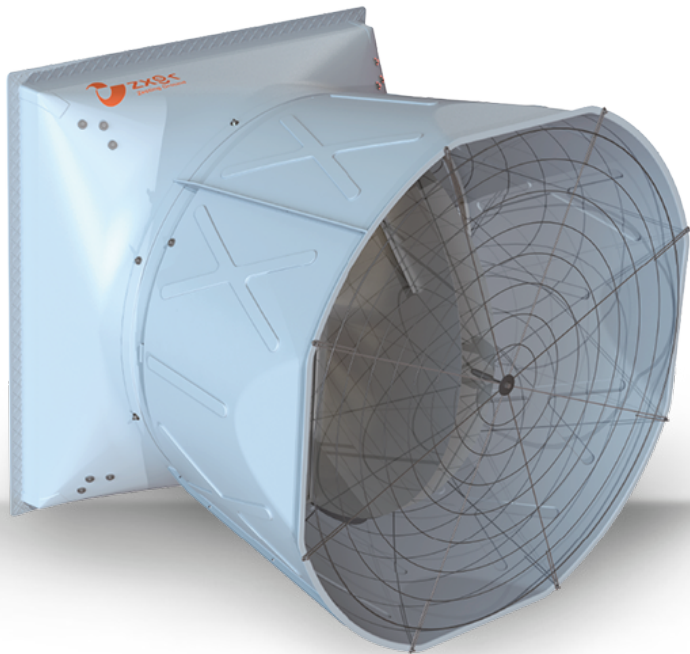
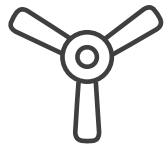


56" SMC FAN

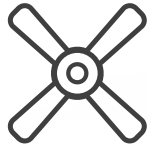
ENGINEERED FOR
PERFORMANCE
DURABILITY
Reliable Airflow Built to Last



Configuration Option



Low Pressure
3 Blade Fan



Medium Pressure
4 Blade Fan



HIGH STRENGTH
Durable SMC material for harsh environments



LOW WING RESISTANCE
Smooth surfaces and aerodynamic design for efficient airflow



ENERGY EFFICIENT
Optimising airflow in the system reduces power consumption



LONG SERVICE LIFE
Robust construction ensures reliable long-term performance

STRUCTURAL AND DURABILITY

- **SMC Housing & Air Convergence Cone**
Manufactured from high-strength SMC material, featuring smooth internal and external surfaces to minimize air resistance and enhance airflow efficiency.
- **Corrosion-Resistant Butterfly Valve System**
Magnesium-plated aluminum butterfly valves provide excellent corrosion resistance, while the spring-loaded mechanism ensures a tight, reliable seal.
- **Robust Motor Bracket Design**
Constructed from high-strength materials with a low-drag structural profile, and finished with a powder coating for enhanced corrosion protection.
- **Optimized Mounting System**
The 56-inch fan incorporates an X-type mounting structure for balanced load distribution, improved installation quality, and enhanced operational stability.

56" SMC Fan Specification Sheet

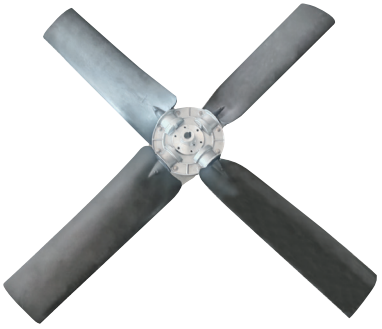
Ventilation Fan Series	Model	Power	Rated Current	Voltage	Rated Speed	Air Volume (m³/h)						Blade Model	Drive/Shutter	Cone
						0Pa	25Pa	50Pa	75Pa	75Pa	75Pa			
Low-Pressure Series	56"	1800w	3.3A	380V	720rpm	-	60700	54920	47600	47600	47600	3-Blade Nylon Fan Blade	Direct Drive/ Butterfly Valve	SMC
Medium-Pressure Series	56"	2200w	4A	380V	720rpm	-	64697	60087	54649	54649	54649	4-Blade Nylon Fan Blade	Direct Drive/ Butterfly Valve	SMC

