

World's Most Efficient Axial Fans

Efficiency up to 94%

Energy Savings up to 60%



New & Retrofit
AHUs, Air Supply Units, Air Washers, Ventilation Units,
Fresh Air Units, Exhaust & More

Our Inspiration

Our Axial Fan boasts a distinctive design inspired by the aviation industry, where efficiently moving air is not just a choice but a necessity. Aligned with this belief, we conduct all our research and development endeavours with the aim of streamlining your air circulation in the most efficient manner possible.



To manufacture these highly efficient fans, we employ state-of-the-art precision machines for both production and assembly. This meticulous approach is crucial in achieving the tight tolerances required to ensure that the designed efficiencies are faithfully replicated in every fan we produce, facilitating a streamlined and effective air movement within your system.

Our Patented Design

Leveraging decades of experience in the aviation industry, our seasoned R&D team enthusiastically embraced the challenge of creating the world's most efficient fan. The distinctive approach involved optimizing impeller RPM, setting our axial fan apart from others in the market. With meticulous attention to detail, we tailor each fan to meet your operational requirements, ensuring a harmonious balance between sustainable, consistent performance and minimal energy consumption.

Low Noise Levels

Innovatively crafted blades for minimal sound output

Unique Airfoil Design

Pioneering airfoil design for unparalleled efficiency

Optimized Hub

Distinctive hub curvature promoting smooth inlet airflow



3D Twisted Blades

Blades twisted in three dimensions for enhanced efficiency

Expanded Blade Span

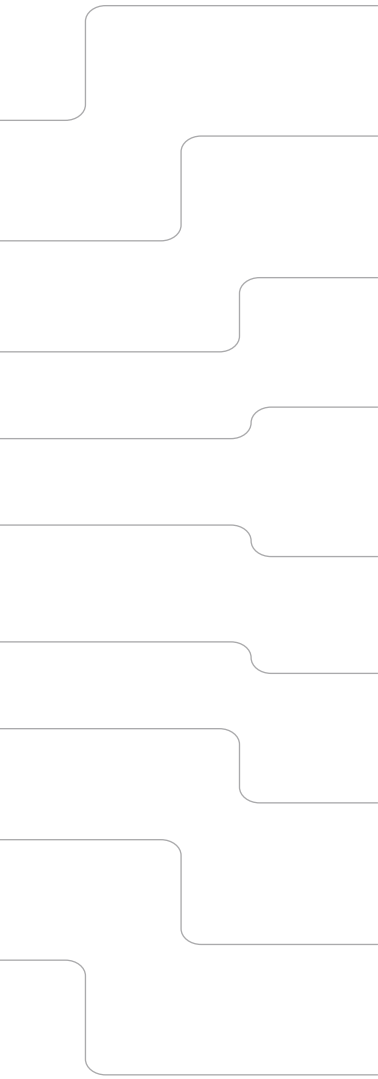
Ample blade span for reduced RPM and heightened performance

Energy Savings
up to 60%



Fans That Cater to All Your Needs

Our engineers meticulously choose the most suitable fan for your needs, considering factors such as required air flow, pressure, efficiency, and sound preferences.



500 mm dia.
560 mm dia.
630 mm dia.
710 mm dia.
800 mm dia.
900 mm dia.
1000 mm dia.
1120 mm dia.
1250 mm dia.

Air flow Range

2,000 CFM to
110,000 CFM

Pressure Range

up to 4,200 Pa

C4/C5 Coating
for Corrosive Environments

Temperature Range
-20° to 120° C

Fan Casing
2 mm to 4 mm Thick



Unmatched System Efficiency

$$\text{(Fan + Motor + VFD)} \quad \text{System Efficiency} = \text{Up to } \mathbf{88\%}$$

