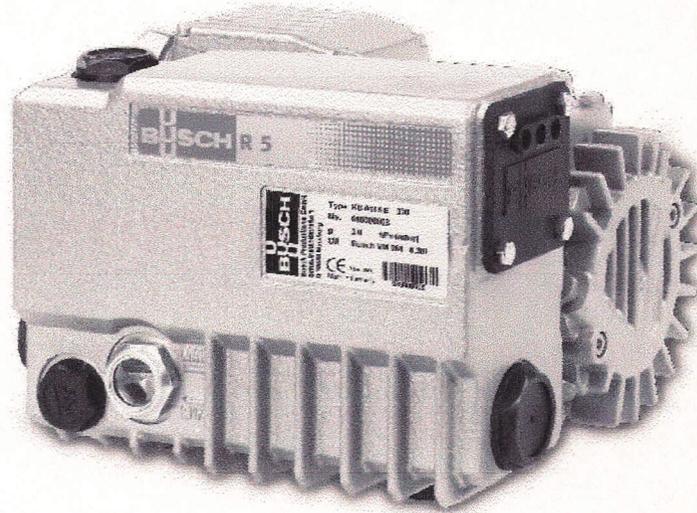


KB 0010-0016 E



KB 0016 E

Description

The KB range of R 5 rotary vane vacuum pumps are compact in design, high in efficiency and are available in a variety of sizes. These pumps are ideal for use in applications and machines where space is at a premium.

The KB is a reliable pump because of its sturdy design, proven rotary vane principle and high quality motor. The heavy duty non-return valve in the suction port prevents the vacuum chamber from venting through the pump after shutdown.

Features

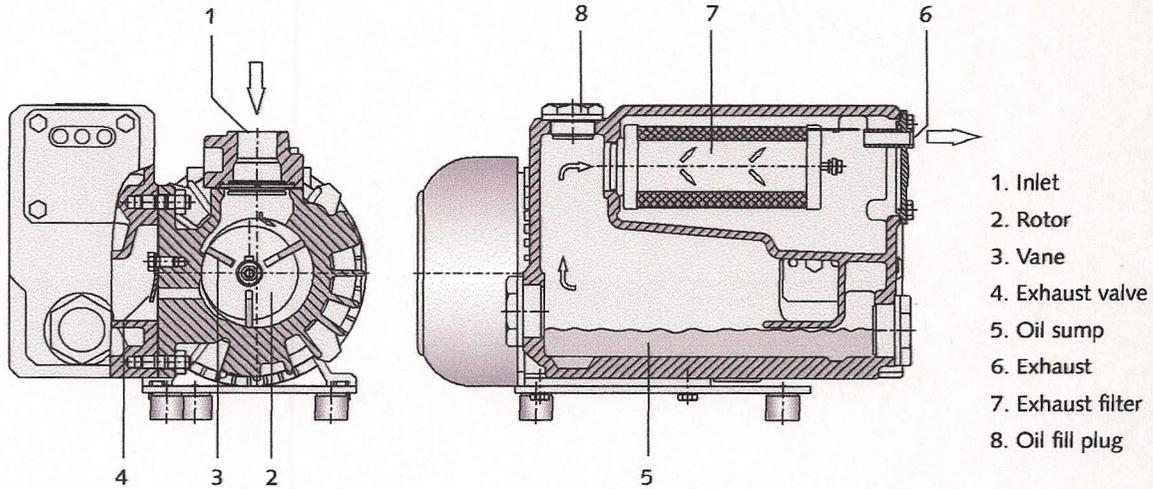
- Very compact, simple design for easy installation and low maintenance
- Air-cooled, requiring no water
- Direct drive, eliminating belts and gears to loosen or wear
- Oil mist eliminator for clean exhaust
- Quiet operation
- Oil supply and oil return line are integrated into the cylinder end plate

Accessories (Optional)

- **Gas ballast valve** to absorb gases containing water vapor.
- **Level switch** for the automatic checking of oil quantity within the oil mist separator.
- **Inlet filter** to protect the vacuum pump from ingress of solid and liquid particles. Different versions are available to suit all applications.
- **Filter pressure gauge** to screw into the oil fill cap for easy checking of the degree of plugging of the exhaust filter.
- **Motor safety switch** to protect pump against overload.
- **Vacuum regulating unit** to adjust the required working pressure.
- **Synthetic oil** in case of high thermal load of pump.

Rotary Vane Vacuum Pumps

Operating Principle



Operating Principle

These vacuum pumps work according to the rotary vane principle. An eccentrically installed rotor (2) rotates in the cylinder. The centrifugal force of the rotation pushes the vanes (3), which glide in slots in the rotor, toward the cylinder wall. The vanes separate the sickle-shaped space between rotor and cylinder into chambers. When the chambers are connected with the inlet port, gas is sucked in, compressed by the next rotation and pushed into the oil separator.

