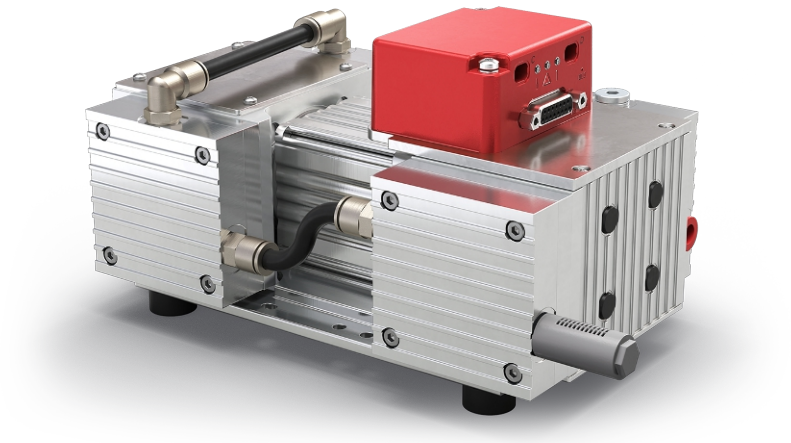
MVP 003-015

Diaphragm vacuum pumps

PFEIFFER VACUUM+FAB SOLUTIONS

Part of the BUSCH GROUP



Process safety

Oil- and particle-free vacuum ensures contamination-free, stable process conditions.

Easy system integration

Compact footprint and smart DC features simplify integration into instruments and vacuum systems.

Quiet operation

Low noise and low vibration support comfortable lab work and stable analytical conditions.

Accessories, spare parts and options

- Connecting cable
- RS-485 interface cable
- USB RS-485 converter
- Gas-ballast valve kit
- Purge gas nozzle with filter
- Flange and hose connection
- OmniControl with or without integrated power supply
- Handheld programming unit
- Silencer G1/8"
- Service kit
- Overhaul kit
- Optional gas-ballast valve
- Variable speed drive
- Cleanroom option

© Pfeiffer Vacuum

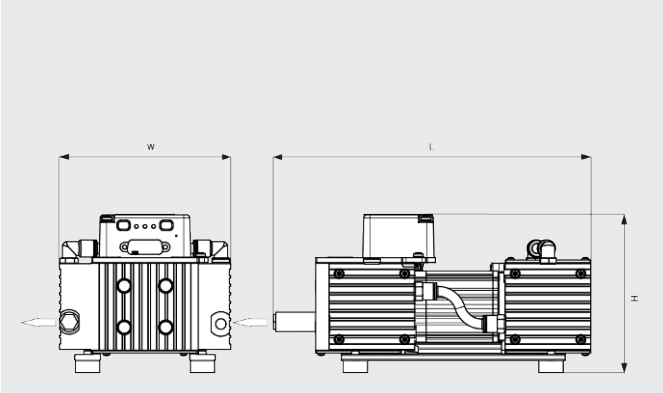
MVP 003-015

Diaphragm vacuum pumps

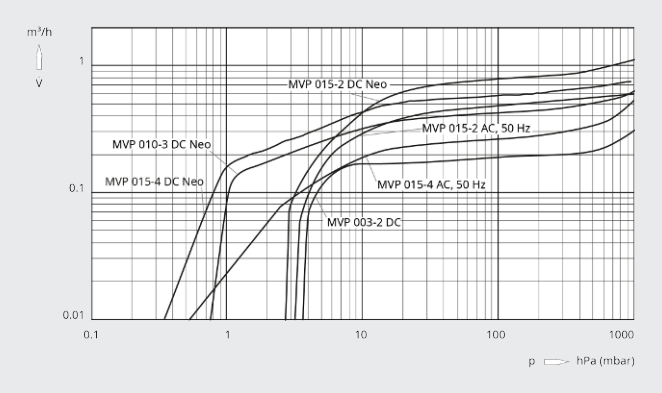
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Dimensional drawing