94% + 96% + 98%

Unique Impeller Design

Efficiency – Pressure:
Consistent High Efficiency
Across all pressure loads

Minimum Tip Clearance

Efficiency – Noise Reduction:
Reduces Turbulence

Motor & Drives

Induction - IE3
PM - IE5

Hub

Efficiency - Pressure:
Aerodynamic Design

Guide Vanes

Efficiency – Pressure:
Streamlining Airflow

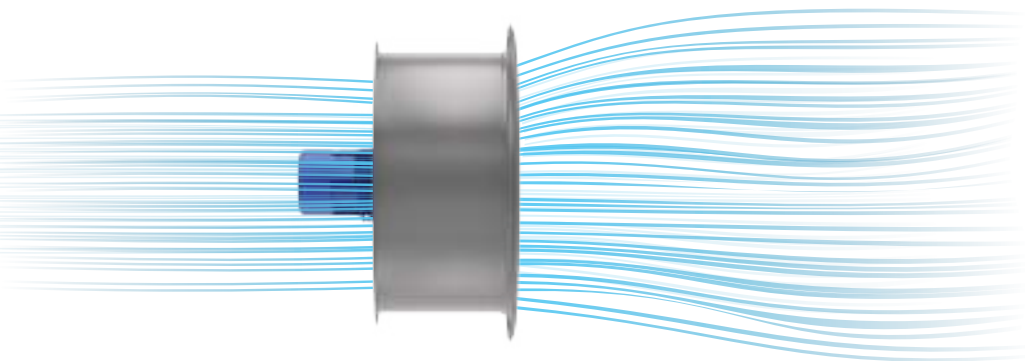
Inlet Cone

Efficiency - Noise reduction:
Smooth Air Intake



System Effect

In addition to its outstanding efficiency, our fan system is carefully crafted to maintain almost laminar flow, with straight paths at the entrance and exit. This design reduces the typical pressure losses that occur in centrifugal or plug fans.



Motors - A matter of choice

PM

IE5 PM motors

PM

IE4 PM motor

Induction

IE3 motors

Induction

IE2 motors

FLP Explosion

Proof IE2 /IE3 motors

Smoke

Exhaust Motors

F200 / F400

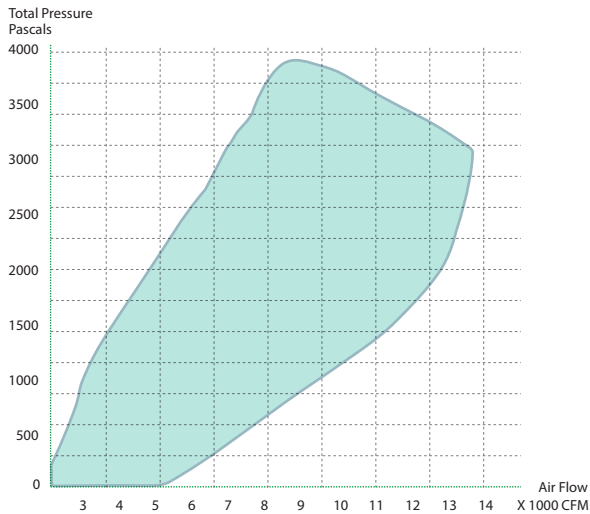


Motor Solution

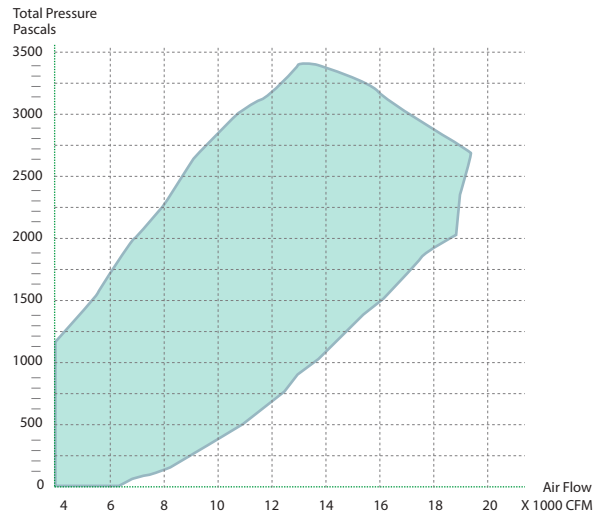
We strongly believe in providing choices to our customers, recognizing that each individual's needs are unique. We offer motor solutions tailored to your specific requirements, taking into consideration factors such as efficiency, return on investment, fitness for purpose, and ease of maintenance, among other considerations.



