

Simplex

Vacuum Systems

VO 0040-0080 A



> Efficient:

low energy consumption due to energy-saving control, oil-free operation, nearly maintenance-free

> Flexible:

application-oriented due to an intelligent variable speed drive, easy installation, optimum safety through a vacuum vessel

> Compact:

vacuum vessel mounted directly beneath the vacuum pump, motor protection switch and inlet filter

Simplex VO are compact vacuum systems with Mink MV claw vacuum pumps. Using the integrated energy-saving control, they can be programmed in such a way that they ideally respond to a process or changing process conditions and, as a result, constantly maintain the desired vacuum level.

Due to the vacuum vessel it is possible to quickly and reliably achieve a specified vacuum level. Moreover, several individual vacuum pumps may be replaced. Suddenly occurring leaks can be easily buffered, thus increasing production safety. The mobile version of this vacuum system on casters (option) enables quick and flexible use at different locations within a facility.

The core of Simplex VO vacuum systems is the completely dry Mink MV claw vacuum

pump without any operating fluids in the compression chamber. Along with the contact-free operating principle the VO vacuum system is nearly maintenance-free.

Due to the intelligent and programmable drive, the Mink MV maintains the desired vacuum level in the vessel by automatically adjusting the speed and thus the performance of the vacuum pump. If the desired vacuum level in the vessel is achieved, the vacuum pump switches into standby mode and only begins operating again when needed. This enables further energy savings.

VO vacuum systems are equipped with a main switch and an analogue pressure sensor. The desired vacuum level can be set or changed using the manual operating device or a laptop with a parametrization kit.

Simplex VO – the intelligent, efficient and compact solution.



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Technical specifications

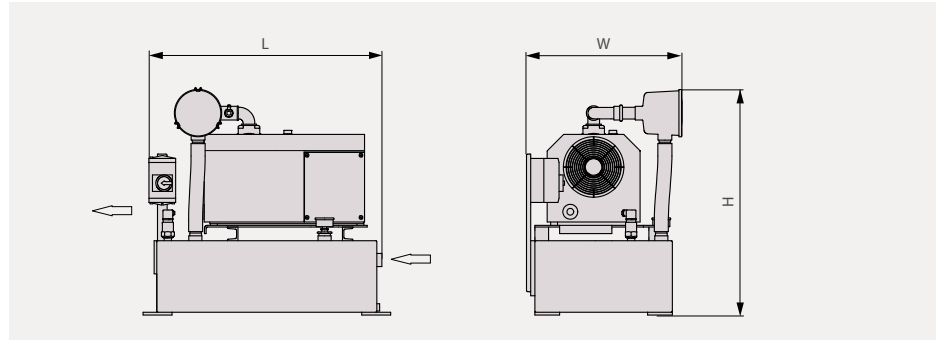
Mink claw vacuum pumps feature two claw-shaped rotors that move in opposite directions, mounted in a housing. The shape of these claw rotors extracts, compresses and expels air or gas. The rotors do not come in contact with each other or the housing, so no lubricants or operating fluids are required 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. In addition to a Mink MV claw vacuum pump and the vacuum vessel, a motor protection switch, an analogue pressure sensor, a pressure gauge and an inlet filter are included in the scope of delivery. All components are fully mounted on the vacuum vessel and are ready for immediate use.

Accessories / Technical options

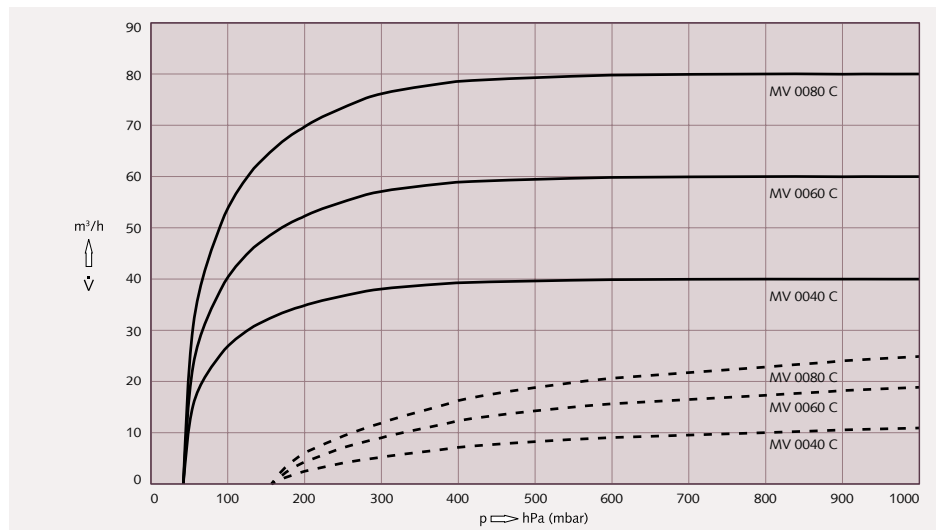
- Mobile version on casters
- Manual operating device for easy vacuum pump control
- Parametrization kit for parametrizing on a laptop

VO 0040-0080 A



Pumping speed

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



Technical data		VO 0040 A	VO 0060 A	VO 0080 A
Nominal pumping speed	m ³ /h	40	60	80
Ultimate pressure	hPa (mbar)	40	40	40
Nominal motor rating (motor + fan)	kW	1,3	1,7	2,1
Nominal motor speed	min ⁻¹	1200-4200	1200-4200	1200-4800
Noise level (ISO 2151)	dB(A)	62	68	71
Oil capacity	l	0,6	0,6	0,6
Volume vacuum vessel	l	100	100	100
Weight approx.	kg	154	159	159
Dimensions (L x W x H)	mm	900 x 565 x 829	900 x 565 x 829	900 x 565 x 829
Gas inlet/outlet		G1 ¼" / G ¾"	G1 ¼" / G ¾"	G1 ¼" / G ¾"

Technical data only for 50 Hz, as operating voltage of control panel 380-415 V / 50 Hz

www.buschvacuum.com

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Technical data is subject to change. Created in Germany. MG-PL Simplexvo00400080a Lde 09/2017 7Aa