BLADE SYSTEM OPTIMIZATION

- High-strength nylon blades with glass fiber, engineered for increased thickness and durability.
- Large-diameter aluminium hub plate provides an expanded blade mounting area, enhancing structural integrity and reducing the risk of breakage.
- Delivers equal airflow at 25 Pa
- Outperforming under higher pressure conditions



Low-Pressure
3 Blade Fan



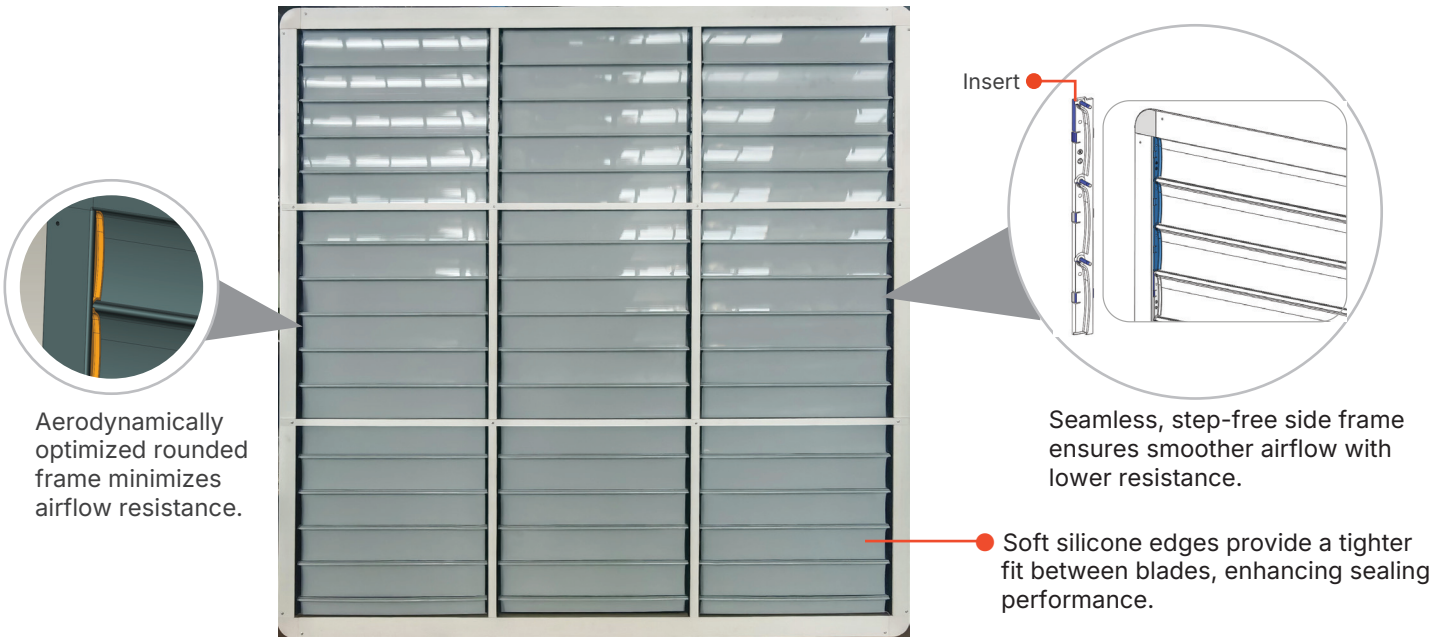
Medium-Pressure
4 Blade Fan

Key Mechanical Performance Differences

Performance	PP+GF30	PA6+GF30	Summary Of Differences
Tensile Strength	45–65 MPa	140–170 MPa	PA+GF delivers 2.5–3× higher strength than PP+GF
Flexural Modulus	3.5–5.0 GPa	8.0–10.0 GPa	PA+GF offers significantly higher stiffness, approaching aluminum alloys
Notched Impact Strength (Room Temperature)	8–15 kJ/m²	10–18 kJ/m²	PA+GF has a slight advantage; PP+GF offers better low-temperature toughness
Creep / Fatigue Resistance	Satisfactory	Excellent	PA+GF provides more stable long-term load performance

SHUTTER

Opaque louver blades with added light-blocking agents effectively prevent light penetration, ideal for poultry applications.



