R 5

Rotary Vane Vacuum Pumps
RA 0160 - 0302 D

Robustness and reliability of operation are the outstanding properties of the R 5 rotary vane vacuum pumps. These are some of the reasons why proven Busch 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.

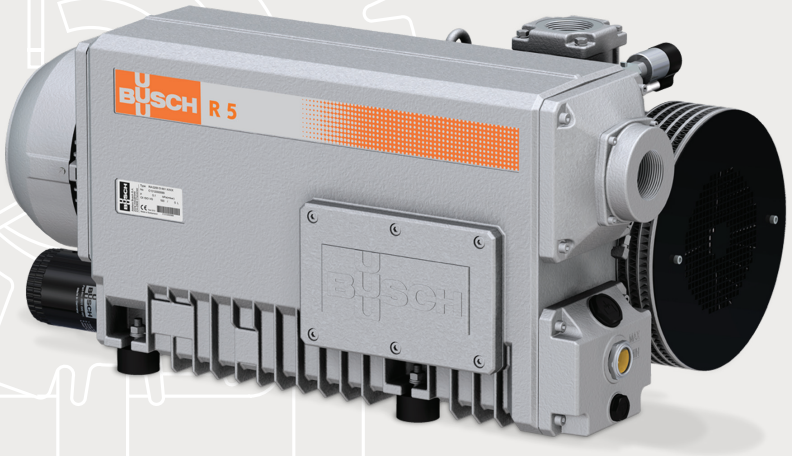
Operationally reliable and cost-effective
The rotary vane technology has been continuously developed and optimised by Busch for 50 years, with constant focus on both economy and reliability of operation. High efficiency and energy-efficient drive units are the positive results of this development. These vacuum pumps are fitted with heavy-duty carbon fibre composite vanes as standard. These Busch vanes have been developed for tough operation of R 5 vacuum pumps and are manufactured exclusively at our own plant. The highly efficient oil separators are also a special development, as they guarantee optimum oil separation of even the smallest oil particles from the exhaust.

This series is perfectly suited for continuous operation in low operating vacuum ranges such as in vacuum packaging. The compact type of construction enables the R 5 rotary vane vacuum pumps to easily fit into existing machines.

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 neccessary.

The R 5 series includes many more models than described here. Specialised types of R 5 are available for certain applications such as pumping oxygen.

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



R 5 RA 0250 D

R 5

Rotary Vane Vacuum Pumps
RA 0160 - 0302 D

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 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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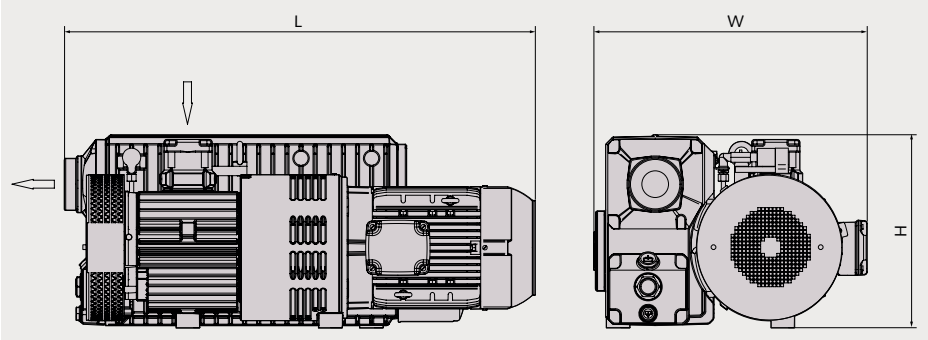
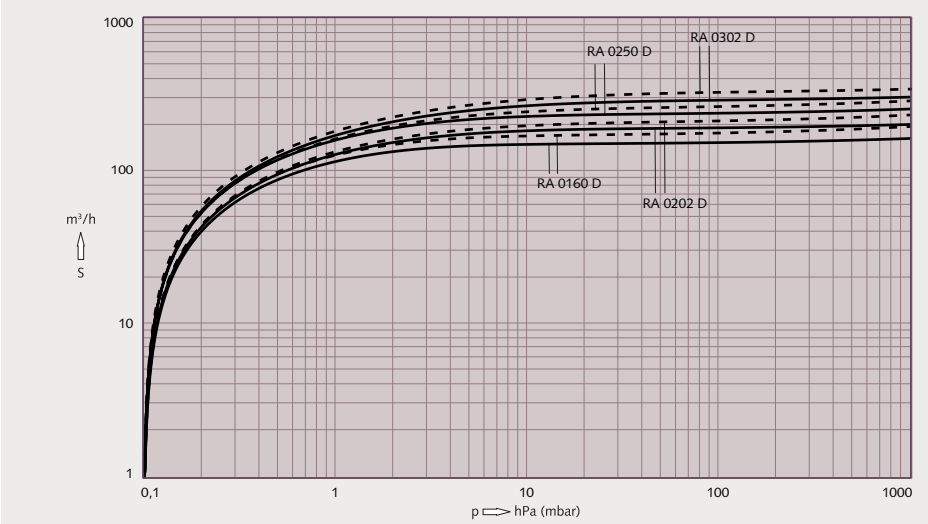


Pumping speed

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



Technical Data			RA 0160 D	RA 0202 D	RA 0250 D	RA 0302 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	4.0 / 6.6	4.0 / 6.6	5.5 / 9.2	7.5 (5.5)* / 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	140	140	190	190
Dimensions	L x W x H	mm	920 x 536 x 410	920 x 536 x 410	1000 x 581 x 410	1011 x 581 x 410
Gas inlet / outlet		G	2" / 2"	2" / 2"	2" / 2"	2" / 2"

* Only for vacuum packing and packing chambers with max. volume of 80 l (50 Hz)

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