

Zebra

Two-Stage Rotary Vane Vacuum Pumps RH 0030–0090 B



- › **Cost-effective**
- › **Reliable:**
robust construction,
proven technology,
reliable operation
- › **High performance:**
stable pumping speed
even in low pressure range
- › **Quiet:**
sound level ≤ 66 dB(A)
- › **Easy servicing**

Zebra two-stage rotary vane vacuum pumps have been designed to suit the requirements of a wide range of applications, from research labs to production lines.

Robustness and reliability of operation are the outstanding qualities of Zebra rotary vane vacuum pumps. These are just some of the reasons why proven Busch rotary vane technology has long established itself as the industry standard. Over 2.5 million Busch rotary vane vacuum pumps are in operation worldwide in industry every day. With the Zebra series, Busch also offers two-stage rotary vane vacuum pumps for applications in the medium vacuum range.

The consistently high vacuum level in continuous operation is ensured by forced oil lubrication, perfectly coordinated materials as well as state-of-the-art precision manufacturing. Its silent operation makes the

Zebra vacuum pump series perfectly suited for use in research labs, where a low-noise working environment is essential. The advanced design ensures that only minimal maintenance is required.

Applications

- Laboratory
- Distillation/Extraction
- Filtration/Solvent recovery
- Analytical instruments – GCMS
- Backing pump for turbomolecular and diffusion vacuum pumps
- Electron microscopes
- Leak detectors
- Vacuum drying, freeze-drying (lyophilization)
- Refrigeration and air conditioning
- Load locks and transfer chambers
- Coating equipment

Zebra – reliable medium vacuum for demanding applications in industry and research.



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Technical specifications

Rotary vane technology is synonymous with a robust, functional construction. Due to two-stage compression, an ultimate total pressure of $6.7 \cdot 10^{-3}$ hPa (mbar) is achieved. While the oil mist separator ensures clean and oil-free exhaust air, the inlet filter protects the vacuum pump against dust and other solid particles. Furthermore, the gas-ballast valve allows condensable vapors to be pumped. A non-return valve at the exhaust prevents oil from flowing back into the compression chamber after the vacuum pump is switched off. In addition to the four pump sizes from 30 to 90 m³/h outlined here, the Zebra series also includes models with lower pumping speeds from 3 to 21 m³/h.

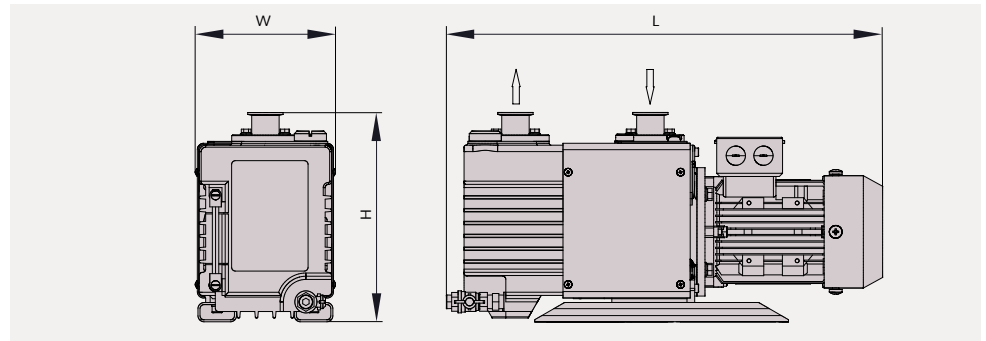
Standard features

- ISO-K and ISO-KF flanges
- Multi-voltage motors
- Multi-frequency motors (50 Hz / 60 Hz)
- cTUVus certifications

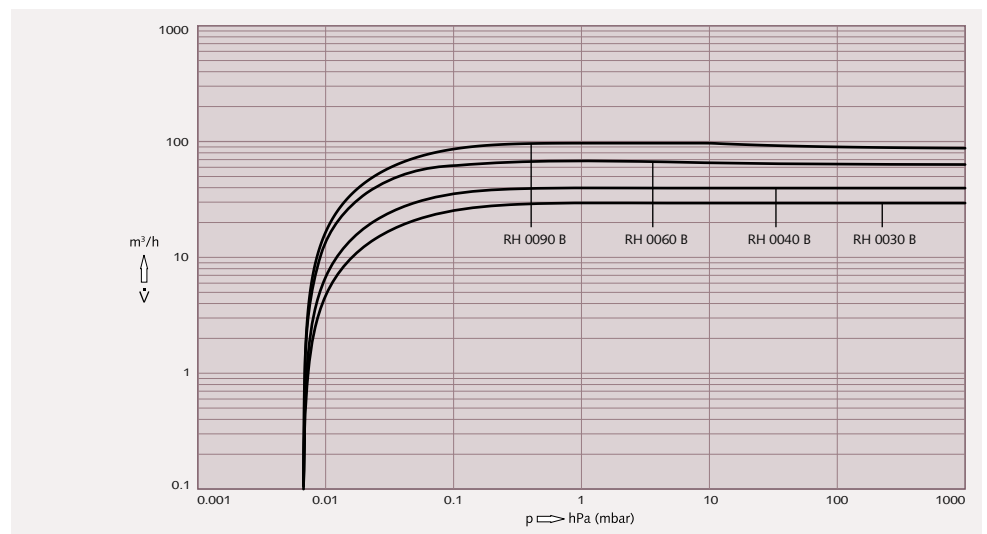
Accessories / Technical options

- Gas-ballast valve
- Oil mist separator
- Oil return line
- Inlet filter

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



Technical Data		RH 0030 B	RH 0040 B	RH 0060 B	RH 0090 B
Nominal displacement		m ³ /h 36	48	72	108
Max. pumping speed		m ³ /h 29	39	65	95
Ultimate partial pressure		hPa (mbar) $6.7 \cdot 10^{-4}$	$6.7 \cdot 10^{-4}$	$6.7 \cdot 10^{-4}$	$6.7 \cdot 10^{-4}$
Ultimate total pressure	Gas-ballast valve closed / open	hPa (mbar) $6.7 \cdot 10^{-3} / 2 \cdot 10^{-2}$	$6.7 \cdot 10^{-3} / 2 \cdot 10^{-2}$	$6.7 \cdot 10^{-3} / 2 \cdot 10^{-2}$	$6.7 \cdot 10^{-3} / 2 \cdot 10^{-2}$
Nominal motor rating		kW 1.5	1.5	2.2	3.7
Oil		VMA 055	VMA 055	VMA 055	VMA 055
Sound level (ISO 2151) with oil mist separator		dB(A) ≤ 61	≤ 64	≤ 62	≤ 66
Approximate weight		kg 58	60	90	113
Dimensions (L x W x H)		mm 671 x 214 x 326	691 x 214 x 326	772 x 264 x 373	831 x 264 x 373
Gas inlet		VG 40 (ISO-KF 40)	VG 40 (ISO-KF 40)	VG 50 (ISO-KF 40)	VG 50 (ISO-K 63)
Gas outlet (adapter)*				VG 40 (ISO-KF 40)	VG 40 (ISO-KF 40)

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%. * The adapter is part of the standard package.

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Technical data is subject to change. Created in Germany MG PL RH00300090B USenus 04/2017 6.2