

Atlas Copco expands its vacuum range with DB Side Channel Blowers

Dry, clean and oil-free

Köln, May 2023: Atlas Copco, the specialist for high-quality vacuum solutions, is expanding its comprehensive vacuum pump portfolio with the side channel blowers DB series. Based on an efficient operating principle, the vacuum is created by the kinetic energy of the rotating impeller. The impellers are connected to the motor shaft and enable suction of the pumped medium, which is accelerated in the side channel.

Suitable for rough processes

Side channel blowers are designed for applications where high flow rates are required. This makes the dry rough vacuum of the DB models suitable for rough industrial processes - such as drying, pneumatic conveying or suction processes. The modular design ensures high efficiency, reliable performance and quiet operation.

No emissions or contamination

Thanks to the dry, non-contact pumping principle, the exhaust air of the DB vacuum pumps cannot be contaminated; the vacuum is completely free of oil and dust, without any emissions or impurities. The models are equipped as standard with IE3 motors in eco-design and comply with cURus standards. This certification meets all safety requirements for the Canadian and American markets.

Optional single- or two-stage design

Depending on the required vacuum performance, Atlas Copco offers the DB series in single-stage and two-stage versions, optionally with one impeller or twin impellers each. The single-stage version release the pumped medium after it has gone through just one stage, while in the two-stage version it enters the second stage after the first one. Operation with twin impellers increases the blower's capacity. The two-stage version

achieves a higher vacuum level. The combination of both results in larger air flows and higher vacuum level with just one machine.

Regular maintenance reduces operating costs

Atlas Copco takes care of maintenance planning and regular servicing of the DB pumps, if required. "Our 'Preventive Care Plan' is tailored exactly to the pump's needs. Since the vacuum pumps are maintained using state-of-the-art technologies, we also achieve a high level of energy efficiency as a result," Carol Pignatelli, the responsible product manager at Atlas Copco, emphasises. Thus, regular maintenance ultimately helps to reduce operating costs and increase process productivity by minimising unplanned downtime.

The advantages of the DB series at a glance

- Non-contact, oil-free operating principle prevents oil and dust contamination.
- Suitable for global installations
- Wide range of voltages and frequencies available from 50 and 60 Hz
- Housed in closed aluminium enclosure
- Virtually maintenance free
- Low noise thanks to effective blade design.

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Atlas Copco Vacuum Technique

Great ideas accelerate innovation. At Atlas Copco Vacuum Technique we collaborate with our customers to turn industrial ideas into leading edge technology in vacuum and abatement solutions. Our passionate people, expertise and service bring sustainable value to industries everywhere. Atlas Copco is based in Stockholm, Sweden with customers in more than 180 countries and about 49 000 employees. Revenues of BSEK 141 in 2022.

At Atlas Copco **Industrial Vacuum**, we have revolutionized vacuum technology. Our state-of-the-art vacuum pumps and systems exemplify today's connected and digitalized industry. Our teams of exceptional and passionate people engineer customer-centric vacuum solutions that offer better energy efficiency, consumer safety, improved productivity and a sustainable future. Our products are the invisible force that drive all industrial applications and manufacturing and our division includes the Atlas Copco, Edwards and Leybold brands. We are headquartered in Cologne, Germany with production centers in Germany, France, Belgium, Czech Republic, the United States and China.

Captions:



DBD – Double Stage and single impeller



DBt - Twin impellers and single stage