

Centrifugal Blowers Market Outlook 2026-2034: Market Share, and Growth Analysis By Type (Plate Evaporators, Shell and Tube Evaporators), By End-User (Pharmaceuticals, Chemicals, Food and Beverages, Pulp and Paper, Wastewater Treatment, Others)

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Abstracts

The Centrifugal Blowers Market is valued at USD 3.17 billion in 2025 and is projected to grow at a CAGR of 4.6% to reach USD 4.75 billion by 2034.

Centrifugal Blowers Market

The centrifugal blowers market covers single- and multistage machines across backward-curved, radial, forward-curved, plug, and high-pressure designs that move air and process gases for ventilation, combustion air, cooling, drying, aeration, dust collection, pneumatic conveying, and gas handling. End-uses span HVAC and cleanrooms, food & beverage and pharma, pulp & paper, cement and steel, chemicals and petrochemicals, power and FGD, wastewater treatment, mining, glass and ceramics, EV/battery plants, and data-center support systems. Current trends prioritize energy performance (high-efficiency impellers, tighter scroll tolerances, IE3/IE4/IE5 motors, and VFDs), acoustics (silencers, advanced housings, aero-optimized blades), and reliability (API/ATEX compliance, gas-tight seals, upgraded bearings, and condition-based maintenance). OEMs are deploying CFD and FEA to balance efficiency, stability, and surge margin, while digital twins and IIoT sensors monitor vibration, temperature, bearing health, and power draw to predict failures and quantify savings. Materials and finishes diversify: stainless and coated carbon steel for corrosives, FRP/dual-laminate for acids and brine, and spark-resistant constructions for hazardous areas. Competitive

dynamics pit global engineered-to-order players and regional fabricators against niche specialists in gas handling, low-noise, and hygienic designs; aftermarket services - field balancing, performance testing to AMCA/ISO standards, impeller rebuilds, and retrofit packages - are increasingly central to lifetime value. Key challenges include system-effect losses from poor ducting, rising energy prices, tightening noise limits, and the need to certify for hazardous environments. As plants decarbonize and automate, buyers favor blowers that deliver verified efficiency in the installed system, are easy to maintain, and come with outcome-linked service agreements.

Centrifugal Blowers Market Key Insights

Efficiency is the headline KPI. Backward-curved/high-efficiency impellers, smooth inlet cones, and precision scrolls paired with premium motors and VFDs cut kWh/CFM; AMCA-verified curves and on-site commissioning protect real-world gains.

Control beats oversizing. Variable-speed drives with pressure/flow loops outperform damper throttling, stabilizing operation away from surge and trimming part-load losses in HVAC, aeration, and process lines.

Acoustics drive specifications. Low-noise blades, casing liners, and reactive/absorptive silencers reduce dBA for occupational compliance; tonal noise mitigation is a differentiator in urban and indoor plants.

Reliability through design. API/ATEX-ready shafts and bearing systems, non-contact seals, and conservative L10 life targets minimize downtime; field-balance and alignment features speed turnarounds.

Corrosion and contamination control. Stainless, FRP, and coated builds, plus clean-design housings and drain/inspection ports, suit chemicals, coastal, and hygienic environments.

Digital lifecycle. IIoT packages log vibration, temperature, and power; analytics flag imbalance, misalignment, or bearing wear. Digital twins guide troubleshooting and validate retrofit ROI.

Process air and gas know-how. Gas-tight designs, purge/shaft sealing, and spark-resistant configurations win hazardous service (solvents, hydrogen, dust); documentation eases approvals.

Wastewater and sustainability. High-efficiency, VFD-controlled blowers optimize aeration energy - the largest WWTP load - supporting emissions and cost goals with duty/standby strategies.

Retrofit economics. Impeller upgrades, inlet boxes, flow-straighteners, and VFD kits lift legacy systems without full replacement; verified before/after data underpins payback cases.

Supply and service matter. Short lead times, regional spares, and trained field teams are decisive; standardized platforms with modular accessories simplify global rollouts.

Centrifugal Blowers Market Regional Analysis

North America

Industrial modernization, energy-efficiency mandates, and aging water infrastructure sustain upgrades to VFD-controlled, low-noise blowers with AMCA/ISO test documentation. Refineries, chemicals, pulp & paper, and data-center support systems demand reliability, API/ATEX where applicable, and strong aftermarket support. Retrofits emphasizing system-effect corrections and verified kWh savings gain traction with utilities and ESCOs.

Europe

Stringent Ecodesign and noise regulations push high-efficiency impellers, premium-efficiency motors, and acoustic packages. Chemicals, food & beverage, and pharmaceuticals prioritize hygienic, corrosion-resistant builds and validated performance. Wastewater utilities scale aeration optimization with advanced controls; decarbonization agendas favor lifecycle assessments and condition-based maintenance contracts.

Asia-Pacific

Industrial expansion across chemicals, metals, cement, EV/battery, and electronics drives volume. Municipal wastewater and air-quality investments boost medium-pressure aeration and dust-collection demand. Buyers balance cost and efficiency,

favoring local fabrication with global engineering, VFDs as standard, and fast lead times; coastal and humid climates accelerate corrosion-resistant materials.

Middle East & Africa

Refining, petrochemicals, power/water (including desalination), and mining require rugged, high-temperature, and sand/dust-tolerant blowers. Gas-handling, corrosion protection, and API/ATEX credentials are common. Utilities and industrial parks seek turnkey packages with commissioning, training, and remote diagnostics to manage skilled-labor constraints.

South & Central America

Mining, cement, pulp & paper, food processing, and municipal utilities underpin demand. Budget sensitivity favors durable, serviceable designs and retrofit kits delivering measurable energy savings. Regional distributors with spares and balancing services are decisive; robust sealing and coatings address humidity and airborne contaminants in coastal and tropical sites.

Centrifugal Blowers Market Segmentation

By Type

Plate Evaporators

Shell and Tube Evaporators

By End-User

Pharmaceuticals

Chemicals

Food and Beverages

Pulp and Paper

Wastewater Treatment

Others

Key Market players

Cincinnati Fan, Airmake Cooling Systems, Air Control Industries Ltd., Atlas Copco AB, Howden Group, Twin City Fan & Blower, Gardner Denver Holdings, Inc., Loren Cook Company, HSI Blower, Greenheck Fan Corporation, AirPro Fan & Blower Company, Zhejiang Shangfeng Fan Co., Ltd., Acme Engineering & Manufacturing Corporation, New York Blower Company, Continental Blower, LLC

Centrifugal Blowers Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Centrifugal Blowers Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Centrifugal Blowers market data and outlook to 2034

United States

Canada

Mexico

Europe — Centrifugal Blowers market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Centrifugal Blowers market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Centrifugal Blowers market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Centrifugal Blowers market data and outlook to 2034

Brazil

Argentina

Chile

Peru

* We can include data and analysis of additional countries on demand.

Research Methodology

This study combines primary inputs from industry experts across the Centrifugal Blowers value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Centrifugal Blowers industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Centrifugal Blowers Market Report

Global Centrifugal Blowers market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Centrifugal Blowers trade, costs, and supply chains

Centrifugal Blowers market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Centrifugal Blowers market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Centrifugal Blowers market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Centrifugal Blowers supply chain analysis

Centrifugal Blowers trade analysis, Centrifugal Blowers market price analysis, and Centrifugal Blowers supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Centrifugal Blowers market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

* The updated report will be delivered within 3 working days

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