

R 5

Rotary Vane Vacuum Pump RA 0760 A PLUS



- › **Intelligent:**
variable speed drive, configurable automatic and manual operating modes, performance monitoring, local and remote control, ready for Industry 4.0
- › **Efficient:**
low energy consumption, minimized operating costs
- › **Reliable:**
proven performance
- › **Easy Servicing:**
extended maintenance intervals thanks to vacuum pump condition monitoring

The R 5 RA 0760 A PLUS belongs to the Busch product family of proven R 5 rotary vane vacuum pumps. As a fully integrated vacuum solution with advanced control and monitoring functionalities it is ready for Industry 4.0. All relevant parameters can be adjusted and monitored allowing a perfect match to every process. The 7.5-inch touch screen with intuitive menu navigation allows to fully control all functionalities of the R 5 RA 0760 A PLUS.

Its integrated variable speed drive allows motor frequencies from 35 to 60 Hz, which leads to energy savings of up to 50% compared to unregulated vacuum pumps. Different operating modes ensure that the R 5 RA 0760 A PLUS always runs in optimum operating conditions. In combination with the intelligent pressure control an automatic frequency adjustment with ECO mode and auto restart is possible, leading to further energy savings. Thanks to the week planner the operating times of the R 5 RA 0760 A PLUS can be programmed day by day.

Furthermore, the R 5 RA 0760 A PLUS features extra technical devices, which allow achieving the best possible energy efficiency.

For instance the pressure range, in which the integrated gas-ballast valve opens or closes can be precisely defined.

On the high-definition colour screen power consumption, oil temperature as well as inlet and outlet pressure curves can be displayed and therefore easily be supervised. In addition, oil level and motor frequency are always in view. The condition of the components, the event history and the running hours of the R 5 RA 0760 A PLUS are recorded permanently. The required maintenance interval can be adjusted and indicated accordingly, leading to reduced service costs. The maintenance routine is very easy and all the maintenance operations can be performed by opening two vertical panels. For all relevant parameters warning and alarm thresholds are predefined, so the safety of the process and of the vacuum pump is always guaranteed. The Modbus TCP/IP protocol allows integration into any standard process control system.

Whenever particularly quiet operation is essential, the R 5 RA 0760 A PLUS is the perfect solution thanks to its high efficiency acoustic enclosure, reducing the noise level significantly.

**R 5 PLUS – the intelligent solution
for applications of Industry 4.0.**



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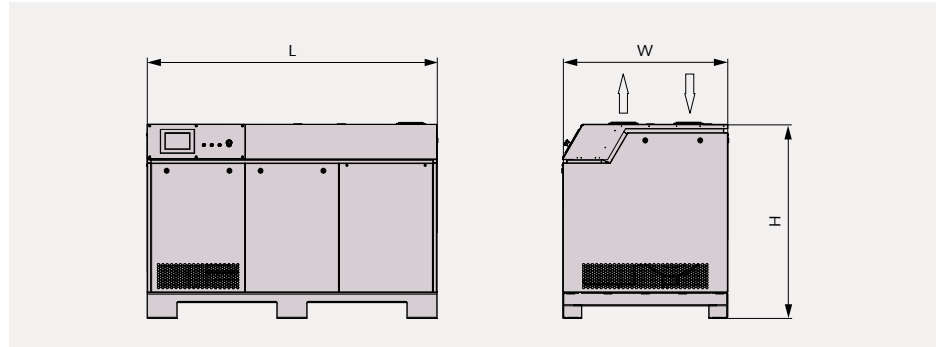
Technical specifications

Rotary vane technology is synonymous with a robust, functional construction. R 5 rotary vane vacuum pumps are characterized by an optimum design and perfectly synchronized components and materials. The constantly high vacuum level in continuous operation is ensured by recirculating oil lubrication and state-of-the-art precision manufacturing. A sophisticated oil separator ensures efficient use of oil. The integrated inlet filter protects the vacuum pump against contamination. The R 5 RA 0760 A PLUS comes with an integrated control and frequency converter as standard and is driven by a directly flange-mounted standard electric motor, with an efficiency class of IE3.

Accessories / Technical options

- Version without acoustic enclosure
- Energy Recuperation Kit with water heat exchanger

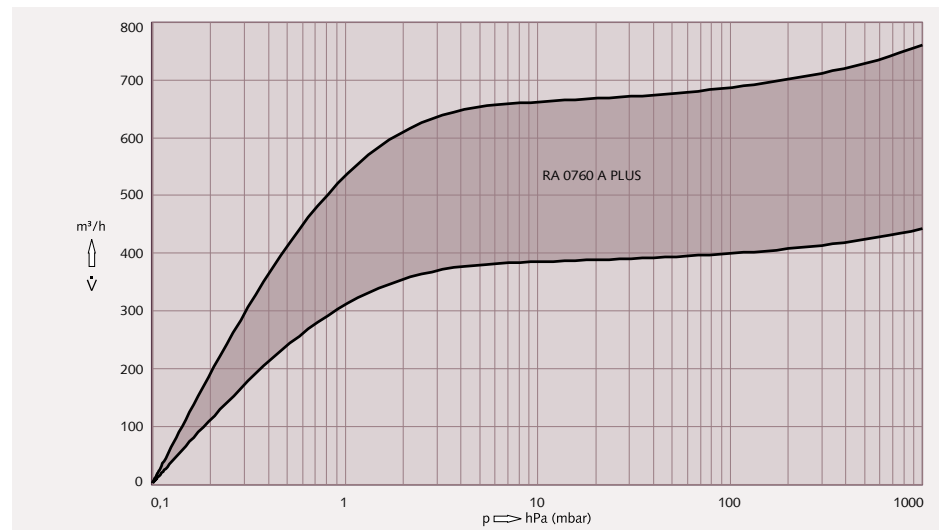
R 5 RA 0760 A PLUS



Pumping speed

Air at 20 °C. Tolerance: ± 10%

■ operating range



Technical data		RA 0760 A PLUS	
Nominal pumping speed	35 Hz–60 Hz	m³/h	440–760
Ultimate pressure (gas-ballast valve closed)	35 Hz–60 Hz	hPa (mbar)	0,1
Nominal motor rating	35 Hz–60 Hz	kW	max. 18.5
Nominal motor speed	35 Hz–60 Hz	min ⁻¹	700–1200
Power consumption at 100 mbar	35 Hz–60 Hz	kWh	8.2–14.5
Power consumption at ultimate pressure	35 Hz–60 Hz	kWh	4.6–7.9
Noise level (ISO 2151)	35 Hz–60 Hz	dB(A)	68–70
Oil capacity		l	17
Weight approx.		kg	1050
Dimensions (L x W x H)		mm	1855 x 1062 x 1268
Gas inlet / outlet			DN 80 PN 6 / DN 80 PN 6