



Reliable ventilation technology *for sensitive applications.*

Durable fans for medical and
laboratory technology you can rely on.

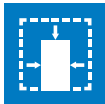
ebmpapst

engineering a better life

Top performance for **highest demands**



Robust, durable, and low-maintenance fans for reliable continuous operation



Compact designs: Integration into confined installation spaces without loss in performance or efficiency



Ultrasilent operation for user comfort and focused work



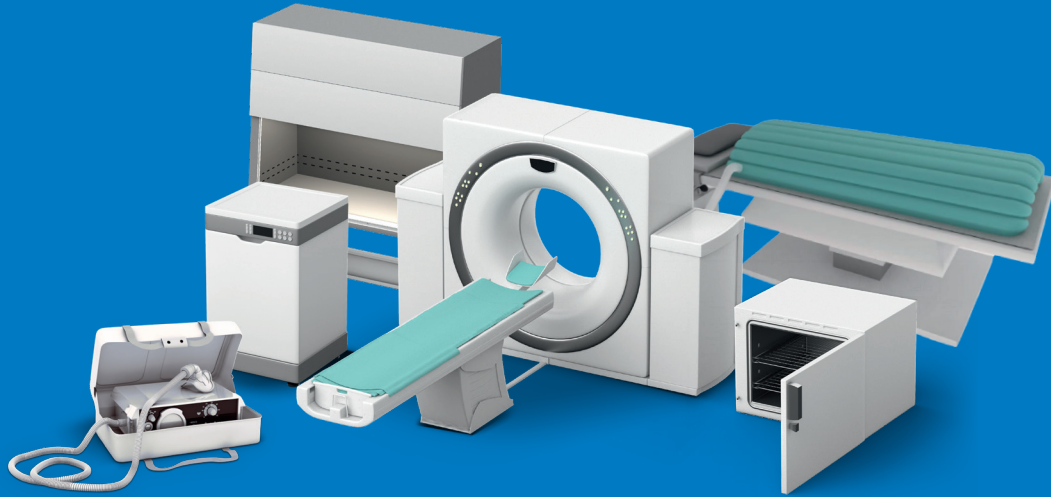
Low-vibration performance with optional vibration detection to avoid resonance conditions



Flexibly adaptable to your individual requirements



Certified according to the most stringent quality and safety standards



Precision, safety, and efficiency are key in medicine and diagnostics. *Our fans ensure the performance of highly sensitive medical and laboratory technology in continuous operation.*

With our broad portfolio, we cover the entire range of applications and meet the highest requirements. Should you require a more specialized solution, we will work with you to develop the perfect solution.

Tailor-made solutions *for every application*

Our products demonstrate their strengths wherever precision, reliability, and efficiency are required.

+ Pure air for the highest hygiene requirements, e.g., in surgery units

+ Optimal building ventilation for healthy rooms

+ Efficient cooling for medical chillers in exposed settings, p. 6

HOSPITAL



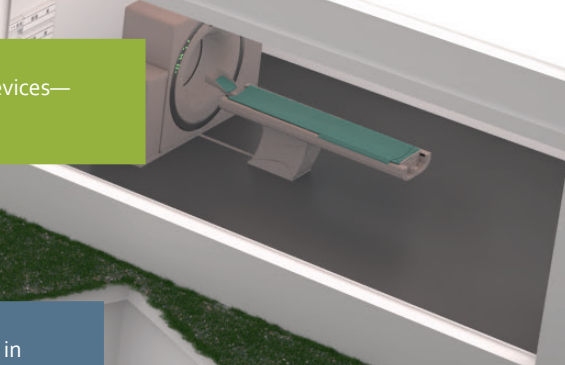
+ Compact fans for pressure relief and a comfortable bed climate, p. 9



+ Ultrasilent compact fans for uniform airflow in ventilators, p. 10



+ Optimal cooling of imaging diagnostic devices—even at high centrifugal forces, p. 7



+ Robust fans for demanding applications in laboratory ovens and drying cabinets, p. 9



+ Controlled air management for laboratory and biotechnology infrastructure, p. 8

+ Precise temperature control for laboratory measuring technology and analytical diagnostics, pp. 6 and 9



Perfect cooling *for imaging systems and diagnostic devices*

In diagnostics, every detail counts. Sensitive diagnostic technology must be protected to ensure razor-sharp images and precise laboratory results. Our fans cool precisely, efficiently, and with low vibration. This provides insights that both specialists and patients can rely on.

