

AB-JF Series

Jet Fans



AIRBLAST



The Airblast Jet Fan is a four-bladed vaneaxial fan which operates through a high velocity jet of compressed air which is ejected from the trailing edge of the blade. This results in the forward rotation of the fan wheel just like a jet plane is pushed forward by the high-velocity jet ejected from the rear of the jet engine.

Features:

- Use for general ventilation in any location where compressed air is available.
- Suited for ventilation of tanks, process vessels, or other confined areas for the removal of hazardous fumes or contaminated air from welding, sandblasting and other operations.
- Rated operating pressure 3-8 bar (40-110 PSI).
- Design allows for lower RPMs while still moving more air.
- Bearings are repacked with a hi-tech synthetic lubricant for longer life.
- Propeller balanced by removing material from end of blades.
- Use as blower or exhauster.
- Electro polished stainless steel fan guard.
- Heat treated to T6 aircraft aluminum specifications.
- Super-duty, high quality, high pressure air seal for longer service.
- Heaviest-duty fan in the industry.
- Hi-tech four blade design.
- Six guide vanes to smooth air flow eliminating turbulence.
- Fan design by one of the foremost fan engineers in the world.

AB-JF JET FAN

Part no.	Description
	AB-JF 20 Jet Fan
	AB-JF 24 Jet Fan

AB-JF JET FAN Optional Accessories

Part no.	Description
	20" API Flange Plate (508 mm)
	24" API Flange Plate (609.66 mm)

AB-JF20 Jet Fan - Matches up with a 20" API Flange Plate (508 mm)
 AB-JF24 Jet Fan - Matches up with a 24" API Flange Plate (609.66 mm)

Features:

- The unit consists of a rugged cast-aluminum housing and a cast-aluminum fan wheel.
- The hollow shaft and the fan wheel are the only rotating parts. However, there is no torque on the shaft, as it does not transmit any power to the fan wheel, as fan shafts normally do. The compressed air jets drive the fan wheel.
- The fan wheel has a hub and four blades, producing adequate static pressure to overcome the resistance of the system to be ventilated.
- Only two of the four blades have jet outlets. The two other blades have good airfoil cross sections for a better induction ratio.
- The housing is equipped with guide vanes for better efficiency. The vanes will neutralize the air spin past the blades and guide the air flow into an axial direction.
- The housing has a smooth inlet bell for increased CFM, higher efficiency, and lower noise level.
- It's performance was tested at an independent test lab to the AMCA Standard 210 test.
- Shipped with grounding cable for safety and crowfoot connectors.

Construction:

- FAN BLADE AND HOUSING: Spark resistant 356 aluminum heat treated to T6 aircraft aluminum specification.
- FAN GUARDS: Stainless steel; meets OSHA requirements.
- SHAFT: Stainless steel.
- LOCKING MECHANISMS: Stainless steel lock shield, bear hug retainer.
- BEARINGS: Premium ball bearings sealed with a high-performance synthetic grease.
- FLANGES: Matches 20" & 24" American Petroleum Institute tank opening.
- CONVERTIBLE DESIGN: Use for supply or turn it around and use as an exhaustor; flange mountings are identical on both sides.

Performance CFM against static pressure

Com- pres. air (PSIG)	Average RPM	Air Usage CFM	CAPACITY (CFM) AGAINST STATIC PRESSURE (IN. WC)										
			0	1	2	3	4	5	6	7	8	9	
AB-JF20													
40	2,080	60	5,920	3,580	1,650	220	0						
60	2,695	114	7,600	5,870	3,860	2,350	1,200	200	0				
80	3,225	186	9,100	7,730	6,000	4,410	3,180	2,140	1,190	270	0		
100	3,670	292	10,420	9,200	7,850	6,260	4,770	3,650	2,680	1,850	1,070	350	
AB-JF24													
40	1,565	76	8,104	2,391	0								
60	2,053	147	11,005	7,312	2,649	0							
80	2,570	225	12,848	9,969	6,223	3,397	1,225	0					
100	3,138	338	16,136	13,975	11,295	8,350	6,326	4,638	2,950	1,261	0		