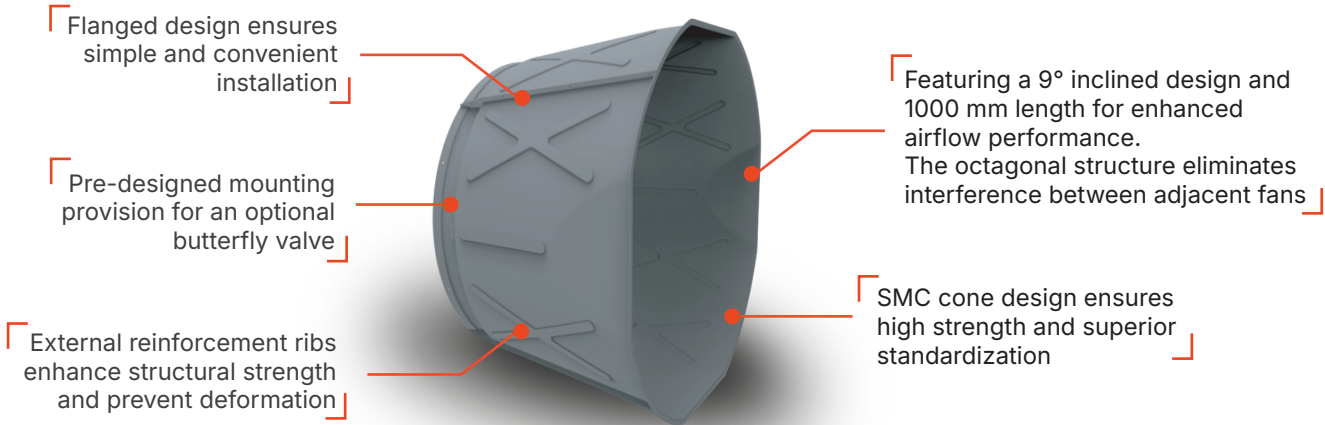
Aerodynamically optimized rounded frame minimizes airflow resistance.

Seamless, step-free side frame ensures smoother airflow with lower resistance.

Soft silicone edges provide a tighter fit between blades, enhancing sealing performance.

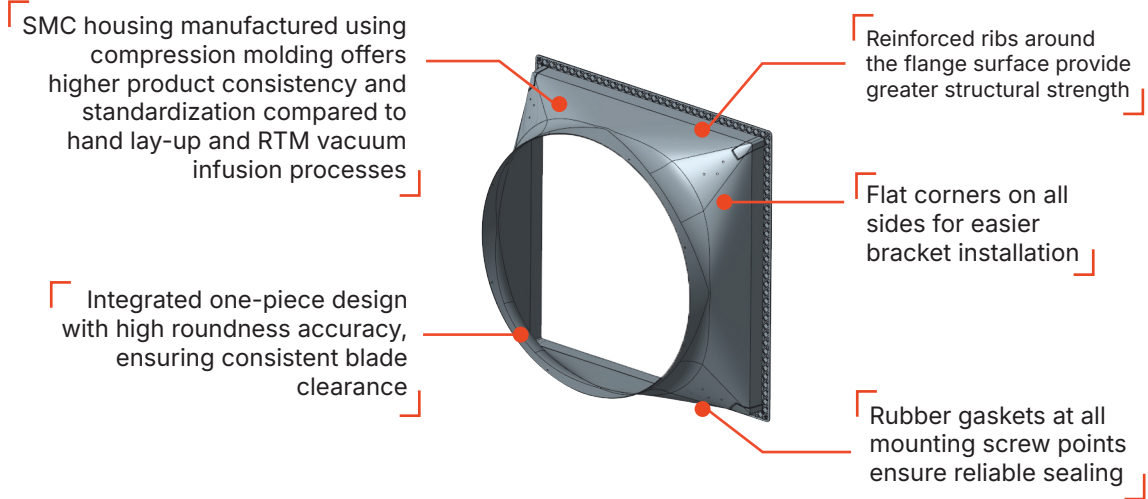
CONE

Engineered for superior airflow performance, the cone system improves ventilation efficiency while maintaining high structural integrity for long-term operation.