Precise temperature control for blood gas analyzers

Blood gas analyzers require stable temperature ranges in order to deliver reliable measurement results in the shortest possible time. Our fan solutions regulate these precisely. This protects the device sensors and increases service life.



4400F

Axial fan with high performance and extremely flat design.



AxiForce

Quiet axial fan with high efficiency, robust design, sizes 40–172 mm, and volume flows up to 650 m³/h (382 cfm).

Efficient support for medical chillers

Medical chillers are essential for temperature control in large imaging equipment, such as MRI systems. Our fans support the efficient heat dissipation of cooling systems and ensure a constant operating temperature for the entire system—even under demanding environmental conditions and high workloads.



AxiBlade.Perfrom

High-efficiency EC technology, low noise operation and smart connectivity combined in one modular platform. Versatile mounting options like on top, flat top, sucking side, pressure side, in both air flow directions.



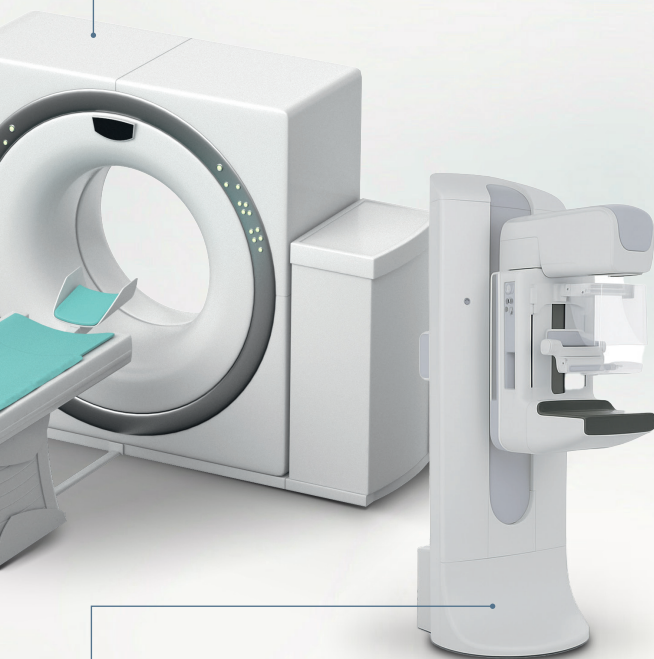
AxiBlade

Increased cooling capacity and up to 8 dB(A) lower noise emissions thanks to optimized flow technology, robust construction, and flexible configuration.



Concentrated strength for CT and MRI equipment

In computerized tomography and magnetic resonance imaging systems, all components operate under high thermal and mechanical stress. Our robust compact fans ensure constant cooling—even during continuous operation and at centrifugal forces of up to 70 g. Pleasantly quiet, for a comfortable patient experience and a peaceful working environment.



6300

Compact high-performance fan with long service life and reliability, as well as volume flows up to 1200 m³/h (725 cfm).



DV6300

Compact high-performance fan for high static pressures, as well volume flows up to 730 m³/h (430 cfm).



2200F

The powerhouse for high pressures and volume flows up to 1,220 m³/h (718 cfm).



AxiForce

Powerful axial fan with high efficiency in a compact design, sizes 40–172 mm, volume flows up to 650 m³/h (382 cfm).



RadiPac

High power density combined with low noise levels and outstanding energy efficiency. Comprehensive portfolio with volume flows of up to 20,000 m³/h and pressures of more than 2,000 Pa.



