WASTEWATER

inovair®
Geared Centrifugal Blowers

THE MOST **RELIABLE, COST EFFECTIVE AND EFFICIENT** BLOWERS

LOWEST TOTAL OWNERSHIP COST

Inovair's highly efficient and durable geared centrifugal blowers deliver the industry's lowest total ownership cost. The key is a high-efficiency design that is also affordable, thanks to the use of industry standard components to avoid unnecessary complexity and cost, as well as the company's 30+ years of experience designing and manufacturing compact blowers. **Inovair's** proven design approach also simplifies maintenance and produces extreme durability.

BABA-COMPLIANT, MADE IN THE USA

With documented energy savings as high as 45% relative to PD and multistage blowers, and without the electrical complexity and durability issues seen in high speed turbo blowers, **Inovair** offers a unique combination of high efficiency, reliability, and flexibility. Unlike some others, **Inovair blowers** and customers are supported by the advantages of a vertically integrated manufacturer, with **Inovair** controlling all elements of design, production, and service. All of these activities are performed 100% in the USA, at the company's headquarters in Kansas City.



BABA COMPLIANT · BUILT AMERICA BUY AMERICA

BABA-COMPLIANT BLOWERS
25-600 HP

MADE IN THE USA

14801 W 114th Terrace, Lenexa, KS 66215 913-469-7244 1-855-INOVAIR inovair.com

IM SERIES MACHINE LINEUP
25-600 HP



IO SERIES MACHINE LINEUP
25-100 HP



BEST-IN-CLASS EFFICIENCY & LOW MAINTENANCE COST

Inovair blowers deliver unmatched performance with efficiency advantages independently verified using the latest ASME PTC-13 testing standards. Designed for real-world wastewater applications, our technology responds seamlessly to fluctuating liquid levels and airflow demands, ensuring optimal performance at all times. Plus, Inovair systems integrate smoothly with other blower technologies, making it easy to upgrade, expand, or balance existing installations without disruption.

INTEGRATED CONTROL SYSTEM

IN-HOUSE UL CERTIFIED 508A PANEL SHOP

- Allen-Bradley PLC's
- Ethernet (TCP/IP Modbus) or hard wire capable
- Easy systems integration

LCP

- Mass airflow (SCFM) based control system
- Automatic temperature compensation
- Automatic pressure compensation for varying liquid levels

MCP

- Feedback-based flow control capable - D.O., ORP, etc.
- Balanced run time between multiple blowers
- Single point interface
- Lead-lag functionality
- Balancing valve control

INDUSTRY STANDARD COMPONENTS

- NEMA Standard Motor
- Allen Bradley PLC
- Off The Shelf Variable Frequency Drive

DURABLE DESIGN

- Indoor/Outdoor Installation
- Dirt/Dust Tolerant
- Start-Stop Capable
- Durable 20-year design life

OPERATING CAPACITY

- Flows up to 12,000 SCFM
- Up to 22 psi
- Capable of variable level applications



SCAN FOR MORE DATA

Learn more about the **Wastewater Product line** and how it is the most efficient and reliable forced-air blower for your application.

INOVAIR CASE STUDIES

*See **Inovairblowers.com** for additional information.*



37% ENERGY SAVINGS, IMPROVED RELIABILITY, OUTDOOR DURABILITY

Application: Aeration Basin
Flow: 3,600 SCFM **Pressure:** 9.5 PSIG
Description: Western Missouri wastewater plant documented 37% energy savings along with improvements in reliability (reductions in maintenance and unplanned downtime) by replacing its two 150 HP PD blowers (300 HP total) with Inovair's 200HP stacked IM series blowers.

"I have never run across a blower that I feel is as **bulletproof** and as **easy to maintain** as this one is,"
—B. KINKEL
Water Reclamation Lead Operator



WIDELY VARYING LIQUID LEVELS

Application: Digester Aeration
Flow: 400 - 1,200 SCFM **Pressure:** X - 9.9 PSIG
Description: A wastewater plant outside of Reno, NV sought out Inovair to provide a solution for their varying liquid level digester at 4,500-ft elevation. Inovair's efficiency, durability, compact footprint and ability to handle widely varying liquid levels were key reasons for choosing Inovair.



HIGHLY RELIABLE OPPERATION IN HARSH ENVIRONMENTS

Application: Lagoon Aeration
Flow: 2,000 SCFM **Pressure:** 6.5 PSIG
Description: A beef ranch in South Dakota needed a blower upgrade for their lagoon mixing and installed two Inovair IM-20 units. The plant is truly happy with their decision to utilize Inovair and is experiencing improved reliably and lower operating costs.



