

Mink

Claw Vacuum Pumps MV 0040–0080 C Synchro



- › **Latest Claw Vacuum Technology**
- › **Quiet:** lowest sound 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
- › **Application-Oriented:** thanks to an intelligent variable speed drive, Aqua version available

Mink MV 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 sound 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. The compact dimensions of Mink MV vacuum pumps permit their installation in the smallest of floor areas.

All three models of Mink MV 0040–0080 C are fitted with a frequency converter and synchronous drive. The frequency converter is set by default to the maximum speed, and can be switched by the power supply. The system can receive external control commands via digital and/or analog inputs.

The control settings of the Mink MV 0040–0080 C can be adjusted to match the process exactly. A manual control unit,

a parameter configuration kit or a fieldbus module may be used for this purpose.

The manual control unit allows the motor speed to be set, and also permits lots of other frequency converter functions to be displayed and altered. The vacuum system may be controlled by computer using the parameter configuration kit (accessory). Various fieldbus modules are available to connect Mink MV vacuum pumps to a process control system.

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 pumps allows them to run without operating fluids in the compression chamber. Mink claw vacuum pumps are air cooled, so no effort for the installation and maintenance of a cooling system is required. 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 vacuum generation, tailored to your process.



Mink MV 0080 C

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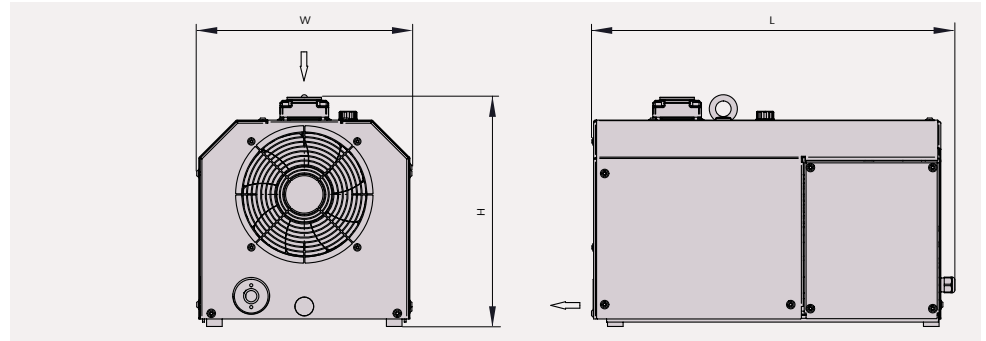
Technical specifications

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 MV 0040–0080 C are driven by a directly mounted synchronous motor. Operation with a frequency converter allows the pumping speed to be matched precisely to process demand.

Accessories / Technical options

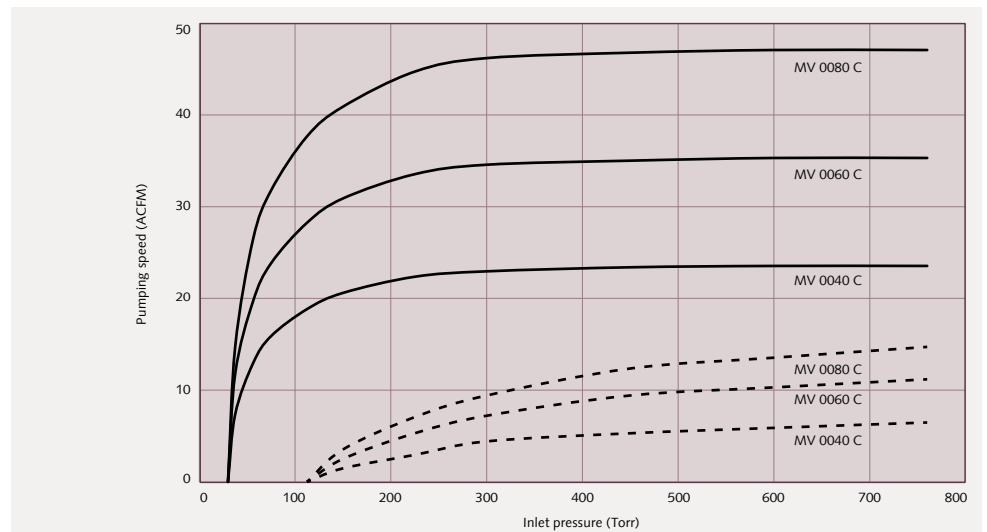
- Manual control unit for easy vacuum pump control
- Parameter configuration kit for alteration of control settings by computer, including software
- Pressure transmitter for pressure-regulated vacuum pump operation
- Inlet filter

Mink MV 0040–0080 C



Pumping speed

Air at 70 °F. Tolerance: ± 10% — Maximum - - - - Minimum



Technical Data		MV 0040 C	MV 0060 C	MV 0080 C
Max. pumping speed	ACFM	23.5	35.3	47
Ultimate pressure	Torr	30	30	30
Nominal power rating (motor + fan)	kW (HP)	1.3 (1.7)	1.7 (2.3)	2.1 (2.8)
Nominal motor speed	RPM	1200–4200	1200–4200	1200–4800
Sound level (ISO 2151)*	dB(A)	62	68	71
Approximate weight	Lbs.	176	188	192
Dimensions (L x W x H)	inches	23 x 13 9/16 x 14 9/16	24 x 13 9/16 x 14 9/16	24 x 13 9/16 x 14 9/16
Gas inlet / outlet		G 1 1/4" / G 3/4"	G 1 1/4" / G 3/4"	G 1 1/4" / G 3/4"

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

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Technical data is subject to change. Created in Germany. MG PL MINKMV00400080CSYNCHRO USenus 11/2016 6.0