DN 100 ISO-K, polyester filter	PK Z60 512
Accessories UnoLine Plus	
FAK 100, activated carbon filter	PK Z30 012
Oil return unit, ORF 005, standard version	PK Z90 065
PTC-resistor tripping device	P 4768 051 FQ
Consumables	
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

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