RadiCal in spiral housing

Smart plug-and-play centrifugal fan with high efficiency in a compact design and optional features such as constant volume control in sizes 133-225 mm and up to 500 watts.



RadiCal 2

Designed for high volume flows with low noise and energy consumption – thanks to innovative impeller geometry and proven EC motor concept.

Quiet operation for mammography devices

Since mammography is performed directly on the body, minimal noise is particularly important. Our compact fans provide exceptionally quiet cooling while ensuring reliable, high-resolution image quality.



250

Ultra-compact, quiet axial fan for air circulation in small housings.



400F

Ultra-compact fan that operates with exceptionally low noise.



AxiForce

Quiet axial fan with high efficiency, compact design, sizes 40–172 mm, and volume flows up to 650 m³/h (382 cfm).

Reliable continuous operation *in hospital and laboratory equipment*

Reliability is paramount in laboratories and clinics. Whether for sample preparation and storage or in healthcare, our fans ensure stable temperatures, quiet operation, and a long service life in a variety of applications. This makes everyday work easier and increases safety for people and analyses.

Precise ventilation for biological safety cabinets

Controlled airflow in safety cabinets protects samples and people from contamination. Our fans ensure stable pressure conditions and an even airflow for safe working in the laboratory.



RadiCal in spiral housing

Smart plug-and-play centrifugal fan with high efficiency in a compact design and optional features such as constant volume control in sizes 133-225 and up to 500 watts.



Dual inlet blowers

Maximum volume flows with minimal noise.



Centrifugal fan

Space-saving and extremely quiet centrifugal fan with volume flows up to 545 m³/h (320 cfm).



Air control and cooling for disinfection devices

In disinfection devices, our fans guide the airflow through the UV chamber, where germs, viruses, and bacteria are reliably eliminated. This ensures that even hard-to-reach areas are treated. They also cool the electronics, thereby increasing the service life of the device.



AxiForce

Adaptable axial fan with high efficiency in a compact design, sizes 40–172 mm and volume flows up to 650 m³/h (382 cfm).

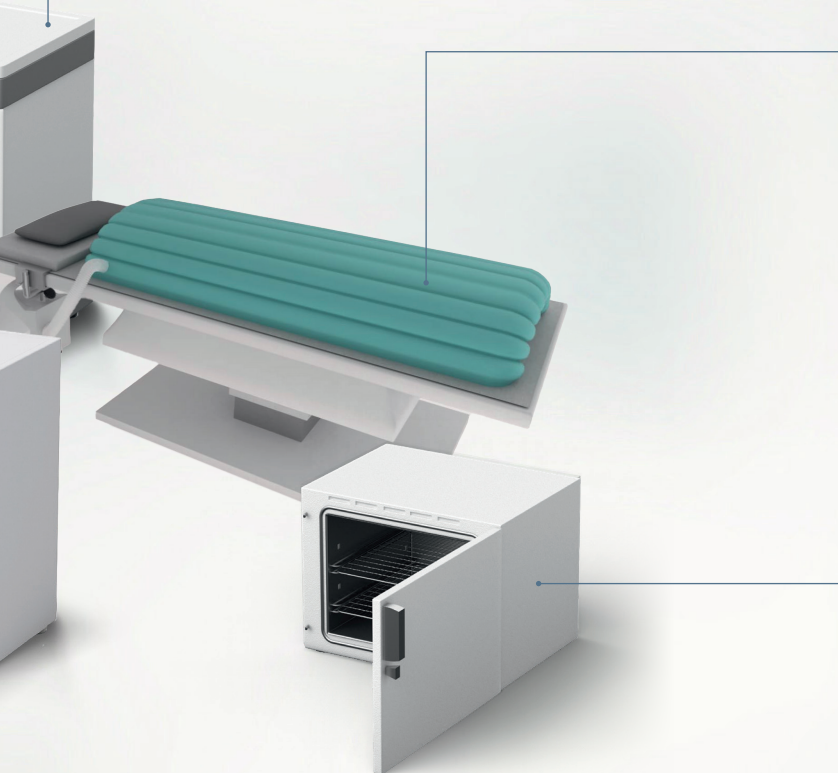
Powerful cooling for centrifuges

Extreme centrifugal forces in centrifuges place high mechanical stress on components. In addition, the frictional heat requires precise temperature control. Our robust, powerful compact fans efficiently dissipate heat, thereby supporting reliable sample analysis.



