



# DuoVane 12

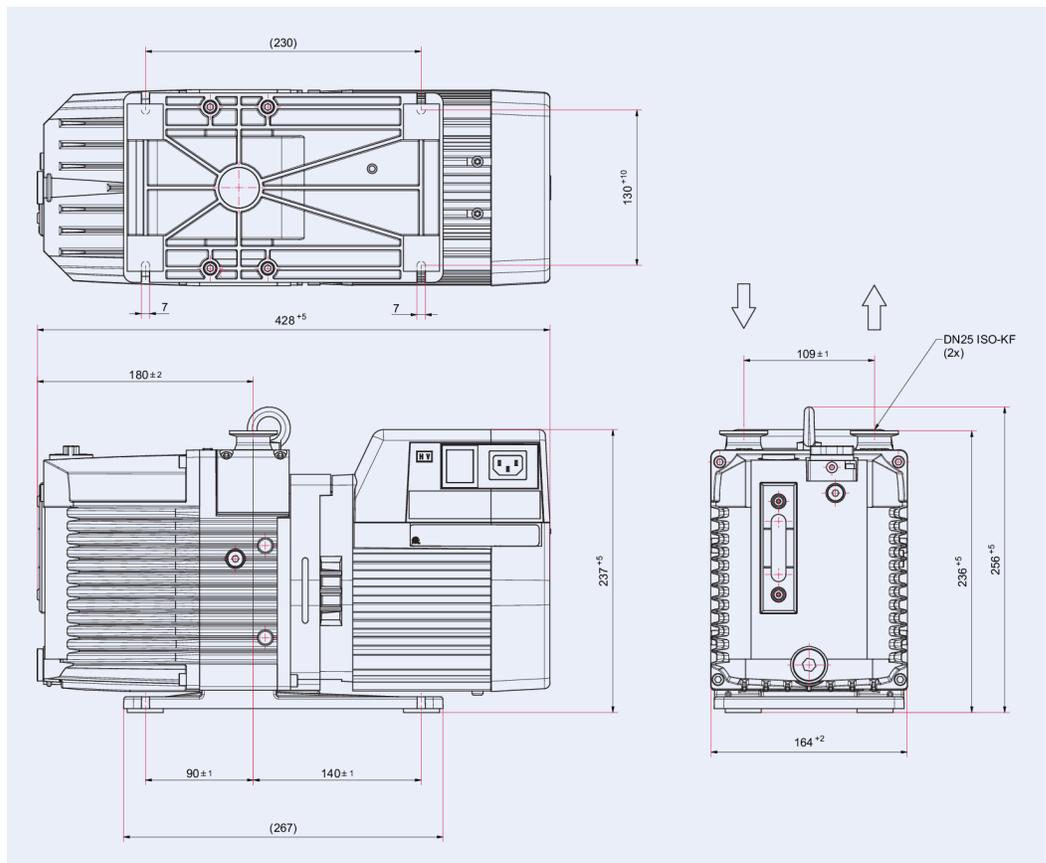


Illustration only

**DuoVane 12, 1-phase motor, 100-115 V / 200-230 V, 50 Hz | 100-115 V / 200-230 V, 60 Hz, Bimetal**

- Dual-stage, high-performance rotary vane pump with a pumping speed up to 12 m<sup>3</sup>/h
- With 1-phase motor
- With temperature sensor (Bimetal) 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

## Dimensions



# DuoVane 12

<b>Technical Data</b>	<b>DuoVane 12, 1-phase motor, 100–115 V / 200–230 V, 50 Hz   100–115 V / 200–230 V, 60 Hz, Bimetal</b>
Gas ballast	Yes
Operating fluid	P3
Cooling method	Air (Forced convection)
Motor type	1-phase motor
Vacuum range min	$1 \cdot 10^{-2}$ hPa
Vacuum range max	$3 \cdot 10^{-3}$ hPa
Ambient temperature	12 – 40 °C
Temperature: Storage, max	55 °C
Temperature: Storage, min	-25 °C
Certification	CE
Input voltage(s)	100 – 115 / 200 – 230 V AC, 50 Hz   100 – 115 / 200 – 230 V AC ( $\pm 10\%$ ), 60 Hz
Ultimate pressure with gas ballast	$1 \cdot 10^{-2}$ hPa   $7.5 \cdot 10^{-3}$ Torr   $1 \cdot 10^{-2}$ mbar
Leakage rate safety valve	$1 \cdot 10^{-5}$ Pa m <sup>3</sup> /s   $7.5 \cdot 10^{-5}$ Torr l/s   $1 \cdot 10^{-4}$ mbar l/s
Continuous gas input temperature, max.	40 °C   104 °F   313.2 K
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Operating altitude, max.	2,000 m
Continuous inlet pressure, max.	50 hPa   37.5 Torr   50 mbar
Rotation speed at 60 Hz	1,800 rpm   1,800 min <sup>-1</sup>
Rotation speed at 50 Hz	1,500 rpm   1,500 min <sup>-1</sup>
Pumping speed at 60 Hz	11.8 m <sup>3</sup> /h   6.95 cfm   196.67 l/min
Pumping speed at 50 Hz	9.5 m <sup>3</sup> /h   5.5917 cfm   158.3365 l/min
Switch	Yes
Exhaust pressure, max.	1,500 hPa
Motor protection	Thermal winding protection
Mains cable	No, C14-plug inside the terminal box
Rated power 50 Hz	0.45 kW
Rated power 60 Hz	0.55 kW
Final pressure with gas ballast	$1 \cdot 10^{-2}$ hPa
Dimensions (L x W x H)	433 x 166 x 239 mm
Continuous inlet pressure, max.	50 hPa
Number of pumping stages	Two stage
Rotation speed at 60 Hz	1,800 rpm
Rotation speed at 50 Hz	1,500 rpm

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Exhaust pressure, min.	Atmospheric pressure
Weight	27.5 kg
Pumping speed at 60 Hz	11.8 m <sup>3</sup> /h
Pumping speed at 50 Hz	9.5 m <sup>3</sup> /h
Connection flange (in)	DN 25 ISO-KF
Connection flange (out)	DN 25 ISO-KF

<b>Order number</b>	<b>DuoVane 12, 1-phase motor, 100–115 V / 200–230 V, 50 Hz   100–115 V / 200–230 V, 60 Hz, Bimetal</b>
DuoVane 12, 1-phase motor, 100–115 V / 200–230 V, 50 Hz   100–115 V / 200–230 V, 60 Hz, Bimetal	PK D920 020 C0

<b>Accessories</b>	<b>DuoVane 12, 1-phase motor, 100–115 V / 200–230 V, 50 Hz   100–115 V / 200–230 V, 60 Hz, Bimetal</b>
Maintenance kit 1 for DuoVane 5 - 20	PK E31 200 -T
Maintenance kit 2 for DuoVane 10	PK E31 212 -T
Service Kit 3 for DuoVane 12	PK E32 202 -T
Valves and springs for DuoVane 10	PK E34 202 -T
Diaphragm HV valve for DuoVane 5 - 20	PK E34 210 -T
Rotary shaft seal for DuoVane 5 - 20	PK E36 200 -T
Vane DuoVane 12	PK E38 202 -T
P3 operating fluids for DuoVane 6 – 22	PK E39 200 -T
Gas ballast valve for DuoVane 5 - 20	PK E39 205 -T
Sight glass for DuoVane 5 - 20	PK E39 206 -T
Seal kit for DuoVane 10	PK E30 202 -T



Errors and/or changes excepted. - 9/30/2025

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