

R 5

Rotary Vane Vacuum Pumps RA 0165 - 0305 D



Robustness and reliability of operation are the outstanding properties of the R 5 rotary vane vacuum pumps.

The R 5 0165 - 0305 D series has been specially developed for applications in the rough vacuum sector. Thanks to the particularly high separating performance, these vacuum pumps guarantee oil-free exhaust under even the most difficult operating conditions.

Operationally reliable and cost-effective

The rotary vane technology has been continuously developed and optimised by Busch 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.

Application-oriented

The R 5 vacuum pumps are distinguished by high suction capacity even in low pressure ranges and therefore quick pump-down times. The heavy-duty vanes guarantee long operating times. This series has been specially developed for applications with varying operating vacuums and can be reliably used both in continuous operation at ultimate pressure and also in rough vacuum ranges.

The optimised internal oil separation guarantees clean exhaust in all operating conditions.

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.

The R 5 series includes many more models than described here. Specialised types of R 5 are available for certain applications such as pumping of very wet gases, vapours and explosive gases.



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



R5

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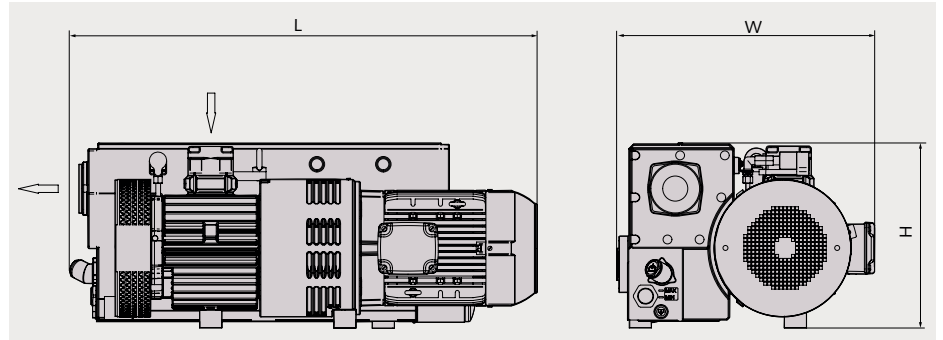
Technical specifications

The rotary vane technology enables a technically simple structure of the vacuum pumps. The consistently high vacuum level in continuous operation is guaranteed through circulating oil lubrication, perfectly coordinated materials and state-of-the-art and precise manufacturing. The standard oil separator ensures clean and oil-free exhaust thanks to its sophisticated extractor system with a large filter surface and integrated oil return. When fitted with a gas ballast valve (optional), even large amounts of vapour can be processed. A non-return valve in the inlet flange prevents air from flowing back into the vacuum chamber when the vacuum pump is switched off. The pump is driven by a directly flange-mounted standard electric motor, efficiency class IE2.

Accessories/technical options

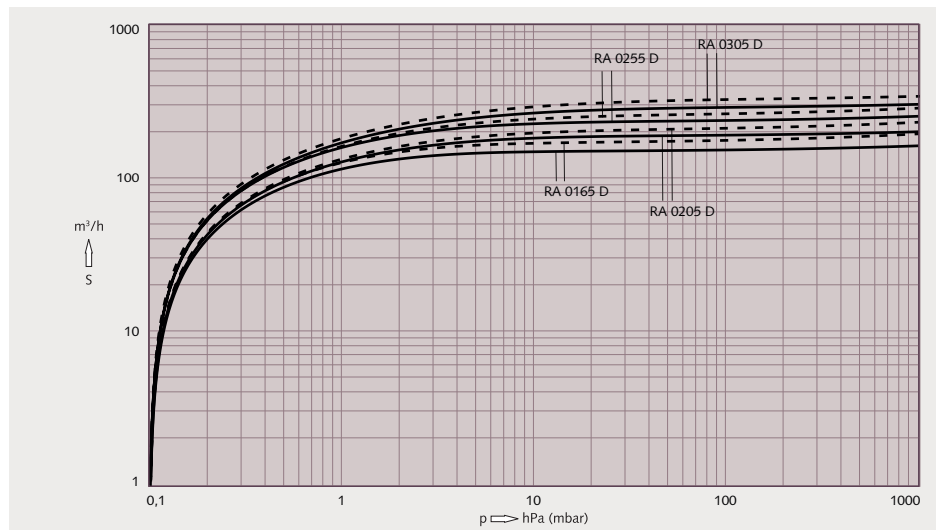
- Gas ballast valve
- Various inlet filters
- Filter pressure gauge
- Oil level switch
- Vacuum regulating unit
- Vacuum oils for all applications

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Pumping speed

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



Technical Data			RA 0165 D	RA 0205 D	RA 0255 D	RA 0305 D
Nominal pumping speed	50 Hz / 60 Hz	m ³ /h	160 / 190	200 / 230	250 / 285	300 / 340
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	0.1	0.1	0.1	0.1
Nominal motor rating	50 Hz / 60 Hz	kW	5.5 / 6.6	5.5 / 6.6	7.5 / 9.2	7.5 / 9.2
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)	70 / 72	72 / 74	72 / 74	74 / 76
Oil capacity		l	5.0	5.0	6.5	6.5
Weight approx.		kg	160	160	195	195
Dimensions	L x W x H	mm	977 x 583 x 418	977 x 583 x 418	1056 x 583 x 418	1057 x 583 x 418
Gas inlet / outlet		G	2" / 2"	2" / 2"	2" / 2"	2" / 2"

Busch Vacuum Kft.

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