W1G200

Compact energy-saving fan as a ready-to-connect plug-and-play unit, prepared for the economical continuous use.



Temperature control for hospital beds and warming blankets

Comfortable temperature control is crucial in patient care. Our compact fan solutions ensure comfort and well-being in hospital beds and warming blankets – around the clock and super quietly.



RV45

High-performance centrifugal fan for particularly high demands in terms of running smoothness, reliability, and acoustics. The high nominal speed of 40,000 rpm enables dynamic power delivery in a compact design.



RLF100/RET97

Super compact centrifugal fans (height 1") for high demands on air performance, reliability, and noise with volume flows up to 80 m³/h (47 cfm).



AxiForce

Quiet axial fan with high efficiency, compact design, sizes 40–172 mm.

Resistant fans for drying cabinets and laboratory ovens

We combat high temperatures with particularly robust and durable fans. They are optimized for use in drying cabinets and laboratory ovens and ensure even air circulation under extreme conditions.



RadiCal 2

The RadiCal series stands for minimal energy consumption and optimum performance values. The series has been consistently improved for future-oriented applications.

As a radial module: Plug & play solution for optimum air performance with minimum noise levels.

With FlowGrid: The perfect solution for difficult, space-critical installation situations – with a noise reduction advantage of up to 2 dB.



AxiForce

Robust axial fan with high efficiency in a compact design, sizes 40–172 mm, volume flows up to 650 m³/h (382 cfm).



DiaForce

Reliable DC diagonal fan system without compromise, with an air flow rate of 680 m³/h (400 cfm) and over 2,000 Pa.

Diagonal fans

The low-noise fans combine the advantages of high volume flows of the axial series with the high pressure build-up of the centrifugal series.

Maximum safety for ventilators

To sustain life, ventilation technology must run reliably at all times. We developed our RV45 compact ventilator for this special application, which is particularly precise, quiet, and fail-safe. It ensures a stable and secure air supply in ventilators—in clinical use, emergency care, and private applications.

Quiet operation in CPAP and BiPAP devices

A quiet and steady airflow is crucial for the treatment of sleep apnea. Our fans fit into even the smallest devices, produce minimal noise, and guarantee a comfortable air supply for restful sleep and a better quality of life.



RV45

- Highly dynamic and efficient operation
- Lightweight rotor for highly dynamic operation
- Acceleration up to 100 rev/ms
- Suitable for BIPAP and AutoCPAP/APAP

Precise control for respirators

In intensive care or for chronic respiratory diseases, individually adjustable ventilation is essential. Both the RV45 and the RVE45 with integrated control electronics ensure precise control of airflow and pressure – safely and around the clock.



RV45

Integrated plug-in system. High-grade JST connector. Additional external operating electronics required for sensorless commutation: "RV45 power module"

Optional: Wire set available as adapter for own connection.

Rapid deployment in emergency ventilators

In emergency medicine, every second counts. Our fans for mobile ventilators are particularly robust, compact, and quick to deploy. They deliver top performance even under extreme conditions—in ambulances, in the field, or during disaster response operations.



RV45

See page 11



RVE45

Reliable DC centrifugal fan with control electronics for high performance (up to 36,500 rpm and 4,850 Pa) in the smallest of spaces and precisely controllable volume flows.



RLF35

A very small and compact centrifugal fan for high pressures and long service life.



RG90

The compact centrifugal fan with a robust design for demanding environmental conditions meets IP68 requirements.



