

Mink

Claw Vacuum Pumps
MV 0502/0602 B



› Latest Claw Vacuum Technology

› Silent:

lowest noise level due to a state-of-the-art acoustic design, can be installed at workstations

› Efficient:

low energy consumption, minimized operating costs

› Compact:

smallest footprint in its performance class

Mink claw vacuum pumps are the result of continuous further development in claw vacuum technology by the market leader in dry claw vacuum pumps. Decades of experience in countless applications have led to substantial improvements in important aspects of the Mink MV series.

The optimized sound insulation of the Mink MV is manufactured according to the latest developments in acoustic design. The low noise levels generated allow operation in the immediate vicinity of workstations.

The sophisticated design of Busch claw vacuum technology allows Mink MV vacuum pumps to operate at exceptionally high efficiency levels, which has a positive effect on the pumping speed and energy consumption. Mink MV vacuum pumps operate extremely efficiently, and can reduce overall operating costs by up to 60% in comparison to conventional vacuum generators. The compact dimensions of Mink MV vacuum pumps permit their installation in the smallest of floor areas.

The contact-free operating principle of claw vacuum technology provides the additional

benefit of nearly maintenance-free operation: None of the internal moving parts of the vacuum pump come in contact with each other, so components are not subject to wear. Servicing tasks such as inspection and replacement of worn parts are eliminated completely.

The proven, completely dry claw vacuum technology of Mink claw vacuum pumps allows them to run without operating fluids in the compression chamber. In practice this means no contamination of the pumped medium, and no environmental emissions. In addition, no costs arise for the purchase, replacement and disposal of operating fluids.

Mink claw vacuum pumps are air cooled, so no effort for the installation and maintenance of a cooling system is required. Their contact-free operating principle allows them to run extremely efficiently throughout the vacuum range and to deliver consistently high pumping speeds during their entire life cycle. The outstanding reliability and long service lifetime of Mink claw vacuum pumps are also a result of the contact-free and dry compression.

Mink – efficient and reliable compressed air generation.



Mink

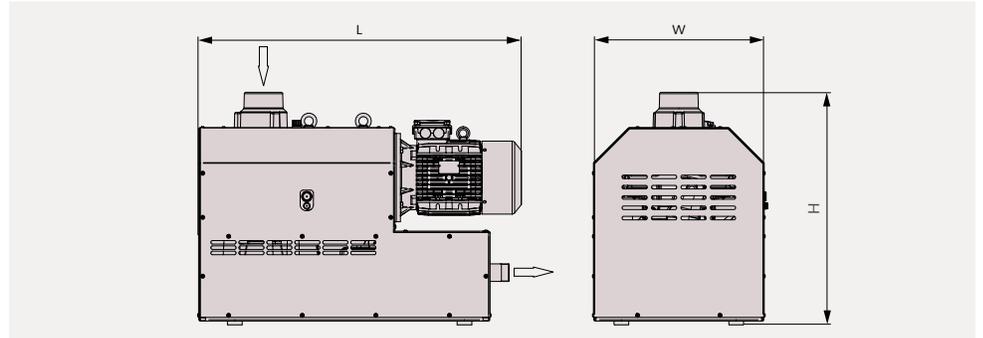
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Technical specifications

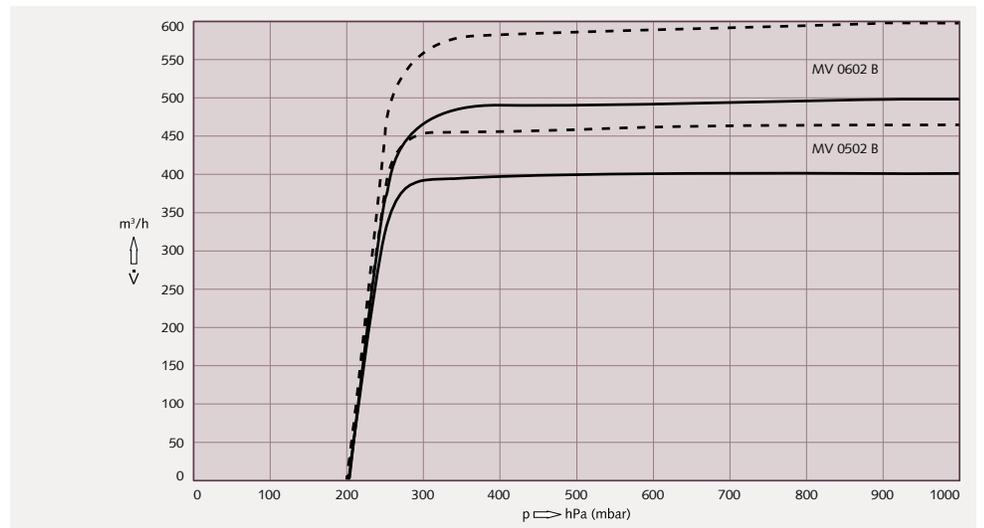
Mink claw vacuum pumps feature two claw-shaped rotors that move in opposite directions, mounted in a housing. The shape of these claw rotors extracts, compresses and expels air or gas. The rotors do not come in contact with each other or the housing, so no lubricants or operating fluids are required in the compression chamber. The minimal clearance between the rotors and the chamber housing optimizes the internal seal and ensures constantly high pumping speeds. An effective air cooling system guarantees optimal operating temperatures. A synchronizing gearbox maintains precise rotor timing. Mink claw vacuum pumps are driven by a directly flange-mounted asynchronous motor of efficiency class IE3 or NEMA Premium.

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Volume flow

Air at 20 °C. Tolerance: ± 10% — 50 Hz - - - - 60 Hz



Technical data			MV 0502 B	MV 0602 B
Nominal pumping speed	50 Hz / 60 Hz	m ³ /h	400 / 470	500 / 600
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	200	200
Nominal motor rating IEC	50 Hz 50 Hz / 60 Hz	kW	- 7.5 / 9.5	9.2 11.0 / 12.6
Nominal motor rating NEMA	60 Hz	HP	15	20
Nominal motor speed	50 Hz / 60 Hz	min ⁻¹	3000 / 3600	3000 / 3600
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	72 / 75	73 / 76
Weight approx.		kg	450 / 470	468 / 472
Dimensions IEC (L x W x H)		mm	1085 x 580 x 795	1100 x 580 x 795
Dimensions NEMA (L x W x H)		mm	1175 x 580 x 795	1212 x 580 x 795
Gas inlet/outlet			G 3" / R 2"	G 3" / R 2"

Busch Vacuum Technics Inc.

1740, Lionel Bertrand Blvd. | Boisbriand, Québec J7H 1N7 | Phone +1 800 363 6360 | info@busch.ca | www.busch.ca

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Technical data is subject to change. Created in Germany. MG.PL MINKMV05020602B CAen 08/2017 7Aa