

# R 5

## Rotary Vane Vacuum Pumps RA 0025/0040 F



**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.

**Application-oriented**  
The R 5 vacuum pumps are distinguished by high suction capacity even in low pressure ranges and therefore quick pump-down times. Resilient rotor vanes guarantee long uptimes and the specifically designed air exhaust filters enable an excellent oil separation.

### 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 and vapours, or discharging of oxygen or explosive gases.



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



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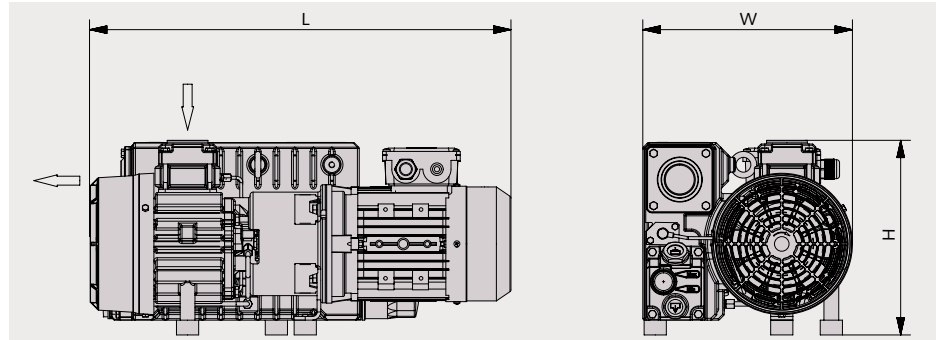
### Technical specifications

The rotary vane technology 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

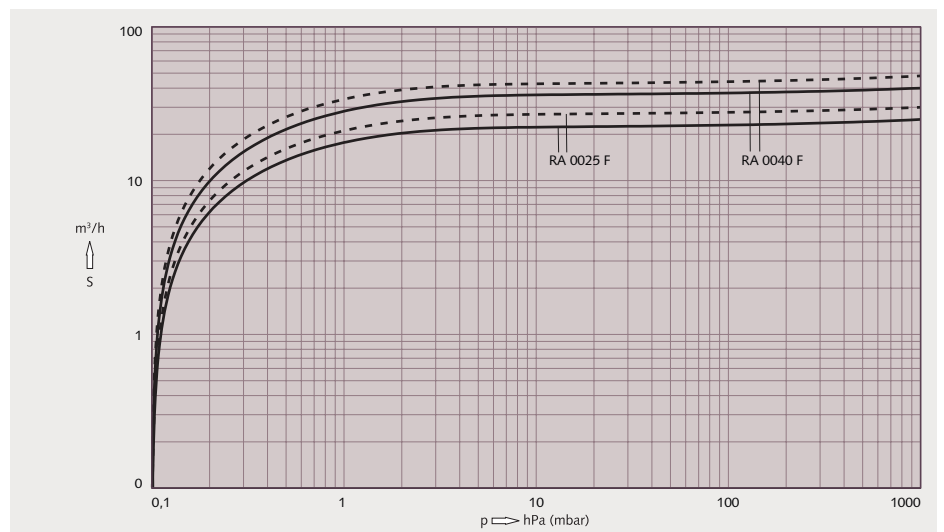
- Gas ballast valve
- Various inlet filters
- Filter pressure gauge
- Oil level switch
- Vacuum regulating unit
- Vacuum oils for all applications

### R5 RA 0025/0040 F



### Pumping speed

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



Technical Data		RA 0025 F		RA 0040 F	
Nominal pumping speed	50 Hz / 60 Hz	m <sup>3</sup> /h	25 / 30	40 / 48	
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	0.1	0.1	
Nominal motor rating	50 Hz / 60 Hz	kW	1.0 / 1.2	1.4 / 1.7	
Nominal motor speed	50 Hz / 60 Hz	min <sup>-1</sup>	1500 / 1800	1500 / 1800	
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	60 / 63	63 / 66	
Oil capacity		l	1	1	
Weight approx.		kg	36	42	
Dimensions	L x W x H	mm	585 x 284 x 263	625 x 284 x 263	
Gas inlet / outlet		G	1 ¼" / 1 ¼"	1 ¼" / 1 ¼"	

### Busch Vacuum Kft.

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Technical data is subject to change. Created in Germany 02/19