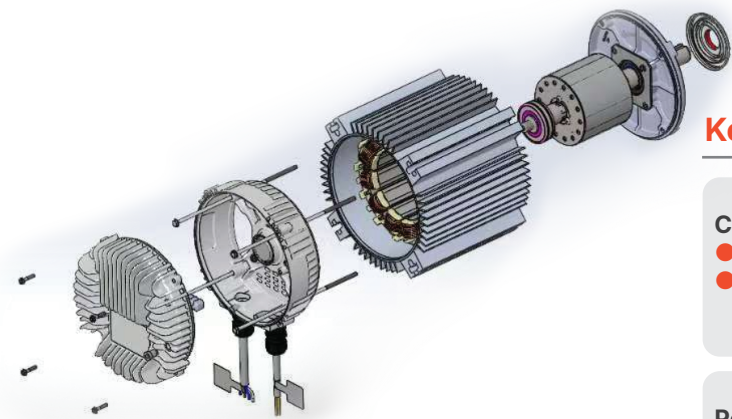
HOUSING

The housing system is engineered for precise assembly, long-term durability, and consistent performance in demanding environments.



MOTOR

Designed for reliability, efficiency, and global compliance, our upgraded motor system delivers superior protection, stable performance, and long service life—even in demanding agricultural environments.



Key Motor Advantages

Compliance & Compatibility

- CE & UL compliant
- Wide voltage (380–460V ±10%)

Protection & Durability

- IP66 sealing
- Surge protection (4–6 kV)
- UV & corrosion resistant

Performance

- G2.5 dynamic balancing
- Stable, low-vibration operation

Control & Intelligence

- RS485/ PWM control
- Auto/ manual switching

Efficiency & Reliability



AC Fan: IE2/ IE3
EC Fan: IE4/ IE5



Lower Energy Consumption



500- Hours Salt Spray Test



Designed For Harsh Agricultural Environments

*Latest Zesting motors are upgraded toward IE3 / IE5 standards, delivering higher efficiency and lower energy consumption

BUTTERFLY VALVE



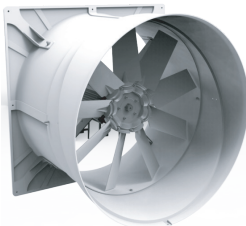
- Full-perimeter sealing gaskets provide secure, airtight closure of the butterfly valve
- Zinc-aluminum-magnesium construction offers superior corrosion protection, while the roll-formed tubular frame delivers high strength and long-term structural stability
- Reinforced with angle iron to eliminate central light gaps when closed, enhancing overall sealing.
- Integrated guide vanes guarantee full 90° opening of the butterfly valve during operation.
- Spring-loaded on both sides to guarantee a secure, tight closure when the fan is off.

28" SMC FAN

COMPACT POWER
HIGH EFFICIENCY

Engineered for high performance, durability, and reliable ventilation indemanding environments

