

# Mink

Claw Vacuum Pumps  
MV 0040 - 0080 C



Mink MV vacuum pumps are the most effective and economical method of industrial vacuum generation. Busch now also offers the models Mink MV 0040, 0060 und 0080 C with lower pumping speeds.

Mink claw vacuum pumps have the highest operating efficiency of all mechanical systems used within the industry. Their operating principle is contact-free and requires no operating fluids, ensuring top performance and low operating costs.

The three new models deliver pumping speeds of 40, 60 and 80 m<sup>3</sup>/h, extending the proven Mink range downwards. The complete Mink range now includes sizes of between 40 and 1,200 m<sup>3</sup>/h.

#### Operating fluid free

Mink claw vacuum pumps compress the process medium without operating fluids. No cross-contamination can occur, so the process medium requires no costly cleaning procedures.

#### Application oriented

All three models are fitted with a frequency converter and synchronous drivetrain as standard equipment. 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 or analog inputs.

The control settings of the Mink MV 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 (i.e. the pumping speed) to be set, and also permits all frequency converter functions to be displayed and altered. The vacuum system may be controlled by PC using the parameter configuration kit (accessory). Various fieldbus modules are available to connect Mink MV vacuum pumps to a process control system.



**Mink – the most efficient industrial vacuum generator, tailored to your process.**



Mink MV 0080 C

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## Claw Vacuum Pumps MV 0040 - 0080 C



### Technical specifications

With Mink vacuum pumps, two claw-shaped rotors turn in opposite direction inside the housing. Due to the shape of these claw rotors, the air or gas is sucked in, compressed and discharged. The claw rotors do not come into contact either with each other nor with the cylinder in which they are rotating. Tight clearances between the claw rotors and the housing optimise the internal seal and guarantee a consistently high pumping speed. A synchronisation gearbox ensures exact synchronisation of the claw rotors. Mink vacuum pumps are driven by a directly mounted synchronous motor.

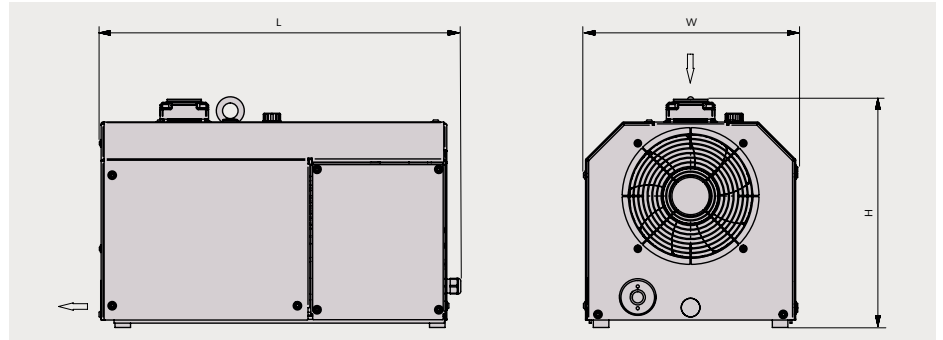
### Variable pumping speeds

The frequency converter allows the pumping speed to be matched to the process. The performance graph shows the minimum pumping speed (dotted lines) and maximum pumping speed (continuous lines) of all three models.

### Accessories/technical options

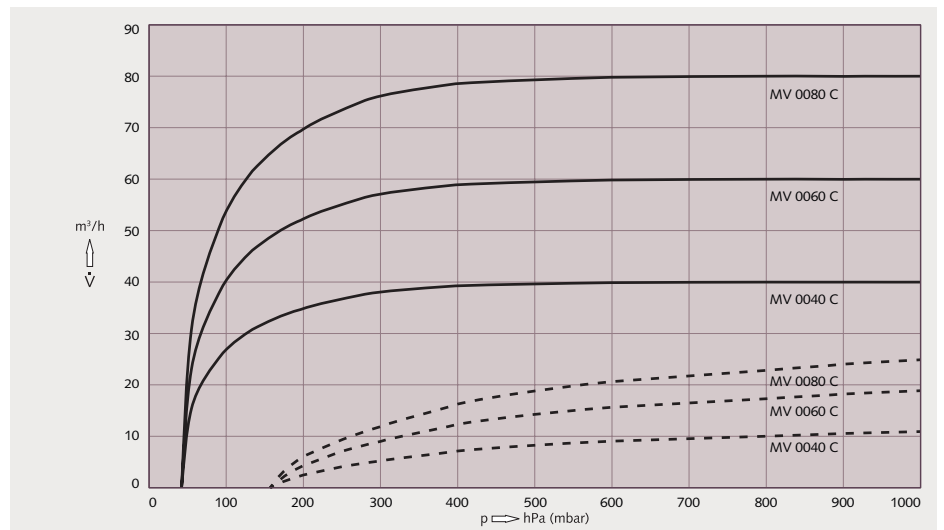
- Manual control unit for simple vacuum pump control
- Parameter configuration kit for alteration of control settings by computer
- Pressure transmitter for pressure-regulated vacuum pump operation
- Inlet filter

### Mink MV 0040 - 0080 C



### Pumping Speed

Air at 20 °C. Tolerance: ± 10% — Maximal - - - - Minimal



Technical Data			MV 0040 C	MV 0060 C	MV 0080 C
Nominal pumping speed	50 Hz / 60 Hz	m³/h	40	60	80
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	40	40	40
Performance (motor + fan)	50 Hz / 60 Hz	kW	1.3	1.7	2.1
Nominal motor speed	50 Hz / 60 Hz	min <sup>-1</sup>	1200 - 4200	1200 - 4200	1200 - 4800
Noise level (ISO 2151) *	50 Hz / 60 Hz	dB(A)	62	68	71
Weight approx.		kg	80	85	87
Dimensions	L x W x H	mm	585 x 345 x 370	610 x 345 x 370	610 x 345 x 370
Gas inlet / outlet			G 1 1/4" / G 3/4"	G 1 1/4" / G 3/4"	G 1 1/4" / G 3/4"

\* average at ultimate pressure

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Technical data is subject to change. Created in Germany 01/2015