Differential pressure constantly causes oil to be returned into the pumping chamber. The oil and medium are then discharged into the oil mist separator. Oil is then separated from the exhaust air by gravity and the exhaust filter (7). Oil collects on the bottom of the oil separator and is passed into the pumping chamber again (oil re-circulation).

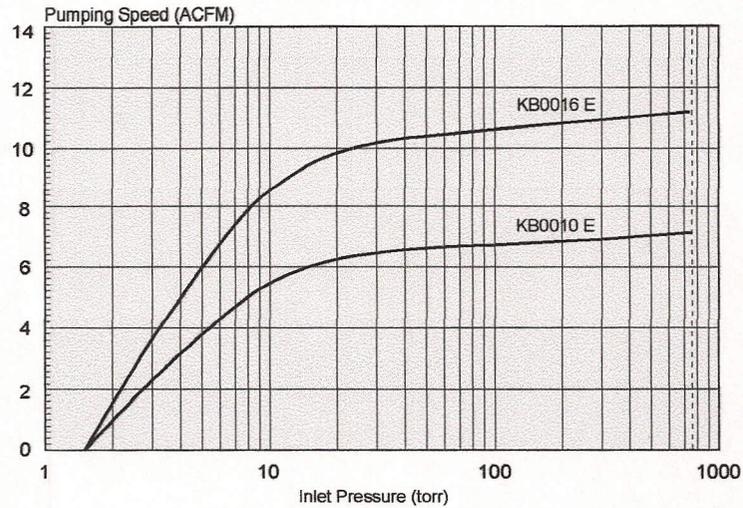
Applications

- Vacuum packaging
- Food technology
- Pneumatic conveying
- Transport and lifting systems
- Wood working
- Plastics industry
- Lasers



Technical Data

Pumping Speed vs. Inlet Pressure



Technical Data		KB 0010 E	KB 0016 E
Nominal pumping speed	ACFM	7.1	11.2
Ultimate pressure	Torr	1.5	1.5
Motor power	kW (Hp)	.37 (.5)	.55 (.75)
Nominal rotational speed	RPM	3600	3600
Sound level rating*	dB(A)	63	64
Weight (approx.)	Lbs.	35	40
Oil capacity (approx.)	Qts.	0.32	0.32

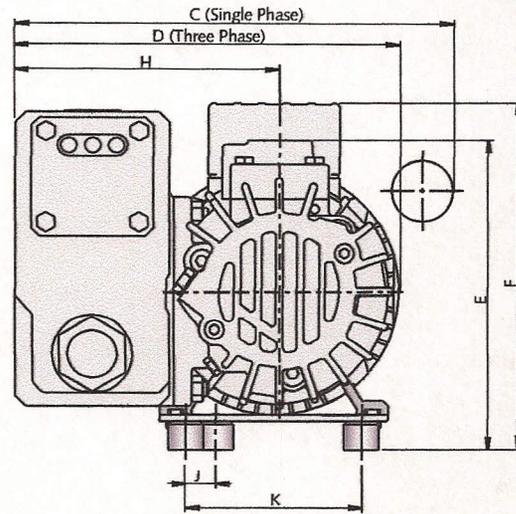
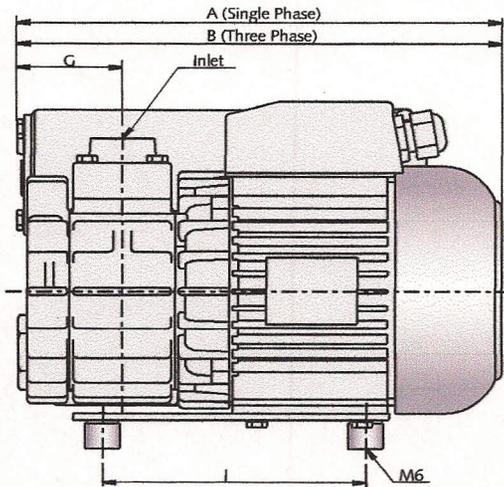
Performance data based on ambient conditions of 14.7 PSIA and 70° F, and have a tolerance of +/- 10%.

*DIN EN ISO 2151

Rotary Vane Vacuum Pumps



Dimensions



Dimensions	A	B	C	D	E	F	G	H	I	J	K	Inlet (FPT)
KB 0010 E	10 ⁷ / ₈	10 ¹¹ / ₁₆	10 ¹ / ₈	8 ² / ₁₆	7	7 ¹⁵ / ₁₆	2 ³ / ₈	5 ¹⁵ / ₁₆	5 ⁷ / ₈	11 ¹ / ₁₆	3 ¹⁵ / ₁₆	3/4
KB 0016 E	11 ⁷ / ₈	11 ⁷ / ₈	10 ¹⁵ / ₃₂	8 ² / ₁₆	7	7 ¹⁵ / ₁₆	2 ³ / ₈	5 ¹⁵ / ₁₆	5 ⁷ / ₈	11 ¹ / ₁₆	3 ¹⁵ / ₁₆	3/4

All dimensions in inches unless otherwise noted.



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Models and specifications are subject to change without notice

KB-2-3/09