

Fan Solutions

Electronically Commutated (EC) Centrifugal Fans



The Industry Leader in Air Movement Solutions

Quality, innovation, performance, customization, and speed to market are critical in today’s rapidly evolving IAQ and thermal management market. Demand is growing for fans that are energy-efficient and environmentally friendly. Sustainability is becoming a significant consideration for customers and businesses alike.

Many of the world’s leading IAQ/Thermal management solution manufacturers rely on Johnson Electric for EC fan solutions that satisfy these needs.

From air purification to data cooling, we provide high performing and quality fan technologies that enable innovative and dependable solutions for our customers. Our U.S.-based team custom-engineers state-of-the-art motor control, intelligent speed modulation, and integrated smart features. Allowing our EC fan customers to seamlessly adjust settings, monitor performance remotely, and optimize ventilation with ease.

We Make Three Million Actuators a Day — But That’s Not All

Johnson Electric is one of the world’s leading suppliers of motion products, including EC fans, micro-DC motors, piezo motors, solenoids, microswitches, and custom actuators specifically tailored for each unique application. You’ll also benefit from collaboration with a strong, experienced partner that can help you expedite innovation and create custom solutions that give you a competitive edge.



Motion Innovation

Johnson Electric began with the production and design of motor and motion products and continues to be the leading-edge of innovation to this day.



Engineering Expertise

From custom components to complete solutions, an Ohio-based engineering team is ready to put more than 500 years of collective experience to work for you.



High-Level Assembly (HLA)

We can design and manufacture your entire assembly — including fans, molded housings, flexible cables and PCBs with software solenoids, sensors, and cables — and provide fully tested units.



Domestic Partner, Global Footprint

Made in the U.S. and backed by facilities in 22 countries on four continents ensures shorter lead times, lower transportation costs, and domestic support.

If It Moves, We Can Help You Build It

Our Ohio-based engineering team has the largest portfolio of reliable motion solutions in the industry. We have the tools, resources, and expertise to modify or create customized units in-house. And it’s all backed by a stable, vertically integrated supply chain that enables short lead times and rapid prototyping. Just tell us what your project needs and we’ll develop a complete, fully tested solution.



An Extensive and Versatile Portfolio.

With 60+ years of ventilation experience, count on our EC fan products for applications such as:

- Air Purifier
- ERV/HRV
- Clean Room Technologies
- Datacenter Cooling
- HVAC
- E-Car Charger Cooling

Complete Solutions from One Global Partner

Whether it’s ventilation, cooling or air exchange, Johnson Electric can help you develop complete subassemblies that meet your exact specifications. Our diverse fan lineup adapts effortlessly to meet your specific needs.

Product Offers

Unmatched Energy Efficiency

By leveraging advanced Electronically Commutated (EC) motor technology, our fans deliver significant energy savings, reducing operational costs while contributing to a greener planet.

Superior Airflow and Silence

CFD and physical modeling expertise allows us to offer powerful and consistent airflow, ensuring optimal air circulation in any setting. Experience the tranquility of quiet operation, as our whisper-quiet fans bring a breath of fresh air without the noise.

Leading-edge Technology

At the forefront of innovation, our EC fans utilize state-of-the-art motor control, intelligent speed modulation, and integrated smart features.

Premium Build Quality

Crafted with precision, premium materials, and a zero PPM manufacturing standard, our EC fans are durable and reliable. You can trust our fans to deliver peak performance, day in and day out.

Versatility for Every Application

From residential homes to commercial buildings, our EC fans cater to a wide range of applications and capabilities.

Customization and Adaptability

We understand that every project is unique. That’s why we offer customizable solutions to perfectly align with your requirements, tailoring the fan specifications, sizes, and control options for a seamless fit into any ventilation system.

Speed to Market

Johnson Electric’s economy of scale, vertical integration and efficient manufacturing strategy minimize lead times. Ensuring you get product when you need it.



Optimize Designs with Precision and Agility

In airflow applications, Computational Fluid Dynamics (CFD) is used to simulate and analyze the behavior of airflows around various objects and structures.

Our CFD analysis provides detailed insight into fluid flow, heat transfer, and other critical metrics. Our advanced simulations provide you with a comprehensive understanding of how your products interact with their environment.

Make data-driven decisions with confidence.

Why Johnson Electric?

Johnson Electric traces its roots with an idea to bring motion to the world. 60 years later, is one of the world's leading suppliers of motion products.

Technological leadership, application expertise, and a global manufacturing footprint make Johnson Electric your ideal solution partner for differentiated product development projects and supply chain excellence.

High-Quality Components and Subsystems

- Proven-quality products enable fewer errors and faster results while reducing downtime and field maintenance
- Engineering support is available for custom motion solutions, rapid prototyping, testing, and more
- Dependable and responsive domestic supplier, local U.S. support
- Easy to integrate with design guidelines

Sustainability

- Johnson Electric engineers focus on developing products that consume fewer manufacturing resources, use less energy, and last longer
- Partner with suppliers to minimize environmental impact, carbon emissions, carbon footprint, resource use, waste, and pollution
- Road map to aggressive sustainability milestones in 2025 and 2030

Minimize Your Supply Chain Risk

- Largest portfolio of actuators and other components for all IAQ and thermal management applications
- Engineering, testing, and manufacturing support globally
- Standard parts in stock via vertically integrated distribution network, breadth of supply

Accuracy

- Optimal performance
- Continuous or on-demand device feedback

Compliance and Certifications

- ISO 9001: 2015 With Product Design
- ISO 14001: 2015
- ISO 13485: 2016
- ISO 17025: 2016
- FDA Registered Medtech Only
- IATF 16949: 2016 With Product Design
- UL, VDE, and CE Compliant
- REACH and RoHS Compliant



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