Our Benchmark for ventilators: *the RV45*

Special requirements call for special solutions. Our compact RV45 centrifugal fan is precisely tailored to the needs of ventilators for sleep apnea therapy.

Its highly dynamic EC internal rotor motor supports flexible and safe breathing adjustment: It quickly switches between high inflation pressure for inhalation and significantly reduced pressure for exhalation. With speeds of up to 50,000 rpm, it delivers precise performance, sup-

ported by the low moment of inertia of the rotor. Vibration-damping materials and optimized aerodynamics ensure particularly quiet operation — and thanks to maintenance-free ball bearings, this remains the case for many years.

Other top performances:

Noise level only 49 dB(A) | up to 100 rpm | static pressure build-up over 5,000 Pa | weight only 135 g

original size



Key competencies

you can rely on

Reliable performance – even under extreme conditions

Whether in continuous operation in ventilators, high centrifugal forces in CT scanners, or use in safety-critical environments, our fans run stable and fail-safe. We test every fan under real conditions in our modern test centers. This ensures that your medical or laboratory technology remains ready for use at all times.



Highest quality for the well-being of people

When human lives are at stake, the highest standards apply. We ensure quality: from development and material selection through every stage of production to 100% inspection. Through continuous innovation and rigorous testing procedures, we set global benchmarks. The result: durable fans and blowers for the most demanding requirements in medical and laboratory technology.



Take a look at
our testing center:
mag.ebmpapst.com/erprobung



Find the right fan for every medical
and laboratory technology:
ebmpapst.com/medical

Quiet technology for sensitive applications

Noise causes illness, hinders recovery, and disrupts concentration. That is why we develop ventilators that operate quietly despite their high performance. Flow-optimized geometries and low-noise motors reduce vibrations and

operating noise. This ensures maximum comfort—whether sleeping with a CPAP or BiPAP ventilator, during imaging examinations, or when concentrating on work in the operating room.



Customized solutions for your applications

Every medical or laboratory device is unique. That's why we not only offer you a wide range of products, but also work with you to develop customized solutions that are precisely tailored to your application. From the initial idea to simulation and prototyping to series production, we support you with decades of experience and in-depth industry knowledge. The result: solutions that are technically impressive and economically viable.





**What *Engineering*
a better life means
to us.**

Who we are.

We lead air technology into the next generation: with innovative hardware and software solutions that are always more powerful, compact, efficient and sustainable than their predecessors. Over the years, this has made us the world's leading manufacturer for fans and drives and helps reduce the carbon footprint in our customers' applications.

Digitalization and the associated networking of intelligent components and systems play a central role for us. In this way, we create a holistic link between sustainability and digitalization and enable the responsible use of resources through intelligent solutions of the highest efficiency.

What drives us.

But our consistent pursuit of efficiency and progress has even deeper roots. After all, there is something that excites us even more than our market position. It is the deep awareness that, with our solutions **for medical technology**, we are making the lives of many people around the globe more pleasant, safer and thus better. Therefore, the central driving force in all our thoughts and actions is **Engineering a better life**. It is the reason why it is worthwhile for us to get up every day and do our best.

More about this at ebmpapst.com/aboutus

What you get out of it.

- 1. Technological edge.**
With our EC technology, we combine the highest energy efficiency with the advantages of IoT and digital networking.
- 2. Our sustainable approach.**
We take our responsibility seriously with energy-saving products, environmentally-friendly processes and through social engagement.
- 3. System expertise.**
As experts in advanced motor technology, electronics and aerodynamics, we provide perfect system solutions from a single source.
- 4. The ebm-papst spirit of invention.**
Over 800 engineers and technicians will develop a solution that precisely fits your needs.
- 5. Personal proximity to you.**
With numerous sales locations worldwide, we create a global presence that ensures fast response times. We always consider the complete process and put the customer at the center.
- 6. Our standard of quality.**
Our quality management is uncompromising, at every step and in every process.

Develop a new generation of reliable *medical and laboratory* technology with us:

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