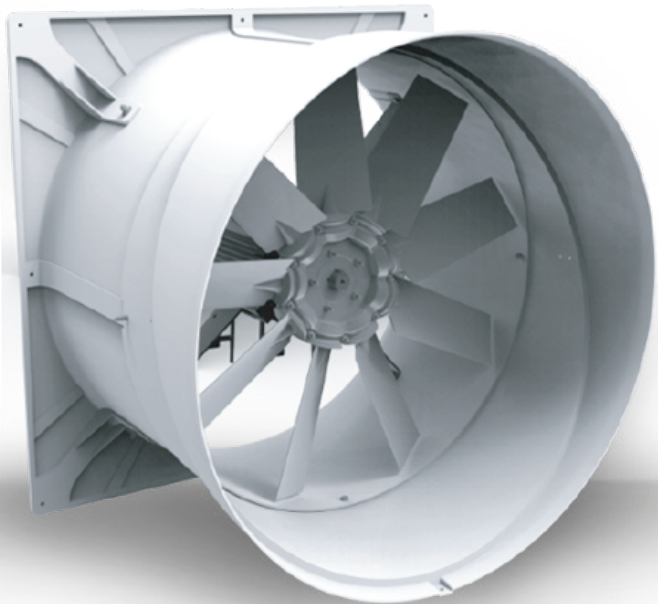
Configuration Option



Cone Type



Butterfly Valve Type



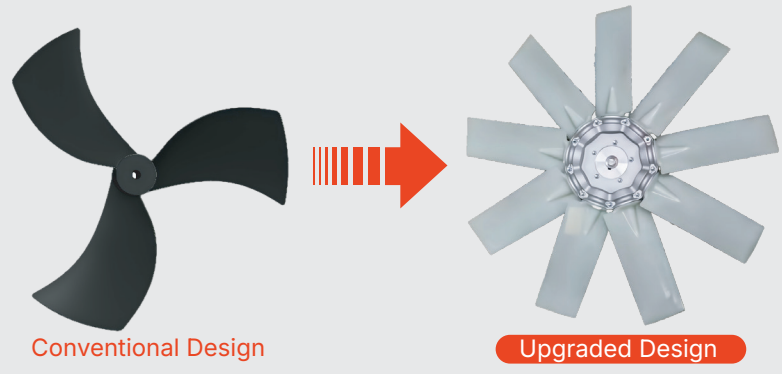
28" SMC Fan Specification Sheet

Ventilation Fan Series	Model	Power	Rated Current	Voltage	Rated Speed	Air Volume (m³/h)					Blade Model	Drive	Cone
						0Pa	100Pa	150Pa	200Pa	250Pa			
High-Pressure Series	28"	2200w	4A	380V	1350rpm	22901	21398	20461	19135	17047	9-Blade Nylon Fan Blade	Direct Drive	SMC

