



Smart Aeration
Solutions

Join us in the Energy Saving Revolution.



 **Sprintex**

G15 Turbo Blower Series

Smart Pulse Aeration (SPA™) Technology



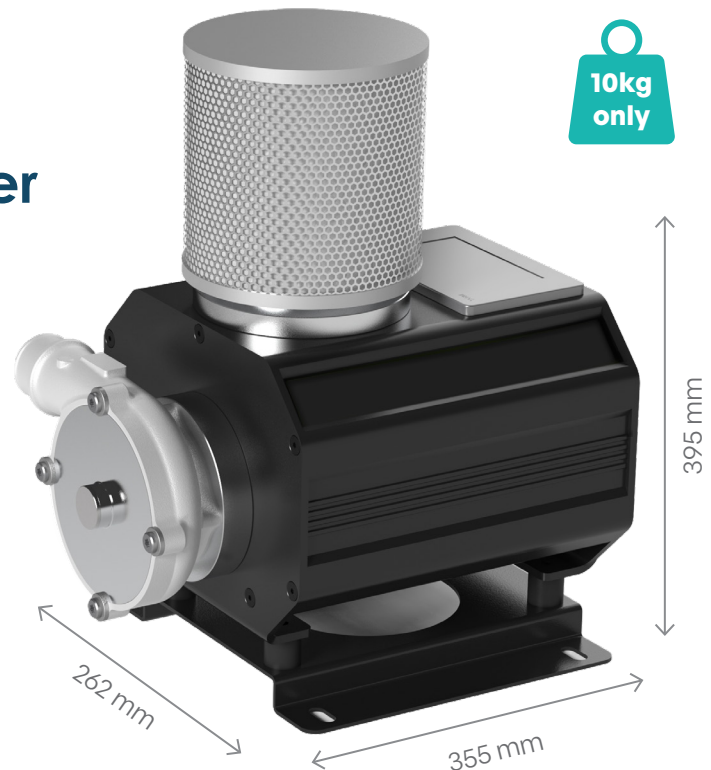
G15 Turbo blower Series

G15 - 3.5kW - 50kPa

G15 - 4.0kW - 40kPa

G15 - 5.5kW - 50kPa

*Multiple configurations available



Smart Aeration Solutions Benefits

- **Energy Efficiency:** The G15 Turbo blower delivers over **50% energy savings** vs existing industry blowers.
- **Intelligent Control:** Features an integrated touchscreen for autonomous, smart operation, enhancing system management and efficiency.
- **Quiet Operation:** Remarkably quiet, bid farewell to unbearable noise & create a more pleasant work environment.
- **Durability and Easy-maintenance:** Offers an impressive **two year maintenance-free period**. Self-service in with a quick, 10-minute self service option available through the SAS maintenance kit.

Applications

Our solutions are aimed at multiple applications where clean and pressurized air is required to improve your facility or process to a more efficient level.



Wastewater Treatment



Fishery Aquaculture



Food and Pharmaceutical Industry



Textile Printing and Dyeing Industry



Yeast Fermentation Industry



Electronics Industry



General clean air supply for productions

Slash Energy Costs

Annual Running cost in Wastewater Treatment



based on RRP,
USD\$ 0.18 per kw/h energy pricing



\$15,935.70
Side Channel
Blower



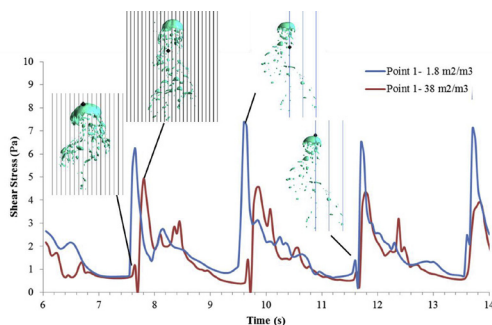
\$11,935.77
Root Style
Blower

Pays for itself
in 6 months



\$6807.80
Sprintex G15

Our G15 Turbo Blower, with SPA Technology and a high-efficiency convertor, redefines industry standards, offering a 75% efficiency advantage over Roots Blowers and 100% over Side Channel Blowers. The G-series represent a blend of environmental foresight and pioneering design, subtly crafted to meet our vision for sustainability and innovation.



