

Compact fans from ebm-papst

Reliable cooling for medicines, blood and vaccines

Medical practices, pharmacies, blood banks, hospitals and laboratories require special refrigerators and freezers. Medicines, blood samples and vaccines are stored in them, so the demands in terms of constant temperature, quiet running and reliability are correspondingly high. DC axial compact fans from ebm-papst ensure reliable cooling in Kirsch Medical refrigerators and freezers.

At its facility in Willstätt-Sand in the southern German state of Baden-Württemberg, Kirsch Medical's workforce of 80 produce freezers and refrigerators for highly sensitive materials. The units' storage temperatures range from +5°C down to -41°C: Medicines are stored at +5°C, for example, and blood at +4°C, while plasma needs to be stored at a constant -32°C. The units are also used for storing the coronavirus vaccines in accordance with the specified temperature range.

Compact but powerful

The demands placed on the fans in refrigerators and freezers are high: they have to be both compact and powerful. ebm-papst fans ensure that air circulates evenly inside the unit. Given that they are installed in the units' air ducts, space is tight. Kirsch Medical uses shallow-design axial compact fans from the ebm-papst S-Panther series. Depending on the size of the recirculating-air freezers and refrigerators, one or two ebm-papst DC axial compact fans in sizes from 80 to 120 mm can be installed, achieving air performance of up to 205 m³/h.

Quiet and variable

As well as maximizing performance, minimizing noise is also key, as the units are often located in the immediate vicinity of workplaces, such as in nurses' rooms or laboratories. The DC compact fan feature thermal signaling and variable speed control.

Full control

Fail-safety is also key when storing medicines, vaccines or blood plasma. Kirsch uses server-based software for monitoring and documentation, logging all operating data so as to promptly detect malfunctions and generate alarm signals. ebm-papst's speed-monitored GreenIntelligence fans help: If they do not reach the required constant speed, they automatically trigger an alarm. That means the response to any emergency is rapid, and valuable materials are protected.

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Fig. 1: Compact and powerful Axial compact fans from ebm-papst's S-Panther series ensure uniform air distribution in refrigerators and freezers.

Fig. 1	ebm-papst
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About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen/Germany, is the world's leading manufacturer of fans and drives. Since the technology company was founded in 1963, it has continuously set the global industry standard with its core competences in motor technology, electronics, digitization and aerodynamics. With over 20,000 products in its portfolio, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive-engineering task.

In fiscal year 2020/21, the "hidden champion" generated revenues of € 2.129 billion. The group employs roughly 15,000 people at 29 production sites (in Germany, China and the USA, to name but a few) and in 51 sales offices worldwide. ebm-papst sets the benchmark with their fan and drive solutions which are used in almost all industries, such as ventilation, air conditioning and refrigeration, heating, automotive, information technology, mechanical engineering, household appliances, intralogistics and medical engineering.

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