



Smart Aeration  
Solutions

# Join us in the Energy Saving Revolution.



 **Sprintex**

**G25 Jet Blower Series**

Smart Pulse Aeration (SPA™) Technology



# G25

## New Gen Jet Blower Series

G25 - 25kW - 100kPa

G25 - 37kW - 100kPa

\*Multiple configurations available



### G25 Jet Blower: Pioneering Efficiency and Reliability

- **Exceptionally Energy-efficient:** Outperforms up to 20% energy savings vs. Industry Turbo Blowers.
- **Unsurpassed Durability:** Extends to an impressive maintenance free lifespan of 5 years.
- **Super Intelligent:** Enables unmanned operation with integrated touch screen and programme controlled active valves for anti-surge and anti-choke.
- **Remarkably Quiet:** Bid farewell to unbearable noises.
- **Ultra-high Power Density:** Resulting in a total weight of only 150kg for the 40kW system.

### 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



\$72,927  
Root Style  
Blower



\$46,929  
Turbo  
Blower

Pays for itself  
in 6 months



\$39,420  
Sprintex G25  
Jet Blower

Implementation of efficient mix-flow impeller design, SPA (Smart Pulse Aeration) Technology, compact air-cooling system, and high efficiency converter, makes G25 Jet Blower up to 20% more efficient than similar Turbo Blowers in the industry.



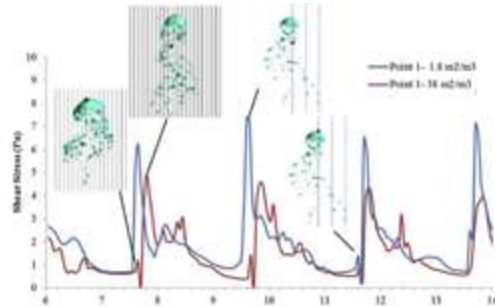
### Optimized Mixed-Flow Impeller Technology

Leveraging the capacity of our inverters and motors for high-speed operations of up to 100,000 RPM, the G25 is outfitted with an advanced mixed-flow impeller. This innovative design outperforms traditional centrifugal impellers, delivering increased airflow and enhanced static pressure. Consequently, it achieves superior energy savings while maintaining consistent airflow and pressure levels.



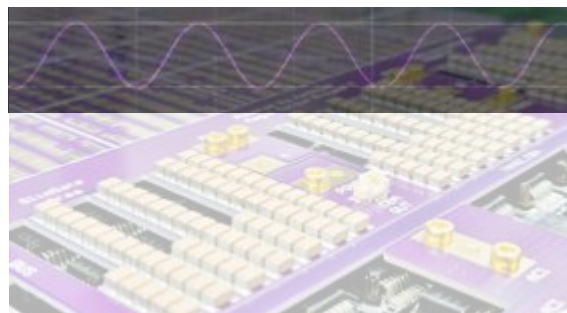
### Streamlined Integrated Cooling Architecture

Our G25 distinguishes itself with a compact cooling system that forgoes the external ducts or additional cooling fans typical in similar products. This autonomous design reduces heat which minimizes energy waste, ensuring peak operational efficiency.



### Smart Pulse Aeration Technology

Compared to continuous aeration, pulse aeration utilizes robust variable speed and flow rate control to create intermittent air blast with of fine bubble clusters. This not only helps the Oxygen Transfer Rate but also saves up to 30% energy consumption in water aeration applications.

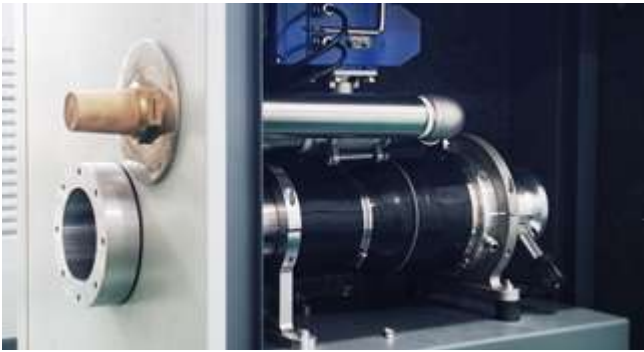


### Cutting Edge Converter

The G25's in-house developed integrated inverter exemplifies superior efficiency, surpassing 98%, and achieves a power factor above 98.5%. This not only ensures exceptionally efficient electrical energy transmission and conversion but also reflects our commitment to delivering electrical power of the highest quality.

# Enhanced Control and Protection System

As in our G-15, the G-25 incorporates a Human-Machine Interface (HMI) alongside precise pressure and temperature sensors, Anti-Surge Control and PLC Multi-Mode Operation, rendering it a highly intelligent blower capable of autonomous functionality across diverse operational needs. Additionally, the G25 is equipped with an active bypass valve for smooth startups and a rapid pressure relief valve, providing a dual-layer hardware safeguard.



