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Sanitaire® MAX Series Turbo Blowers

Efficient high-speed blowers for
medium to high airflows



SANITAIRE
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High-efficiency aeration. Simplified operation. Proven reliability.

Designed for demanding wastewater treatment applications, the Sanitaire® MAX series turbo blower is a high-efficiency, oil-free, direct-drive blower that delivers reliable airflow while reducing energy consumption, noise and maintenance requirements, and operating costs.

Engineered with advanced centrifugal blower technology and a high-speed permanent magnet synchronous motor (PMSM), Sanitaire turbo blowers provide smooth, quiet performance across a wide operating range, helping treatment facilities optimize aeration while maximizing long-term value.

Advanced direct-drive technology

At the heart of every Sanitaire turbo blower is a high-speed permanent magnet synchronous motor (PMSM) providing high efficiency at varying loads with no slip or mechanical losses. The impeller is also mounted directly to the motor shaft, eliminating zero transmission losses, improving reliability.

Unlike conventional belt or gear driven systems, the direct-drive design eliminates transmission losses, minimizes mechanical wear, and improves overall system reliability.



Built for reliability

Sanitaire turbo blowers are factory-assembled, factory-tested according to ISO22484 or PTC13, and ready for operation upon delivery.

Key benefits

- High-efficiency oil-free operation
- No belts, gears, or lubrication systems
- Reduced energy consumption
- Lower maintenance requirements
- Quiet, low-vibration performance
- Low noise levels
- Reliable long-term operation



High performance that maximizes value

With airflow capacities from 175 cfm to 23,500 cfm, Sanitaire turbo blowers are designed to support the aeration requirements of small and large wastewater treatment achieve optimal process performance while reducing energy consumption and operating costs.

Sanitaire turbo blowers deliver a powerful combination of performance, efficiency, and long-term reliability, helping wastewater treatment plant operators optimize airflow control while reducing complexity and maintenance concerns.

Designed to reduce operational complexity while improving performance, every blower is manufactured to provide dependable operation across a wide range of pressure and flow conditions. The result is a blower solution that supports easier operation, improved system confidence, and exceptional lifecycle value.

Installation advantages

- No concrete foundation required
- Adjustable leveling feet for simplified setup
- Standard IP51 for louver type and IP52 for flanged inlet type
- Optional IP54 outdoor enclosure (stainless-steel enclosure)
- UL compliant design
- Manufactured to ISO 9000 and ISO 14000 standards
- Optional hot-climate configuration for ambient temperatures up to 130°F

Integrated performance and control

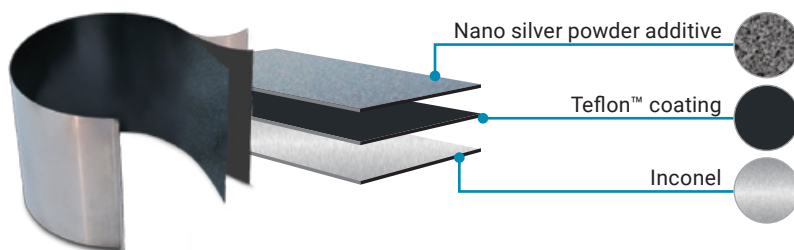
Built-in variable frequency drive (VFD) for a wide operating range across pressure and flow conditions, with an integrated flow meter ($\pm 3\%$ accuracy), optional alarms, 7" full-color touchscreen, and PLC based controls.

Quiet, efficient operation

Noise levels range from 63–85 dB(A), depending on model and insulation configuration, with testing conducted in accordance with ISO 2151 standards.

Superior bearing technology

Bi-directional airfoil bearing featuring a Nano Silver Triple Treatment Bearing (NSTB+) coating providing unmatched durability, high cycle reliability for PMSM applications, and a service life of 15+ years under normal operating conditions.



Bi-directional bearing

- Long life span
- 55,000–100,000 starts and stops
- Reversible rotation

Technical specifications

Motor

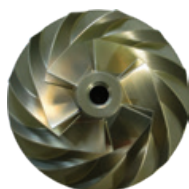
- High-speed PMSM motor with class H insulation
- Voltage 480 VAC, 50–60 Hz, 3-phase
- 10–1,000 HP (7.5–746 kW)
- Protective ground (3P + G)
- Titanium motor shaft



High-speed permanent magnet synchronous motor (PMSM)

Impeller

- Solid forged aluminum alloy (Al7075-T6)
- Precision 5-axis CNC machined
- Anodized protective coating



5-axis, CNC-milled aluminum alloy impeller with an anodized coating

Controls

- Danfoss Vacon® or ABB VFD
- Allen Bradley (800 Series) PLC
- 7" full-color touchscreen
- Communication options: Modbus RTU, Modbus TCP, Ethernet/IP, 4-20 mA along with optional Profibus DP or ProfiNET



Enclosure

- Powder-coated steel (Louver IP51, Flanges IP52 rating)
- Optional stainless-steel outdoor enclosure (IP54 rating)
- Optional hot-climate configuration up to 130°F

Additional features

- Built-in air filters
- Bellmouth flow meter ($\pm 3\%$ accuracy)
- Blow-off valve



Easy air filter replacement

Optional accessories

- Discharge silencer, suction silencer (if flanged inlet used), check valve, expansion joint

Certifications and compliance

- UL compliant
- Manufactured to ISO 9000 and ISO 14000 standards
- Performance testing standards: PTC13 or ISO 22484

Exceptional user experience, built in

- Simple installation with no special foundations or time-consuming alignment required
- Modular design with a compact footprint and convenient access points
- Quiet operation
- Vibration-free performance
- Oil-free lubrication with minimal maintenance requirements

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