

# JetStream™ Vane Axial Fans (VAX Series)



The JetStream™ Adjustable Pitch Vane Axial Fan line is specifically designed to blend aerodynamic performance and ease of application.

These fans are ideally suited for mining, industrial and HVAC applications ranging from 3,000 to 250,000 cfm and 3.5 to 18 in Wg total pressure.

Based on over 65 years of experience with axial fan installations, Alphair offers the most reliable, easily maintained equipment at an economical price. Designed by some of the world's leading aerodynamic fan specialists, Alphair VAX fans meet a wide range of applications.

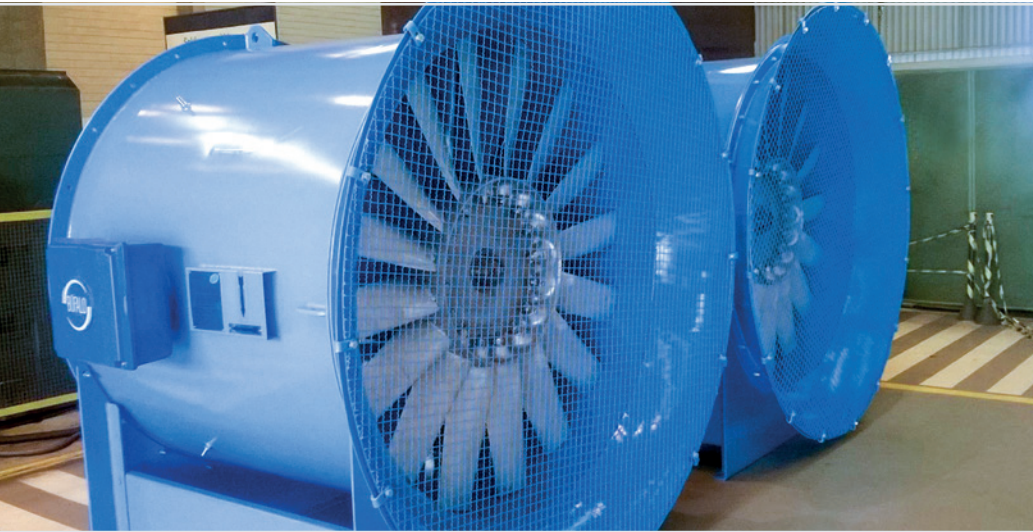
### Rotor

- Blades high strength, age hardened cast in aluminum, with a high tensile steel bolt insert.
- Developed with proprietary airfoil profile to offer high efficiency and low noise characteristics.
- Developed for durability in aggressive applications from 10 to 400 hp.
- Hub rims cast from ASTM A356 aluminum, heat treated to T6 condition.
- Carbon steel hub insert bored to suit motor shaft.
- Blade pitch is easily adjusted for the 1800, 2100 and 2700 hub by simply loosening one blade locking nut per blade, setting new pitch and re-tightening. Blade nuts can be easily accessed by removing the aluminum nose cap, without having to remove the rotor from the fan.
- The 3150 hub blades are retained by capscrews and are adjustable without removing the nose cap.

### Product range

Howden offer a series of adjustable pitch vane and tube axial fans for HVAC, industrial and mining applications.

Series	Maximum motor speed (60 Hz) Fan diameter, inches																	
	24	25	28	30	32	43	36	38	42	45	48	54	60	66	72	78	84	
1800	3550	3550	3550	3550	1780	1780	1780	1780	1780	1780	1780	1780						
2100			3550	3550	3550	1780	1780	1780	1780	1780	1780	1780						
2700							1780	1780	1780	1780	1780	1780	1780	1180	1180			
3150												1780	1780	1780	1180	1180	1180	1180



**For further information contact**

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**Housing**

Fan housing designed with durability and low vibration in mind.

Heavy duty welded flanges.

Housings are 3/16" plate for 24" to 36" diameter and 1/4" plate for 38" to 84". Available in both carbon steel and stainless steel.

Low vibration designs are standard, back end motor steadies rigidly support the motor and rotors are precision balanced to ISO G2.5.

**For surface and underground mining applications, heavy duty enhancements are available, including:**

- Conduit box roll-over protection.
- Heavy duty reinforced housings and wheel track protection.
- Grease nipple protection.
- Reinforced inlet bells.
- Duct adapters designed for use with collapsible fabric ducting.
- A variety of skid-mounted arrangements.

Arrangement 4: direct drive fans are standard and utilize an internal bulkhead and 'C' flange motor connection, which allows for superior aerodynamics and efficiency. Foot mounted motor arrangements can be offered if requested.

Arrangement 9: V-belt drive fans with bearings selected for an average life of 100,000 hours, and a minimum shaft operating to critical ratio of 1.25.

Standard surface preparation is SSPC-SP 6, uniform commercial sand blast and custom QA/QX requirements including SSPC-SP 1. Near white sand blast can be accommodated.

A variety of coatings are available, such as red oxide primer, enamel and epoxy.

**Motors**

C-flange mounted Totally Enclosed Air Over (TEAO) T-frame motors.

Motor leads extended to a conduit box located outside of the air stream, for improved performance and accessibility.

Rotors mounted on motor shaft using threaded motor shaft and bearing lock-nut. Taper lock bushing mounting available on request

Grease lines extended to outside of housing.

Designs for horizontal and vertical installation are available.

Optional items such as space heaters, RTDs and vibration monitors are available upon request.

Explosion proof, high specification and IEC frame sizes.

