

Mink

Claw Vacuum Pumps
MM 1402/1502 AV



- › **Efficient:**
energy-efficient,
minimized operating costs
- › **Nearly Maintenance-Free:**
dry and contact-free
compression
- › **Reliable:**
operationally reliable

Busch Mink claw vacuum technology for industrial vacuum generation offers the highest possible energy efficiency combined with low maintenance and a constant level of performance.

The sophisticated design of Busch claw vacuum technology allows Mink claw vacuum pumps to operate at extremely high efficiency levels, which has a positive effect on the pumping speed and energy consumption. In practice this means substantial energy savings for the same pumping speed when compared to conventional vacuum generators.

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. This means that the possibility of contamination of the pumped medium and environmental emissions is eliminated. In addition, no costs arise for the purchase, replacement and disposal of operating fluids.

Mink claw vacuum pumps are air cooled, so installation and maintenance of a cooling system is unnecessary. Their contact-free operating principle allows them to run extremely efficiently throughout the vacuum range and to deliver constantly 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. An intelligent sound insulation design allows Mink claw vacuum pumps to operate at low sound levels.

**Mink – efficient and reliable
vacuum generation.**



Mink MM 1502 AV

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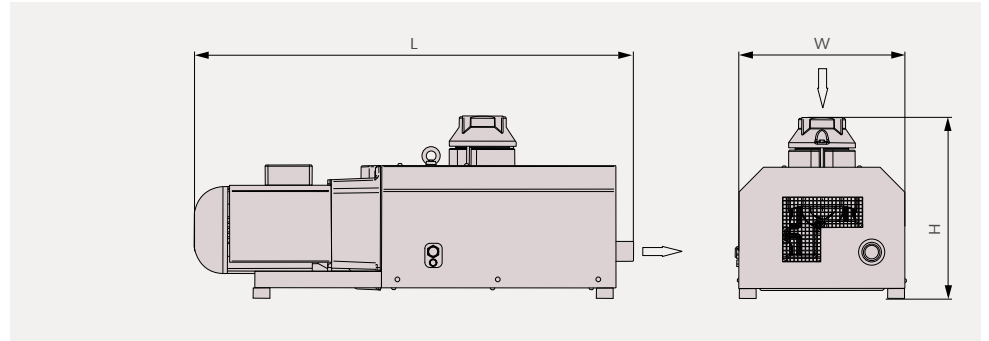
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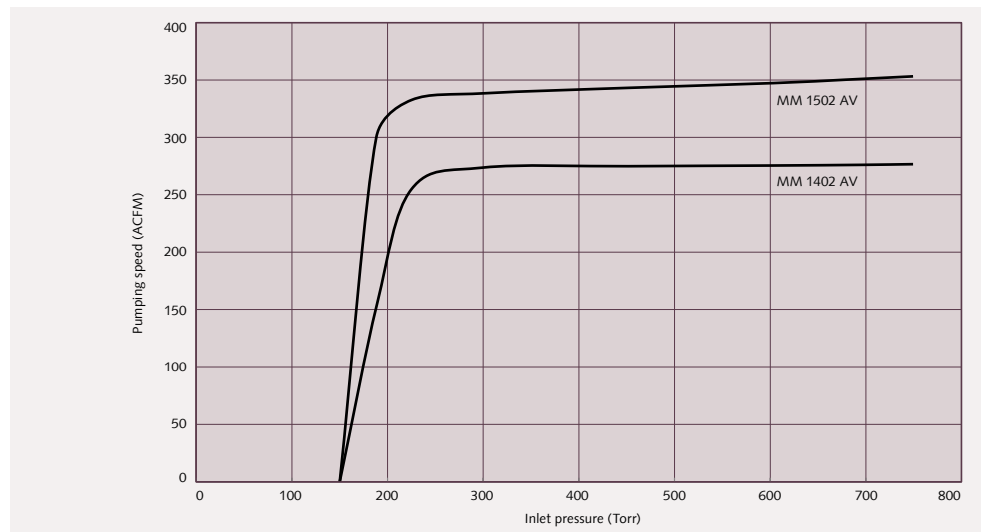
Technical specifications

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.

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Pumping speed Air at 70 °F. Tolerance: ± 10%



Technical Data		MM 1402 AV	MM 1502 AV
Max. pumping speed	ACFM	277	353
Ultimate pressure	Torr	150	150
Nominal motor rating	HP	12	15
Nominal motor speed	RPM	3600	3600
Sound level (ISO 2151)	dB(A)	83	86
Approximate weight	Lbs	706	717
Dimensions (L x W x H)	inches	51 5/8 x 20 1/4 x 21 1/2	51 5/8 x 20 1/4 x 21 1/2
Gas inlet / outlet	NPT	3" / 2"	3" / 2"

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%.

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Technical data is subject to change. Created in Germany MG PL MM14021502AV USenus 07/2017 7Aa