BLADE SYSTEM UPGRADE

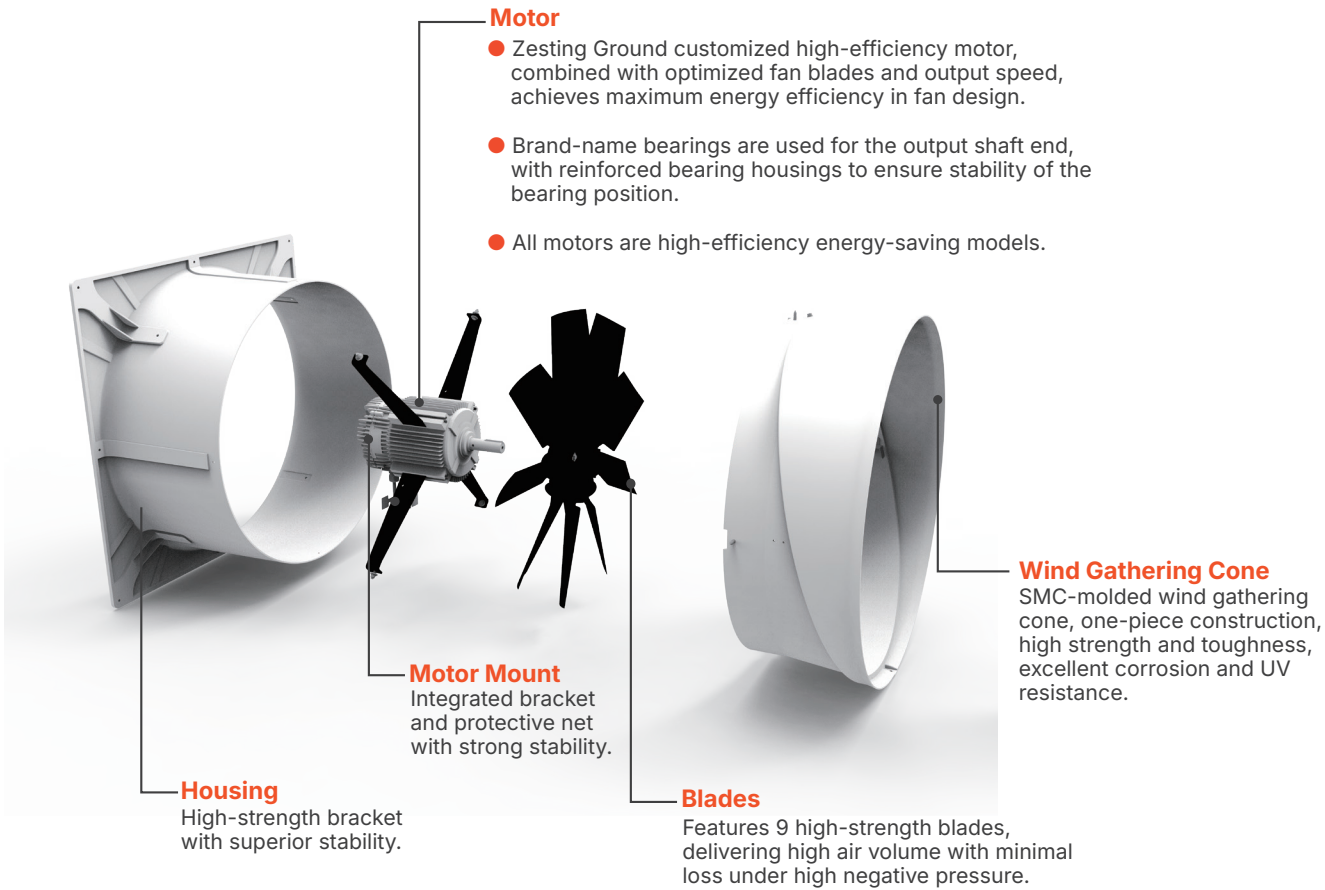
Improved Airflow Efficiency

The upgraded blade system transitions from a conventional design to a high-efficiency multi-blade configuration, delivering stronger and more consistent airflow performance.



- Optimized aerodynamic profile for increased air delivery
- Enhanced airflow distribution across the ventilation area
- Up to +5000 m³/h airflow improvement at 200 Pa

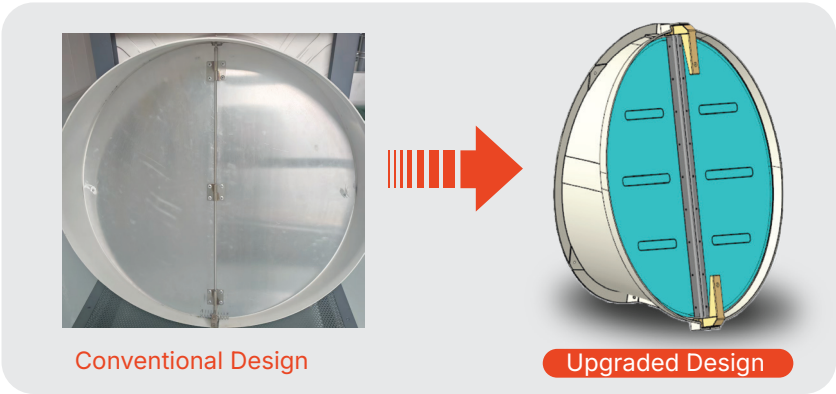
Exploded View of 28-inch High-Static Pressure Fan



BUTTERFLY VALVE SYSTEM UPGRADE

Enhanced Stability Reliable Sealing

The redesigned butterfly valve system delivers improved operational stability and ensures consistent sealing performance under varying working conditions. Built with a stronger structure and optimized mechanism, it enhances both durability and efficiency.