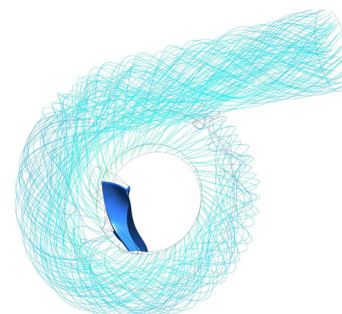
Smart Pulse Aeration Technology

Smart Pulse Aeration (SPA) Technology harnesses variable speed and precise flow rate control to generate intermittent bursts of fine bubbles. This method enhances Oxygen Transfer Rates while also achieving up to a 30% reduction in energy consumption for water aeration processes.



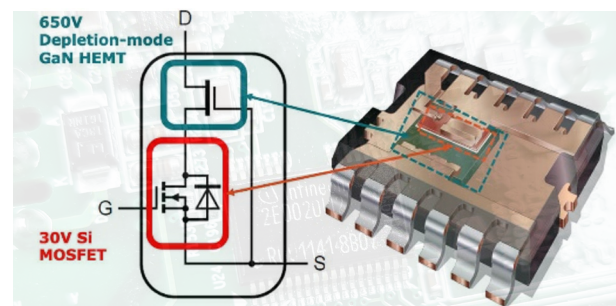
Patented Flat Wire Motor

Our patented flat wire motor utilizes cutting-edge electromagnetic technology to minimize stator heat loss, ensuring sustained motor performance with no derating over extended operational periods.



80,000 rpm Impeller

Our 80,000 rpm impeller has been rigorously optimized through simulation and validated by the UK's foremost fluid dynamics team. This innovation delivers a significant 10% boost in efficiency over conventional centrifugal impellers, with a peak isentropic efficiency surpassing 82%.



Cutting Edge Converter

Our advanced true-sinewave convertor, powered by the latest high-frequency GaN power electronics, attains an efficiency exceeding 96% and a power factor beyond 98%, ensuring exceptional thermal management in every 500-microsecond cycle.

Intelligent Operation Mastery

The G15 is equipped with an integrated HMI, bolstered by pressure and temperature sensors, enabling sophisticated Anti-Surge Control and PLC Multi-Mode Operation. This integration elevates the blower to a new level of intelligence, allowing for automated operation and versatility across diverse operational requirements.



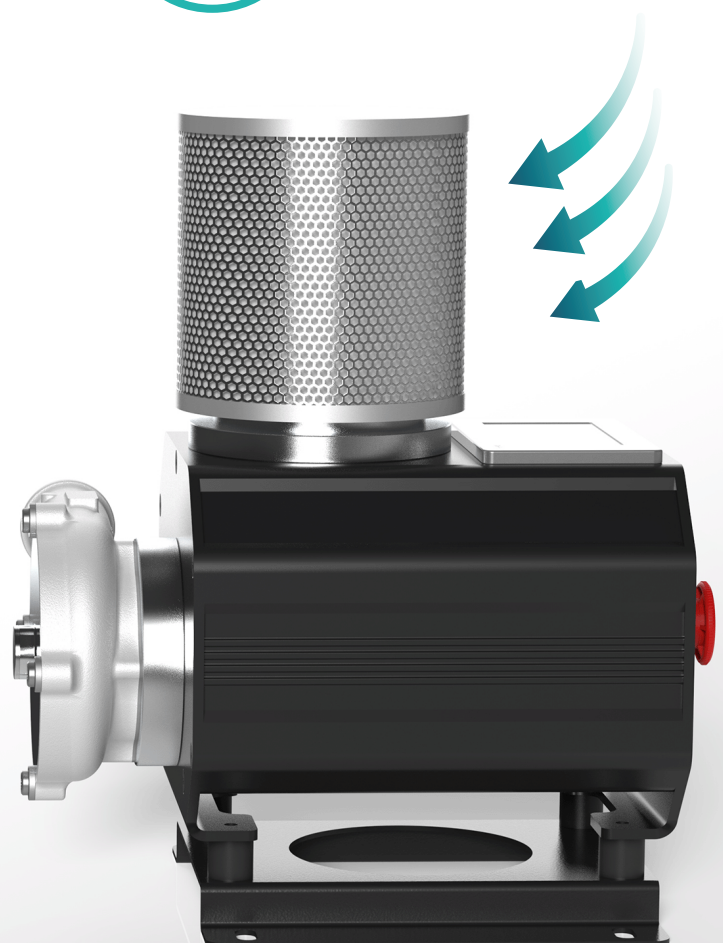
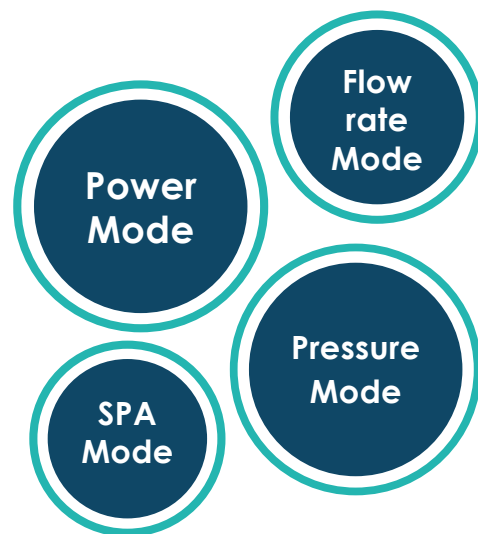
Surge Protection Monitoring

