

Ratings and Applications

Airflow Range	400~29,000 m³/h (235~17,059 CFM)
Static Pressure Range	40~300 Pa (0.16~1.2 in.WG.)
Drive Types	Direct drive
Mounting Types	Wall mounted
Applications	1. General ventilation supply and exhaust 2. Sidewall air supply and exhaust 3. Explosion proof air supply and exhaust



Wheel Technology

1. Impeller Material Vs Impeller Sizes

- (250-600 mm) General type impeller with an external rotor motor.
- (250-550 mm) Explosion proof aluminum impeller (aluminum is one of the non-ferrous metals), Equipped with an explosion proof motor
- (600-900 mm) Steel impeller for both general type and explosion proof applications (When used for explosion proof applications, the inlet bell is constructed of aluminum, a non-ferrous metal. Equipped with an explosion proof motor.

2. Stress Tested: High Strength Ensured for Durable Operation

- Computer aided stress analysis.
- Precisely positioned stiffeners through repeated tests to enhance the structure.
- Amplitude of blade ends greatly reduced.
- Deformation or cracking from long-term running prevented.

3. Advanced Design of Forward Swept Blades

- Design optimized for optimal aerodynamic performance.
- Balance quality grade as high as G2.5.
- Streamlined and smooth blade curve to contact with the air more efficiently.
- Blades properly inclined to an angle to reduce turbulence effectively.
- Low sound ensured even with large airflow.

General Features

1. Motor Located inside the Airstream + Lubrication-free Design: Suitable for Installation in High Places

- Small size, simple structure, light weight and reliable operation.
- Motor located inside the airstream: excellent heat dissipation performance to extend motor's service life.
- Lubrication-free motor and maintenance-free fan, suitable for installation in high places.
- No belts, hence no need to ascend a height to change belts.

2. More Reasonable Square Housing

- Square openings made on the concrete wall, brick wall and profiled sheet wall, which is much easier.
- Single layer of profiled sheet wall supported by horizontal beam to form a simple but reliable structure.

Technical Information

1. Quality Standards

The fan has designed according to AMCA design procedure, the products are produced within very control procedure following ISO 9001, ISO14001 and ISO 45001.

2. Fan Type

The sidewall axial supply/exhaust fans shall be equipped with steel or aluminum forward swept blades. Stiffeners shall be used on the blades for greater strength and reduced amplitude of blade ends. Motors and blades shall be statically and dynamically balanced to G2.5.

3. Fan Housing

The housing shall be of square shape and constructed of galvanized steel (optional: cold rolled steel sheets finished with electrostatic epoxy coatings). Support structure for the motor shall be strong enough to prevent resonance vibrations during fan operation. Safety guard shall be mounted at the indoor part of the fan for safety concerns.

4. Motor

The external rotor motor rated and internal rotor motor shall be carefully matched to the fan load. It shall be (IP44, IP55, IP56, etc.) rated with Class (F, H) Insulation according to project specification. In order for the motor to get cooled, it shall be located inside the airstream.

4. Nameplate

A permanently fixed aluminum nameplate shall clearly display the fan number, product model and serial number (A unique ID for each fan) so that the parts used can be traceable by customers.