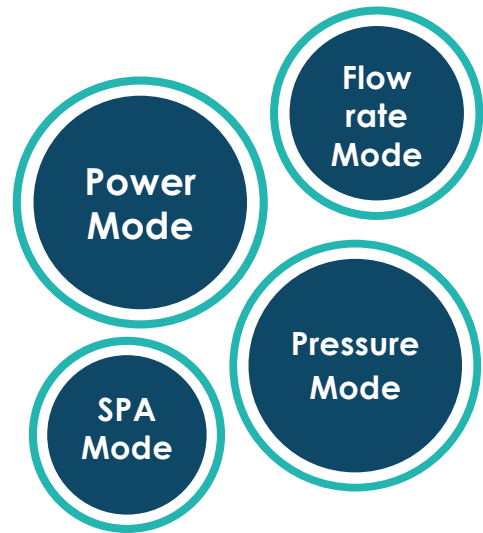
## Proactive Surge Prevention Mechanism

The operation of the G-25 is perpetually monitored by an array of sensors, diligently tracking temperature, pressure, speed, electrical current, and voltage. This vigilant surveillance is crucial in preemptively preventing surge or choke events that could arise from sudden changes in operating conditions.



## Flexible Control Modulation

The G25 facilitates a PLC Multi-mode Control system that allows users to tailor the operational mode to the desired power level, flow rate, or pressure. This can be easily managed via the intuitive touchscreen HMI or through an optional mobile phone app control. Additionally, the G-25's advanced system provides comprehensive monitoring and logging capabilities for operational data and machine health, ensuring optimal performance tracking.



# Born to be Fatigueless



## Innovative Shaft Configuration

The G25 integrates a proprietary shaft design paired with a lightweight motor rotor, maintaining a total rotor weight, impeller included, at a mere 760 grams. This carefully considered design substantially reduces stress on bearings, thereby ensuring superior system durability and longevity.



## Advanced Air Foil Bearing Technology

The G25 utilizes air foil bearings, a design that negates the need for lubricating oil, functioning in a contactless manner, and removing mechanical friction, which collectively contributes to an extended equipment lifespan. Sprintex's patented manufacturing technique amplifies the air bearings' longevity, increasing their start-stop cycle capability, further elevating the product's performance and reliability.



## Superior Longevity

These unique product advantages endow the G25 with remarkable longevity, guaranteeing maintenance-free operation for up to 5 years

# Effortless Maintenance and Upgrades

## 1. Filtration System Care

The filtration system can be easily maintained by pausing the filtration process and installing the new filter with a simple twist action.



## 2. Status Monitoring and Diagnostics

G25 Jet Blower Series monitors and calculates this electrical and mechanical status in real time. The software provides diagnostics functions for professional users to regularly monitor and optimise to the machine's health.

## 3. Continuous Software and System Enhancements

**For software updates or advanced product upgrades, including transitioning to 5G capabilities, we recommend sending the machine back to Sprintex to ensure seamless and precise enhancements.**

The Sprintex G25 Jet Blower features network connectivity that allows it to send real-time operational data directly to the Sprintex cloud platform. This connectivity enables comprehensive remote management, detailed analysis, and proactive troubleshooting, which facilitates the prompt resolution of any customer issues.

# Benefits of IoT Connectivity in Sprintex Jet Blowers

## Optional Extended Warranty and Service Coverage

- **G15 Blowers:** Optional warranty extension from **12 to 36 months**.
- **G25 Blowers:** Optional warranty extension from **24 to 48 months**.
- Includes first service after 18,000 running hours (parts and labour) and automated performance monitoring.
- Available at an additional cost.



## Real-Time Monitoring and Proactive Support

- Continuous data capture on inlet and outlet temperature, flow, pressure, and energy consumption.
- Cloud storage with web and smartphone access.
- Automated alerts for timely interventions

## Enhanced Operational Efficiency

- Real-time energy efficiency scores to optimise energy consumption.
- Remote management for uninterrupted operations

## ESG Compliance

- Aeration is a significant energy draw in many processes. Our blowers significantly reduce energy consumption, supporting sustainability initiatives.
- - Detailed sustainability reporting to support ESG goals.

## Value-Added Services

- Proactive maintenance to prevent failures and extend equipment lifespan.
- Transparent third-party extended warranty service.

**IoT connectivity** in Sprintex jet blowers ensures improved performance, reduced costs, increased reliability, and a positive environmental impact, making it a smart and valuable investment for all stakeholders. Optional extended warranty packages provide additional peace of mind and cost-saving benefits.

# 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 Jet Blowers.

I’m confident that the Sprintex G series Jet 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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