MVP 020-070

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.

Quiet operation

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

Lowest operating cost

Energy-efficient operation with minimal wear and long service intervals.

Accessories, spare parts and options

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

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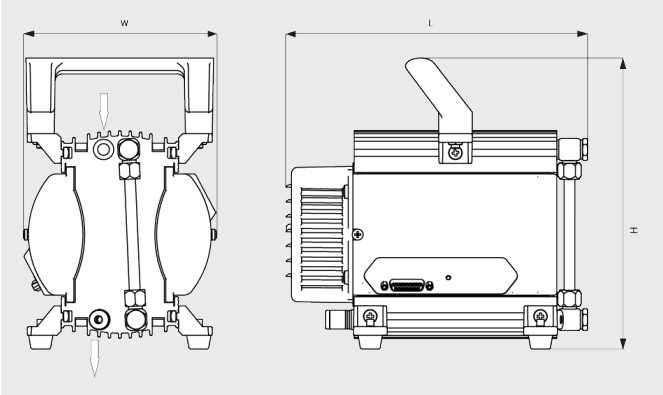
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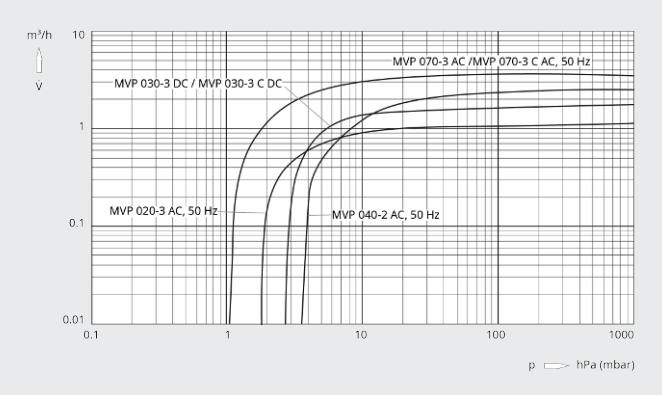
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Dimensional drawing



Pumping speed



*AC versions with 60 Hz have slightly higher values

	MVP 020-3 AC	MVP 030-3 DC	MVP 030-3 C DC
Pumping speed	-	1.8 m^3/h	1.8 m^3/h
Pumping speed (50 Hz)	1.2 m^3/h	-	-
Pumping speed (60 Hz)	1.4 m^3/h	-	-
Ultimate pressure	2.0 hPa (mbar)	2.0 hPa (mbar)	3.0 hPa (mbar)
Gas ballast	optional	optional	Yes
Rotational speed (50 Hz)	1500 min^{-1}	600 - 2400 min^{-1}	600 - 2400 min^{-1}
Rotational speed (60 Hz)	1800 min^{-1}	600 - 2400 min^{-1}	600 - 2400 min^{-1}
Intake pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Exhaust pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Supply voltage	100 – 115 / 220 – 230 V AC, 50 / 60 Hz, 120 V / 60 Hz	24 V DC (±10 %)	24 V DC (±10 %)
Current max.	1.7 A	7.0 A	7.0 A
I/O interface	-	RS-485	RS-485
Cooling method	Air (forced convection)	Natural convection	Natural convection
Protection class	10 - 40 °C	10 - 40 °C	10 - 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

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	MVP 020-3 AC	MVP 030-3 DC	MVP 030-3 C DC
Sound pressure level	48 dB(A)	45 dB(A)	45 dB(A)
Weight approx.	7.3 kg	4.3 kg	4.3 kg
Dimensions (L x W x H)	324 x 151 x 216 mm	223 x 143 x 217 mm	238 x 142 x 223 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

	MVP 040-2 AC	MVP 070-3 AC	MVP 070-3 C AC
Pumping speed (50 Hz)	2.3 m^3/h	3.8 m^3/h	3.4 m^3/h
Pumping speed (60 Hz)	2.5 m^3/h	4.3 m^3/h	3.8 m^3/h
Ultimate pressure	4.0 hPa (mbar)	1.0 hPa (mbar)	1.5 hPa (mbar)
Gas ballast	Yes	No	Yes
Rotational speed (50 Hz)	1500 min^{-1}	1500 min^{-1}	1500 min^{-1}
Rotational speed (60 Hz)	1800 min^{-1}	1800 min^{-1}	1800 min^{-1}
Intake pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Exhaust pressure max.	1100 hPa (mbar)	1100 hPa (mbar)	1100 hPa (mbar)
Supply voltage	100 – 115 / 220 – 230 V AC, 50 / 60 Hz, 120 V / 60 Hz	100 – 115 / 220 – 230 V AC, 50 / 60 Hz, 120 V / 60 Hz	100 – 115 / 220 – 230 V AC, 50 / 60 Hz, 120 V / 60 Hz
Current max.	3.4 A	5.7 A	5.7 A
Cooling method	Air (forced convection)	Air (forced convection)	Air (forced convection)
Protection class	10 - 40 °C	10 - 40 °C	10 - 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	53 dB(A)	52 dB(A)	50 dB(A)
Weight approx.	11.4 kg	16.4 kg	14.3 kg
Dimensions (L x W x H)	246 x 238 x 198 mm	328 x 238 x 198 mm	328 x 242 x 198 mm
Gas inlet / outlet	G 1/4" / G 1/4" with silencer	G 1/4" / G 1/4" with silencer	DN 16 ISO-KF / 10 mm hose connector

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!

CONTACT FORM

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