The operating of the turbo blower is monitored at all times by temperature, pressure, speed, electrical current and voltage sensors, to prevent surge or choke events due to unexpected changes in operating conditions

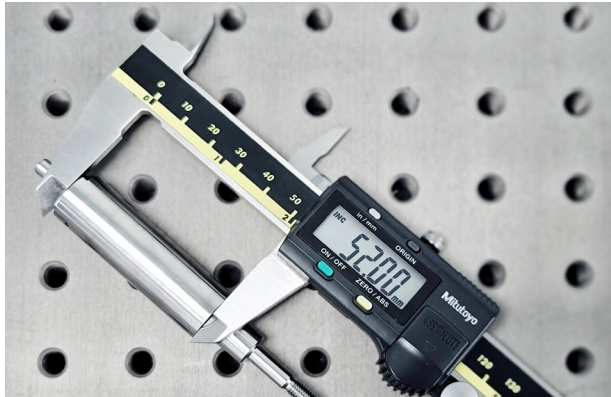


Adaptive Control Interface

The G15 offers a PLC Multi-mode Control system, granting users the flexibility to choose from various control modes to match the required power level, flow rate, or pressure. Accessible through a touch-screen HMI or an optional mobile phone remote control, this system also allows for vigilant monitoring and recording of operational data and the blower's health status.

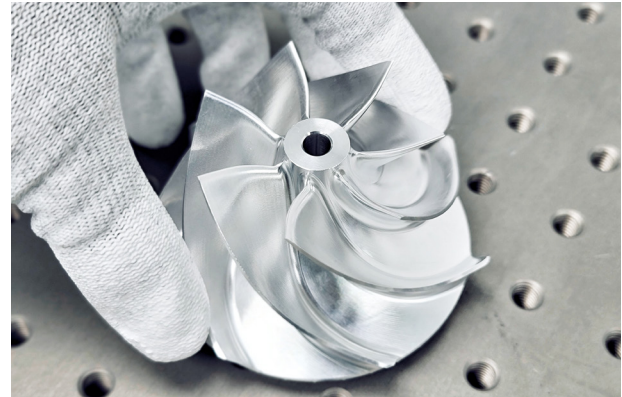


Tough Little Guy



Innovative Shaft Design

G15 incorporates a proprietary shaft design and a lightweight motor rotor, with the total rotor weight (including the impeller) not exceeding 120 grams. This design is more bearing-friendly, ensuring enhanced system durability



Superior Durability through Specialized Coatings

Furthermore, we've applied a special coating treatment to the impeller to guarantee exceptional performance over many years of operation. PCB protected with high spec conformal coatings



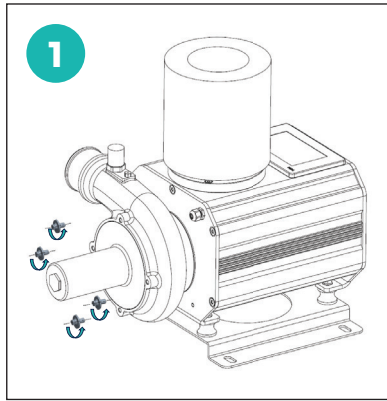
Superior Longevity

The G15's unique attributes provide exceptional longevity, ensuring maintenance-free performance for up to two years, thereby outlasting the service life of market alternatives.