- Simplified, robust structure for consistent performance
- Dual-axis mechanism for smooth and stable operation
- High-strength fiberglass (FRP) construction for durability
- Improved sealing performance to minimize air leakage

Performance Advantages

Higher Airflow Output
under high static pressure

Stable And Reliable
operation in
demanding
environments

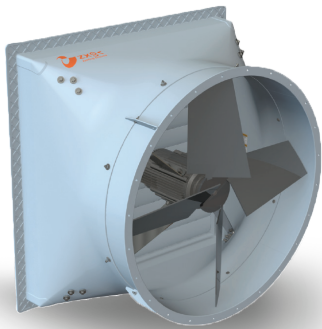
Durable Materials
extended
service life

Optimized System Design
efficient
ventilation
performance

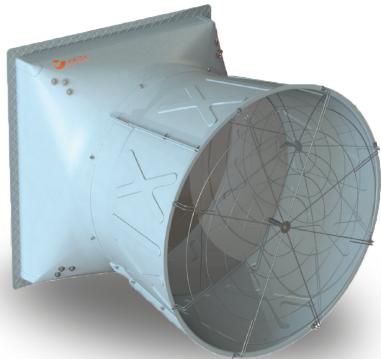
36" SMC FAN

HIGH PRESSURE
RELIABLE PERFORMANCE

Engineered for high airflow and durability, the 36" SMC Fan delivers powerful ventilation with flexible configuration options to suit demanding environments.



Short Air Cone Design
Suitable for Positive Pressure Applications



Long Air Cone Design
Suitable for Negative Pressure Applications

36" SMC Fan Specification Sheet

Ventilation Fan Series	Model	Power	Rated Current	Voltage	Rated Speed	Air volume (m³/h)					Blade Model	Drive/ Shutter	Cone
						0Pa	100Pa	150Pa	200Pa	250Pa			
Low-Pressure Series	36"	3500w	6.2A	380V	1150rpm	36220	34115	32630	31015	28840	4-Blade nylon composite	Direct Drive/ Without Cone	SMC Short Cone
Low-Pressure Series	36"	3500w	6.2A	380V	1150rpm	36830	34880	33650	31200	26050	5-Blade nylon composite	Direct Drive/ Cone & Butterfly Valve	SMC Standard Cone

BLADE SYSTEM UPGRADE

Enhanced Efficiency Reduced Noise

Upgrading from a conventional 3-blade design to a high-efficiency multi-blade configuration delivers improved airflow performance and quieter operation.



Conventional Design



Upgraded Design

- +3000 m³/h airflow increase @ 300 Pa
- Reduced speed from 1400 rpm → 1150 rpm
- Noise reduction from 90 dB → 83 dB
- Improved structural durability with reduced blade failure risk

STRUCTURAL DESIGN UPGRADE

Optimized Form Improved Output

The redesigned cone and housing structure enhance airflow efficiency while simplifying installation and improving system flexibility.



Conventional Design



Upgraded Design

- Modular flange connection for easier installation
- Pre-designed mounting interface for optional butterfly valve
- Enlarged air outlet area for increased airflow under the same conditions

Key Benefits



Higher airflow
under high static
pressure



Lower Noise
operation



Improved durability
and reliable



Easier Installation
and maintenance

Exploded View of 36-inch High-Static Pressure Fan

Housing
Designed with fluid dynamics-inspired smooth curves for reduced wind resistance and higher energy output efficiency.

Motor

- The Zesting Ground customized high-efficiency motor, combined with optimized fan blades and output speed, achieves maximum energy efficiency in fan design.
- Brand-name bearings are used for the output shaft end, and the bearing housing is reinforced to ensure stability at the bearing position.
- All motors are high-efficiency, energy-saving models.

Protective Mesh
It features a baked paint finish with excellent corrosion resistance.

Air Inlet Grille
It features a full-body baked-on enamel finish that provides exceptional corrosion resistance.

Blades
High-strength composite materials enable higher airflow under high pressure.

Butterfly Doors
The door panels are made of steel with a magnesium-aluminum-zinc coating, and the frames are equipped with sealing cotton to ensure excellent airtightness.

Wind Gathering Cone
SMC-molded wind gathering cone, one-piece construction, high strength and toughness, excellent corrosion and UV resistance.