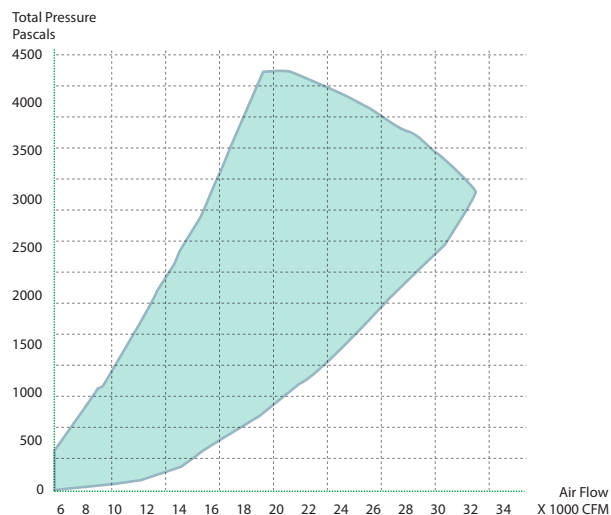
Fan Operating Envelope



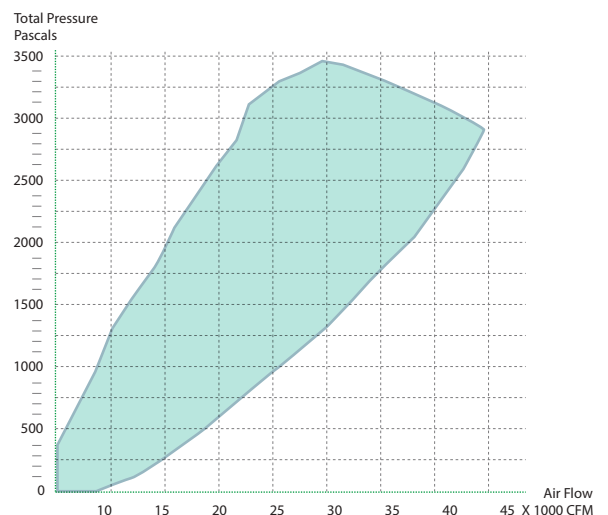
ARN 500



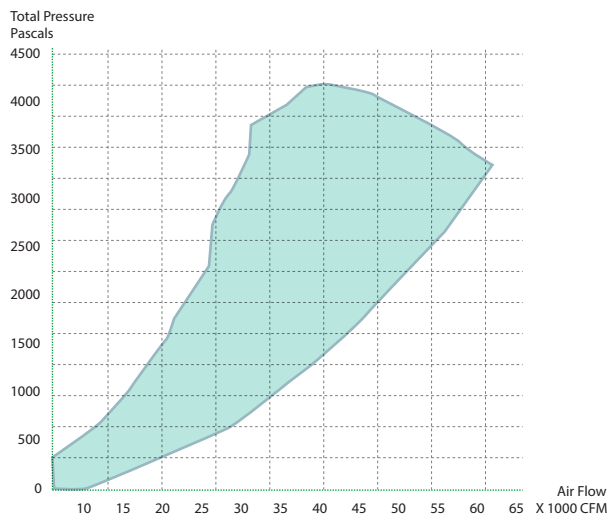
ARN 560



ARN 630



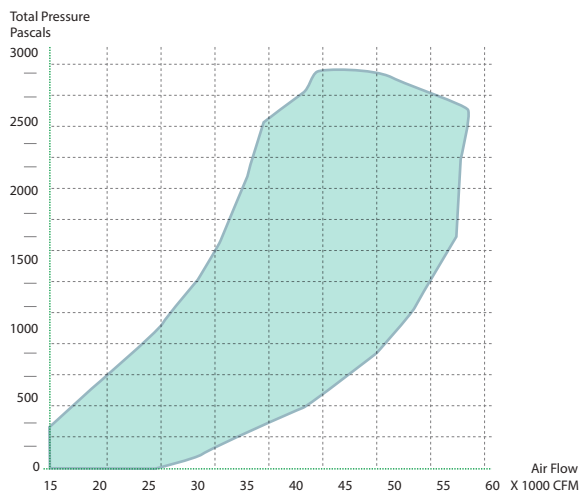
ARN 710



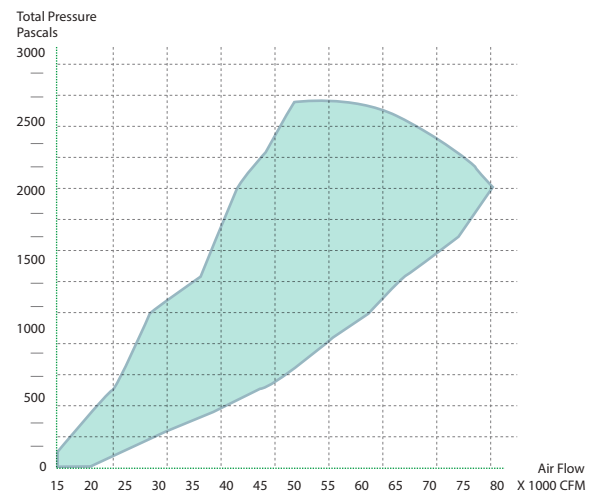
ARN 800

Note: These envelopes display a provisional operating range. For selecting fans as per your specific need please contact us.

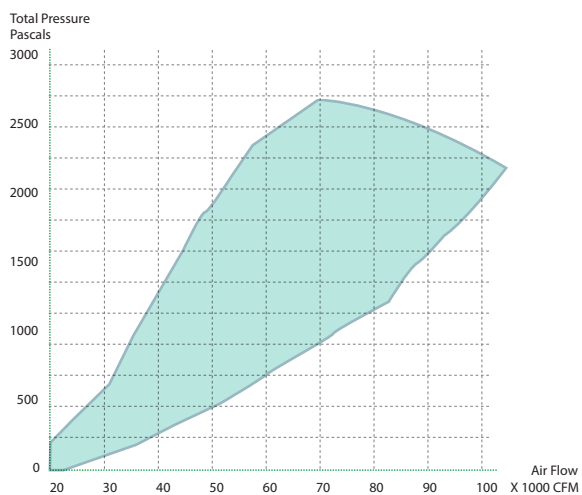
Fan Operating Envelope



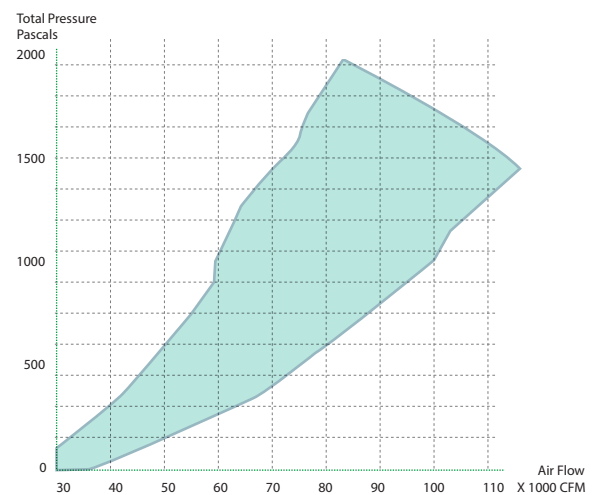
ARN 900



ARN 1000



ARN 1120



ARN 1250

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Accessories

Fan mounting feet

Vertical and horizontal mounting feet can be provided based on your system's installation type, offering the flexibility to install your fans in any orientation.



Anti-vibration mounts

To mitigate vibrations, we supply rubber mounts tailored to factors such as fan size, motor size, and operating conditions.



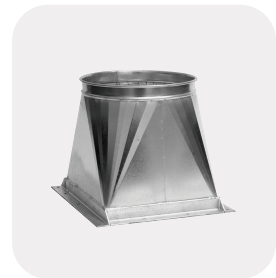
Inlet cones

Fans are equipped with inlet cones to facilitate a smooth entry of air into the impeller, optimizing performance.



Diffuser

Uniquely crafted diffusers are installed at the fan outlet to enhance the efficiency of your system's operation.



Flexible connection

To isolate the fan system from your air handlers or duct system, flexible connections are incorporated to effectively dampen vibrations.



Wire guard

Wire guards are supplied for both the inlet and outlet, ensuring the safe operation of the fans.



Manufacturing Fans for -



AHUs | Air Supply Units |
Air Washers | Ventilation
Units | Fresh Air Units |
Exhaust & More

Our Prestigious Clients



And More...



Aeronaut Fans Industry Private Limited.

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Telangana, India - 500081

Manufacturing Plant:
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