BETTER FLOW CONTROL AND EFFICIENCY WITH 25% LESS ENERGY

Application: Aeration Basin
Flow: 1,230 SCFM **Pressure:** 8.5 PSIG
Description: An Ohio plant was looking to replace their (3) 100 HP multi-stage blowers with more efficient blowers, with better flow control. Inovair provided (3) 75 HP IM series blowers with a master control panel. The higher efficiency blowers, along with the improved flow control provided a 25%+ energy savings.

"With **45% energy savings** over our previous multi-stage blowers, this project **pays for itself very quickly**"
—SCOTT MILLHOLLAND
Supervisor, Kill Creek Water Resource Recovery Facility



20,000+ START-STOP CYCLES

Application: Aeration and Digester Processes
Flow: 600-1,150 SCFM **Pressure:** 6.0 PSIG
Description: This project resulted in not only substantial energy savings and improved process control, but also significantly improved reliability. A unique aspect of the digester process was a high number of start/stop cycles. Now with over 20,000 start-stop cycles, this is a great example of Inovair's start-stop durability.



COMPETITIVE CAPITAL COST, HIGH EFFICIENCY, AND EASY INSTALLATION

Application: Aeration Basin
Flow: 2,000 SCFM **Pressure:** 7.0 PSIG
Description: The Inovair IM-30's competitive capital cost, high efficiency, and easy installation provided a wastewater treatment plant in Western Kentucky with the lowest cost of ownership. Inovairs proven stack configuration provided a seamless and efficient flow range (1150 -5250 SCFM) in a single footprint. This nearly 80% turndown coupled with Inovair's designed and built control system ensures smooth and efficient operation during all flow conditions.

ABOUT INOVAIR

Inovair designs and manufactures high-efficiency blowers and compressors in the USA, drawing on engineering expertise from F-35 fighter jet programs and record-setting drag racing. With operations based in Kansas, Inovair is vertically integrated—designing, machining, assembling, and supporting all products in-house. This structure ensures industry-leading availability, the fastest parts turnaround, and unmatched U.S.-based service and support. Customers also benefit from the highest quality and reliability, along with eligibility for American incentives and funding programs. By leveraging proven aerospace and motorsports learnings, Inovair delivers compact, efficient, and quiet solutions with integrated controls—providing superior performance and the lowest cost of ownership.

HIGHEST EFFICIENCIES

Inovair excels at aerodynamic design, achieving over 80% isentropic efficiency for the life of the blower. This delivers 10–45% energy savings compared to multi-stage or PD blowers, confirmed by real-world case studies and ASME PTC 13 testing.

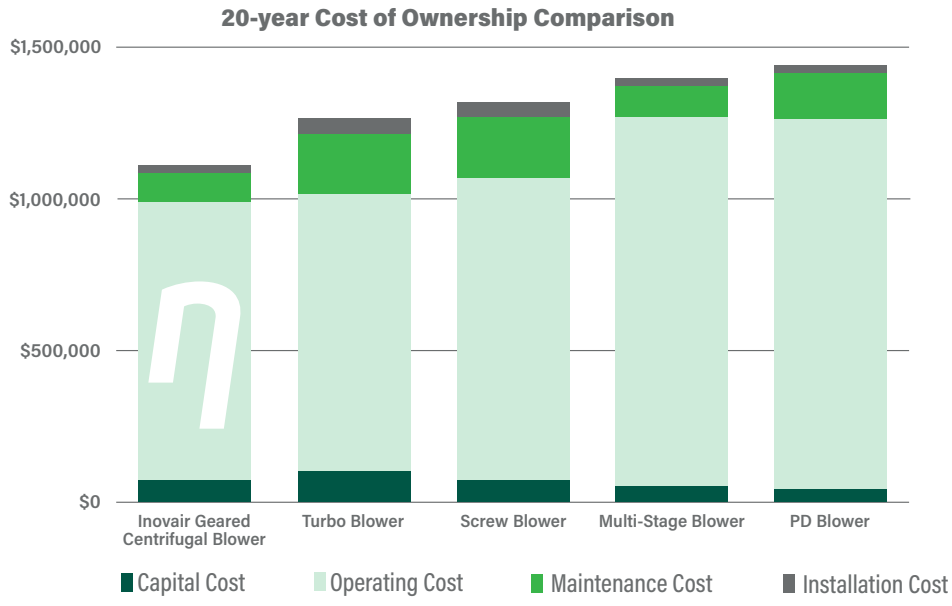
LOW MAINTENANCE

Inovair products are designed for quick, in-field maintenance by operators, with tasks supported by online videos. Engineered for minimal effort and cost, they deliver the lowest total cost of ownership over their service life.

MINIMAL DOWNTIME

Inovair offers proven durability backed by industry-leading support from its Kansas City headquarters. Vertical integration and close team collaboration ensure fast responses and effective solutions when issues arise.

LOWEST COST OF OWNERSHIP



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MADE IN THE USA

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