

R 5

Rotary Vane Vacuum Pumps RA 0400–0630 B



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

Reliable and cost effective

The rotary vane technology has been continuously developed and optimized by Busch for over 50 years. With a focus on both economy and operational reliability, high-performing and energy-efficient drive units have resulted from this development.

Quality components and parts

Busch rotary vane vacuum pumps come standard with heavy-duty carbon fiber composite vanes. These vanes are built to handle tough operation and are manufactured only at Busch plants. The highly efficient oil separation for R 5 pumps provide optimum oil separation of even the smallest oil particles from the exhaust.

Easy to service

Maintenance can easily be carried out by the operator. Aside from regular maintenance checks and oil and filter changes, 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 it is used intermittently or around the clock, you can rely on the R 5.

The R 5 series includes many more models than described here. Specialized R 5 models are available for certain applications such as pumping very wet gases and vapors, or discharging oxygen or explosive gases.



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



R 5 RA 0630 C

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Technical specifications

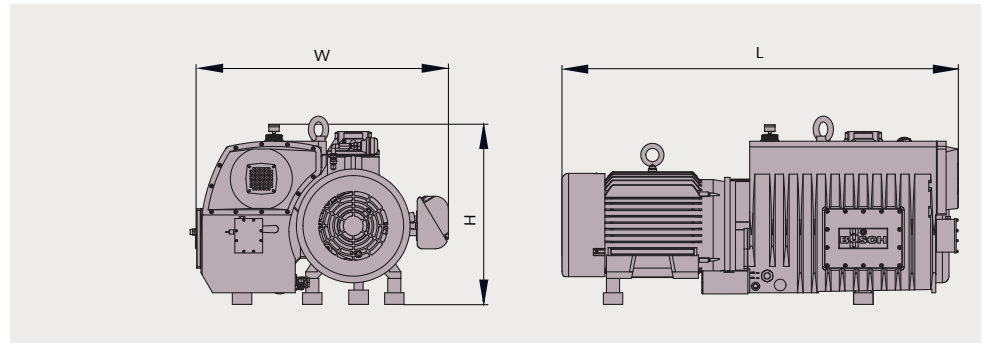
Simplicity of design, operational reliability and high quality are all key features of the rotary vane principle. The consistently high vacuum level in continuous operation is made possible with circulating oil lubrication, well-coordinated materials, and state-of-the-art precise manufacturing. The standard oil separator ensures clean and oil-free exhaust due to its sophisticated extractor system with an integrated oil return.

When fitted with a gas ballast valve (optional), even large amounts of vapor 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.

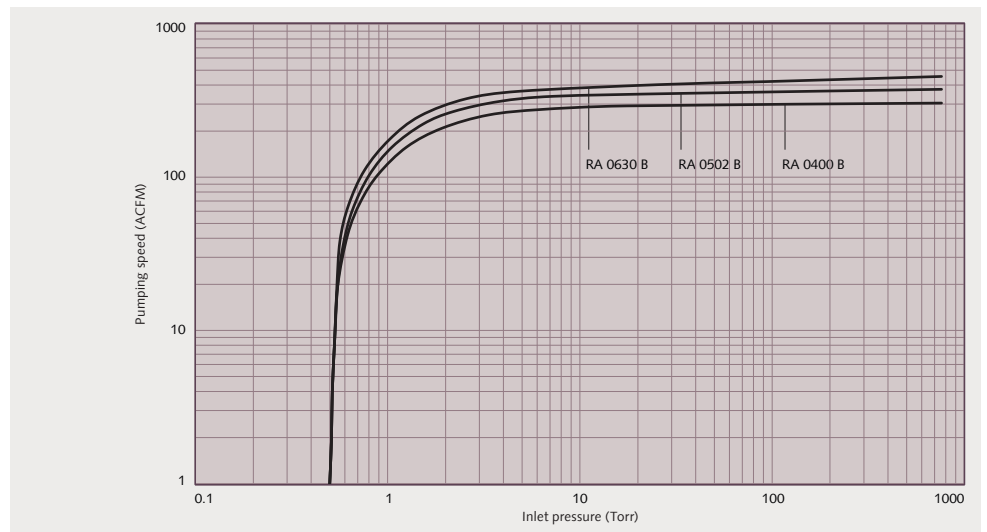
Accessories / Technical options

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

R5 RA 0400–0630 B



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



Technical Data		RA 0400 B	RA 0502 B	RA 0630 B
Max. pumping speed	ACFM	305	375	455
Ultimate pressure	Torr	0.5	0.5	0.5
Nominal motor rating	HP	15	20	25
Nominal motor speed	RPM	1150	1150	1150
Sound level (ISO 2151)	dB(A)	79	79	79
Oil capacity	Qts.	14	16	16
Approximate weight	Lbs.	1084	1285	1527
Dimensions (L x W x H)	inches	54 ⁹ / ₁₆ x 37 ³ / ₈ x 26 ¹ / ₂	64 ¹ / ₄ x 35 ⁵ / ₈ x 26 ¹ / ₂	69 ³ / ₈ x 38 ⁵ / ₈ x 26 ¹ / ₂
Gas inlet	NPT	3"	3"	3"

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%.

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Technical data is subject to change. Created in Germany. MG PL R5RA0400630B USenus 12/2016 3.0