

# R 5

## Rotary Vane Vacuum Pumps RB/RC 0021 C



### Robustness and reliability

are the outstanding characteristics of R 5 rotary vane vacuum pumps, 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 daily use worldwide.

### Operationally reliable and economical

Rotary vane technology has been continuously developed and optimised by Busch for 50 years, with a constant focus on both reliability and economy.

### Application-oriented

R 5 vacuum pumps are characterised by high pumping speeds - even in low pressure ranges - and consequently rapid evacuation times. They feature highly durable rotor vanes, ensuring long service life. The specifically designed exhaust filters provide excellent oil separation.

### Simple Maintenance

Maintenance can easily be carried out by the operator. Apart from oil changes and exhaust filter replacement at recommended intervals, no additional servicing is required.

R 5 rotary vane vacuum pumps are known throughout the industry for modern and energy-efficient vacuum generation in a wide range of applications – whether for intermittent or continuous use, you can rely on the R 5.

The R 5 series includes many more models than described here. Special versions of the R 5 are available for applications such as the extraction of saturated gases and vapours, oxygen and explosive gases.



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



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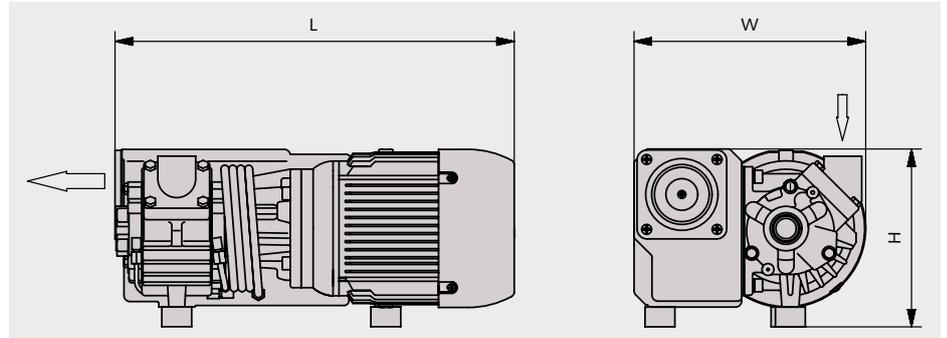
### Technical specifications

The rotary vane technology permits a technically simple vacuum pump design. The consistently high vacuum level in continuous operation is ensured by recirculating oil lubrication, perfectly coordinated materials and state-of-the-art precision manufacturing. An oil separator is included as standard equipment, ensuring clean and oil-free exhaust air by means of a sophisticated extractor system with an integrated oil return. When fitted with a gas-ballast valve (optional), even large quantities of vapour can be extracted. 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 highly efficient flange-mounted standard motor.

### Accessories/technical options

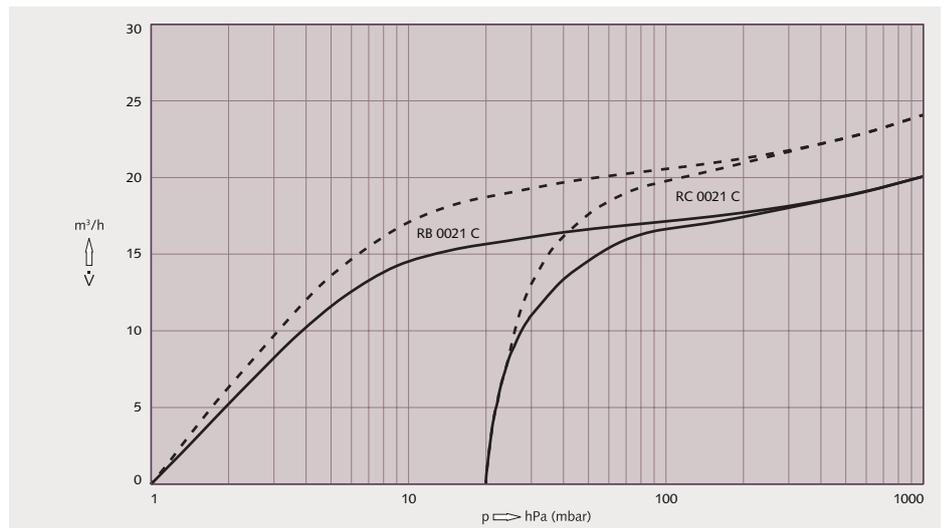
- Gas-ballast valve
- Various inlet filters
- Filter resistance pressure gauge
- Oil level switch
- Vacuum regulating unit
- Vacuum pump oils for all applications

### R5 RB/RC 0021 C



### Pumping speed

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



Technical Data		RB 0021 C		RC 0021 C	
Nominal pumping speed	50 Hz / 60 Hz	m³/h	20 / 24	20 / 24	
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	1.0	20.0	
Nominal motor rating	50 Hz / 60 Hz	kW	0.75 / 0.75	0.75 / 0.75	
Nominal motor speed	50 Hz / 60 Hz	min <sup>-1</sup>	3000 / 3600	3000 / 3600	
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	66 / 72	66 / 72	
Oil capacity		l	0.45	0.45	
Weight approx.		kg	20	20	
Dimensions	L x W x H	mm	401 x 229 x 180	401 x 229 x 180	
Gas inlet			G ½"	G ½"	

### Busch Vacuum Kft.

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Technical data is subject to change. Created in Germany 04/O