Pumping speed



*AC versions with 60 Hz have slightly higher values

	MVP 003-2 DC	MVP 003-2 DC Vario	MVP 010-3 DC Neo	MVP 010-3 DC Neo
Pumping speed	0.25 m³/h	0.25 m³/h	0.6 m³/h	0.6 m³/h
Ultimate pressure	7.0 hPa (mbar)	7.0 hPa (mbar)	1.0 hPa (mbar)	1.0 hPa (mbar)
Gas ballast	Yes	Yes	Yes	No
Rotational speed (50 Hz)	3000 min⁻¹	1000 - 3000 min⁻¹	540 - 3000 min⁻¹	540 - 3000 min⁻¹
Rotational speed (60 Hz)	3000 min⁻¹	1000 - 3000 min⁻¹	540 - 3000 min⁻¹	540 - 3000 min⁻¹
Nominal rotation speed	3000 min⁻¹	3000 min⁻¹	1800 min⁻¹	1800 min⁻¹
Intake pressure max.	1000 hPa (mbar)	1000 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Exhaust pressure max.	1300 hPa (mbar)	1300 hPa (mbar)	1300 hPa (mbar)	1300 hPa (mbar)
Supply voltage	24 V DC (±5 %)	24 V DC (±5 %)	24 V DC (±10 %)	24 V DC (±10 %)
Current max.	0.5 A	0.5 A	2.5 A	2.5 A
I/O interface	-	Analog 0-5 V DC	RS-485	RS-485
Cooling method	Natural convection	Natural convection	Natural convection	Natural convection
Protection class	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
Certification	-	-	cTUVus certified according to UL / CSA 61010-1	cTUVus certified according to UL / CSA 61010-1

MVP 003-015

Diaphragm vacuum pumps

PFEIFFER VACUUM+FAB SOLUTIONS

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	MVP 003-2 DC	MVP 003-2 DC Vario	MVP 010-3 DC Neo	MVP 010-3 DC Neo
Sound pressure level	48 dB(A)	48 dB(A)	50 dB(A)	50 dB(A)
Weight approx.	0.7 kg	0.7 kg	2.0 kg	2.0 kg
Dimensions (L x W x H)	116 x 116 x 62 mm	116 x 116 x 62 mm	173 x 105 x 103 mm	173 x 105 x 103 mm
Gas inlet / outlet	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer

	MVP 015-4 DC Neo	MVP 015-4 AC *	MVP 015-2 DC Neo	MVP 015-2 AC
Pumping speed	0.8 m^3/h	-	1.0 m^3/h	-
Pumping speed (50 Hz)	-	0.55 m^3/h	-	0.50 m^3/h
Pumping speed (60 Hz)	-	-	-	0.70 m^3/h
Ultimate pressure	0.5 hPa (mbar)	0.5 hPa (mbar)	3.5 hPa (mbar)	3.5 hPa (mbar)
Gas ballast	optional	optional	Yes	Yes
Rotational speed (50 Hz)	750 - 1800 min^{-1}	1500 min^{-1}	750 - 2600 min^{-1}	1500 min^{-1}
Rotational speed (60 Hz)	750 - 1800 min^{-1}	-	750 - 2600 min^{-1}	1800 min^{-1}
Nominal rotation speed	1500 min^{-1}	-	1800 min^{-1}	-
Intake pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Exhaust pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Supply voltage	24 V DC (±10 %)	230 V AC (-10/+5 %), 50 Hz	24 V DC (±10 %)	100 – 115 / 208 – 236 V AC (±10 %), 50/60 Hz
Current max.	6.8 A	1.1 A	4.6 A	1.1/ 0.6 A
I/O interface	RS-485	-	RS-485	-
Cooling method	Natural convection	Air (forced convection)	Natural convection	Air (forced convection)
Protection class	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
Certification	cTUVus certified according to UL / CSA 61010-1	-	cTUVus certified according to UL / CSA 61010-1	cTUVus certified according to UL / CSA 61010-1
Sound pressure level	49 dB(A)	52 dB(A)	49 dB(A)	52 dB(A)
Weight approx.	4.4 kg	7.5 kg	2.7 kg	6.5 kg

MVP 003-015

Diaphragm vacuum pumps

PFEIFFER VACUUM+FAB SOLUTIONS

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	MVP 015-4 DC Neo	MVP 015-4 AC *	MVP 015-2 DC Neo	MVP 015-2 AC
Dimensions (L x W x H)	260 x 140 x 130 mm	332 x 145 x 154 mm	171 x 140 x 130 mm	287 x 163 x 154 mm
Gas inlet / outlet	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer	G 1/8" / G 1/8" with silencer

*also available with 120 V AC - 60 Hz

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!

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