

R 5

Rotary Vane Vacuum Pumps RD 0200–0360 A



› Efficient:

low operating costs, high uptime, energy-efficient, reduced heat emission, optimized heat direction

› Flexible:

application-oriented, multi-directional horizontal inlet flange, optimized for fast packaging cycles

› Easy Servicing:

all service relevant parts on one side, service routine significantly faster, smooth surface design for easy cleaning

› Reliable:

robust construction, highly resilient carbon fibre vanes, proven performance

RD series vacuum pumps belong to the Busch product family of proven R 5 rotary vane vacuum pumps. They have been specially designed for use in vacuum packaging machines and fast packaging cycles.

Robustness and reliability of operation are the outstanding qualities of R 5 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 3 million R 5 rotary vane vacuum pumps are in operation worldwide in industry every day.

High efficiency is the outstanding quality of this product family. The R 5 RD series outperforms any comparable rotary vane vacuum pump on the market by more than 20% in terms of energy efficiency.

Heat emission has also been reduced, and the cooling air may be directed downward through a newly developed cooling air deflector (option). Reduced heat emission

and optimized heat discharge contribute to a low ambient temperature.

Maintenance can easily be carried out by the operator. Apart from changing oil and filters at regular service intervals, no further maintenance is required. As all service relevant components are mounted on one side of the vacuum pump for easier access, the service routine becomes significantly faster. Moreover, the smooth surface design facilitates cleaning.

Rotary vane technology has been continuously developed and optimized by Busch in the course of over 50 years, always with a strong focus on economy and reliability of operation.

R 5 rotary vane vacuum pumps stand for advanced and energy-efficient vacuum generation in a wide variety of applications in industry throughout the world. You can always rely on the R 5 – whether used intermittently or around the clock.

**R 5 – proven and reliable.
Over 3 million pumps
in operation worldwide.**

**20%
ENERGY
SAVINGS**

R 5 RD
New Generation



R 5 RD 0360 A

R 5

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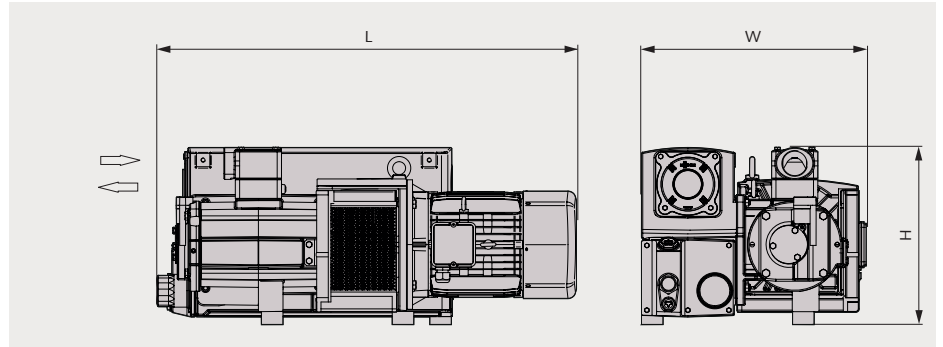
Technical specifications

Rotary vane technology is synonymous with a robust, functional construction. R 5 rotary vane vacuum pumps are characterized by an optimum design and perfectly synchronized components and materials. The constantly high vacuum level in continuous operation is ensured by recirculating oil lubrication and state-of-the-art precision manufacturing. A sophisticated oil separator ensures efficient use of oil. Because the vacuum pump is fitted with a gas-ballast valve, even large quantities of vapour can be extracted. A non-return valve in the inlet flange prevents the pumped medium from flowing back into the vacuum process after the vacuum pump is switched off. The vacuum pump is driven by a directly flange-mounted standard electric motor, with an efficiency class of IE3.

Accessories / Technical options

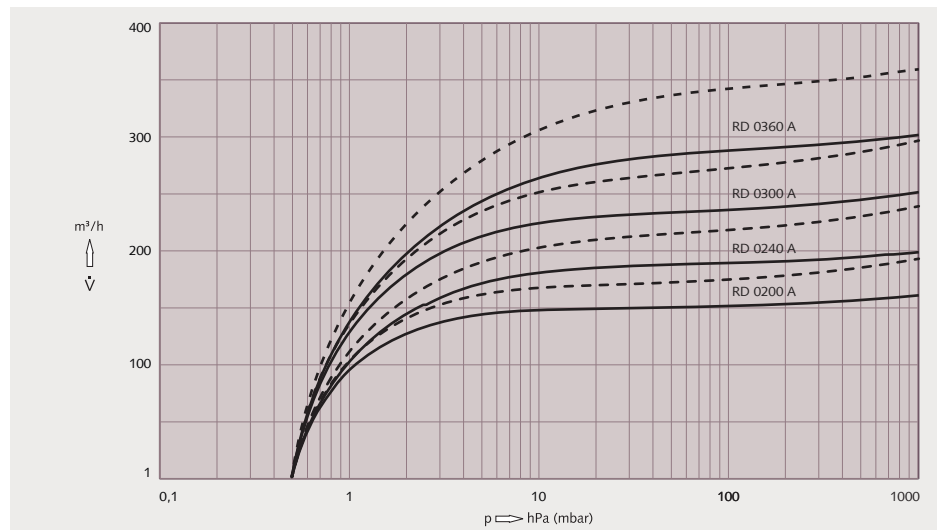
- Vertical inlet
- Larger gas-ballast valve
- Various inlet filters
- Adapter flange for vacuum booster
- Filter pressure gauge
- Cooling air deflector
- G 2" exhaust connection flange
- Energy recuperation kit with heat exchanger
- Vacuum pump oils for all applications
- Oil level switch
- Temperature sensors
- Starter unit

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Pumping speed

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



Technical data			RD 0200 A	RD 0240 A	RD 0300 A	RD 0360 A
Nominal pumping speed	50 Hz / 60 Hz	m ³ /h	160 / 190	200 / 240	250 / 300	300 / 360
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	0.1*	0.1*	0.1*	0.1*
Nominal motor rating	50 Hz / 60 Hz	kW	3.0 / 4.2	4.0 / 4.2	5.5 / 6.6	5.5 / 6.6
Power consumption at 100 mbar	50 Hz / 60 Hz	kWh	2.9 / 3.8	3.5 / 4.0	4.6 / 5.6	5.1 / 6.3
Power consumption at ultimate pressure	50 Hz / 60 Hz	kWh	2.4 / 2.9	2.5 / 3.0	3.2 / 4.0	3.5 / 4.2
Nominal motor speed	50 Hz / 60 Hz	min ⁻¹	1500 / 1800	1500 / 1800	1500 / 1800	1500 / 1800
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	68 / 70	68 / 72	68 / 72	70 / 72
Oil capacity		l	7	7	7	7
Weight approx.**		kg	175	175	190	190
Dimensions (L x W x H)**		mm	815 x 510 x 410	815 x 510 x 410	990 x 530 x 410	990 x 530 x 410
Gas inlet			G 2"	G 2"	G 2"	G 2"

*with standard gas-ballast valve 0.5 mbar **values may vary slightly due to different motor versions