Streamlined Maintenance Process

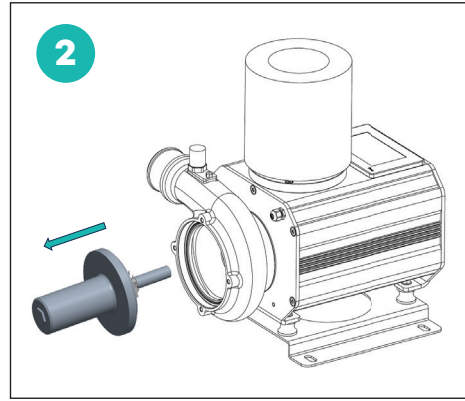
1. Bearings and Rotors Quick-Service

Maintain your G15 swiftly with our 'Smart Aeration Solutions' Maintenance Kit—complete the process in just 10 minutes. Alternatively, send it to Sprintex for full-service maintenance. Follow these simple steps:



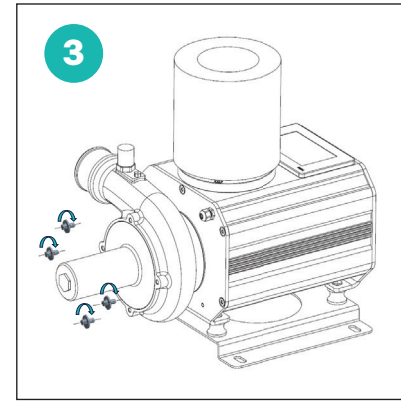
Step 1

Unscrew the indicated four screws.



Step 2

Remove and replace the rotor assembly from the kit.



Step 3

Securely fasten with the provided screws.

2. Filtration System Maintenance

Pause the system and easily swap in a new filter with a simple twist.

3. Software and Performance Enhancements

Stay up-to-date with ongoing firmware upgrades. Contact your local dealer for expert advice.

Sprintex boasts a decade of expertise in high-speed motor technology and offers comprehensive support, including 24/7 online and local technical consultation.

Plus, the G15 Turbo Blower's connectivity to the Sprintex cloud allows for remote management and proactive maintenance, ensuring operational excellence and customer satisfaction.

Operational Efficiency Comparison

Comparison	Side Channel Blower	Sprintex G15
Number of Blowers	1	1
Pressure Outlet (kpa)	123	123
Flow (m ³ /min)	3.8	3.8
Operation Power (kW)	5.5	1.9
Total Power Consumption (kWh) per Year (8400hr)	46,200	15,960
Total Energy Cost (US\$0.18/kWh)	US\$8,316	US\$2,873
Total Cost Saving per Year (USD)	-	US\$5,443
Investment Payback Period	-	6 months



Side Channel Blower



Sprintex G15

Traditional side flow blowers draw a significant share of monthly operational costs due to their substantial energy usage. Additionally, they necessitate regular lubrication and maintenance involving oil, leading to two extra recurring expenses.

The G-15 Turbo Blower, on the other hand, is equipped with our latest technology. Its intelligent automation and superior airflow and pressure output enable savings of \$2,400 per unit each year, resulting in energy expenditure reductions of over 50%.

Case Study: Advancing Energy Efficiency and Environmental Care 📍 Jiangsu, China

In an industry landscape where energy conservation and environmental care are paramount to competitiveness, businesses are actively adopting more sustainable solutions.

The G Series Turbo Blower by Sprintex has become a sought-after choice for its notable efficiency and low maintenance demands. This commitment to sustainability is exemplified by an environmental firm in Jiangsu Province, China, which decided to upgrade its aging side flow blowers. Following a meticulous site analysis by Sprintex technical experts, the G15-3.5kW Turbo Blower was selected as the superior energy-efficient replacement, reflecting the company's proactive approach to eco-friendly operations.



Go Smart, Go Green



Jay Upton

Sprintex - Managing Director / CEO

“Sprintex Ltd is a company with more than 40 years history as a professional manufacturer in the compressor industry.

Headquartered in Perth, Australia, the company operates wholly-owned subsidiaries in Malaysia, United States and China.

Sprintex’s products, including twin-screw compressors, centrifugal air compressors, electronic boosters, and more, have been applied across numerous industries. Praised by customers worldwide for decades, Sprintex has now brought its next generation technology to its G series Turbo Blowers.

I’m confident that the Sprintex G series Turbo Blower will be a game changer of the blower market, with its extraordinary energy-saving capabilities, remarkably compact size and weight, reduced noise, and extended durability.”



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**Smart Aeration
Solutions**

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