

R 5

Rotary Vane Vacuum Pumps RA 1000/1600 B



The highest pumping speed at the best ultimate pressure is guaranteed by the two largest sizes of the proven series of R 5 rotary vane vacuum pumps.

Robustness and reliability of operation are the outstanding properties of R 5 rotary vane vacuum pumps. These are some of the reasons why proven Bosch technology has long been established as the industry standard. Over two million R 5 vacuum pumps are in use worldwide in industrial day to day business.

Operationally reliable and cost-effective
The rotary vane technology has been continuously developed and optimised by Bosch for 50 years, with constant focus on both economy and reliability of operation. High efficiency and energy-efficient drive units are the positive results of this development. These vacuum pumps are fitted with heavy-duty carbon fibre composite vanes as standard.

These Bosch vanes have been developed for tough operation of R 5 vacuum pumps and are manufactured exclusively at our own plant. The highly efficient exhaust filters are also a special development, as they guarantee optimum oil separation of even the smallest oil particles from the exhaust.

Service-friendly

Maintenance can easily be carried out by the operator. Apart from the change of oil and filters at regular service intervals, no further maintenance is necessary.

R 5 rotary vane vacuum pumps are known throughout the industry for modern and energy-efficient vacuum generation suitable for all kinds of applications – whether being used intermittently or around the clock, you can rely on the R 5.



**R 5 – Proven and reliable.
Over 2.5 million pumps
in operation worldwide.**



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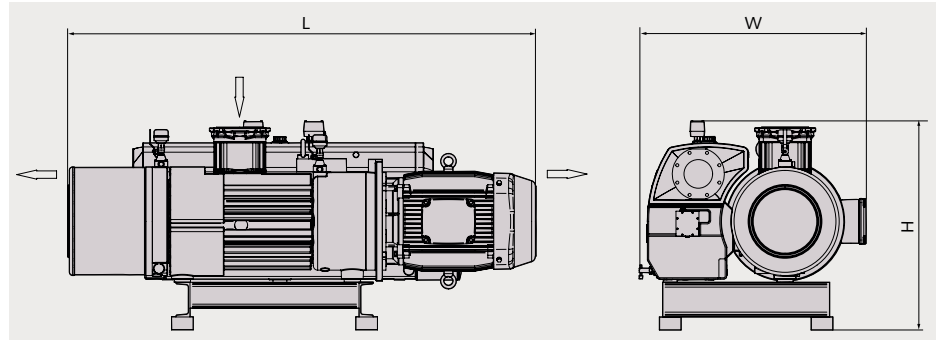
Technical specifications

The rotary vane technology enables technically simple assembly of the vacuum pumps. The consistently high vacuum level in continuous operation is guaranteed by the circulating oil lubrication, perfectly coordinated materials and state-of-the-art and precise manufacturing. The oil separator, which is mounted on as standard, ensures clean, oil-free exhaust thanks to its sophisticated extractor system with integrated oil return. When fitted with gas ballast valves (optional), even larger amounts of vapour can be pumped. A non-return valve in the inlet bushing prevents air from flowing back into the vacuum chamber during the vacuum pump's shut-down period. The drive unit is driven by a directly flange-mounted standard electric motor, efficiency class IE2.

Accessories/technical options

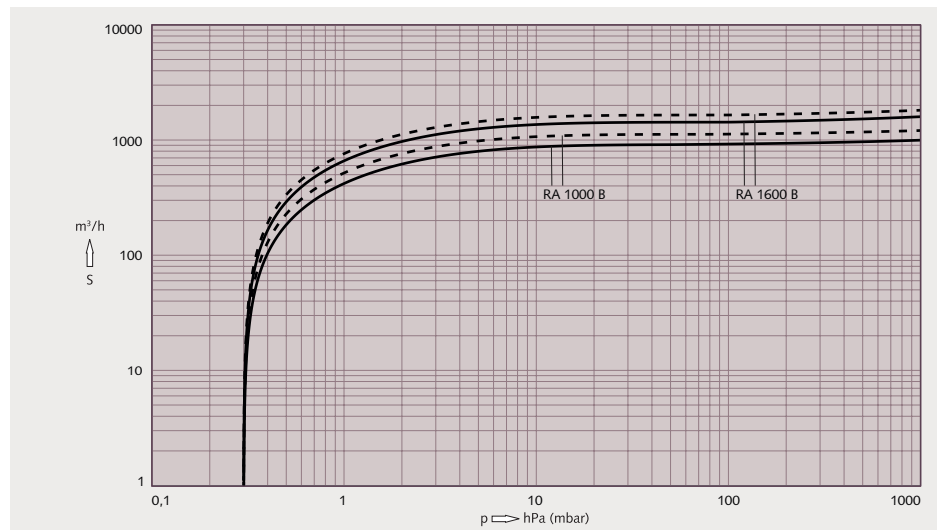
- Gas ballast valve
- Various inlet filters
- Filter pressure gauge
- Oil level switch
- Vacuum regulating unit
- Vacuum oils for all applications

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Pumping speed

Air at 20 °C. Tolerance: ± 10% — 50 Hz - - - - 60 Hz



Technical Data		RA 1000 B		RA 1600 B
Nominal pumping speed	50 Hz / 60 Hz	m³/h	1000 / 1200	1600 / 1800
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	0.3	0.3
Nominal motor rating	50 Hz / 60 Hz	kW	22.0 / 30.0	30.0 / 37.0
Nominal motor speed	50 Hz / 60 Hz	min ⁻¹	1000 / 1200	1000 / 1200
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	82	83
Oil capacity		l	30.0	30.0
Weight approx.		kg	1000 / 1060	1330 / 1350
Dimensions	L x W x H	mm	1894 x 1003 x 936	2234 x 1040 x 936
Gas inlet / outlet		DN	150 / 125	150 / 125

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Technical data is subject to change. Created in Germany 02/19