



LAKHI BLOWER INDUSTRIES

## AXIAL FLOW FANS



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**Axial Flow Fans** are designed to meet large quantities at comparatively low pressures and are ideal for ventilation and air conditioning requirements where many air volume & pressure combinations are required. Tube Axial Fans are particularly useful for handling hot moist air or gas and fumes and providing fresh air. They are used in cement, chemical, petrochemical, paper, plastic, pharmaceuticals, steel, textile, food processing and other industries.

#### Features

- Cast Aluminium impeller, blades with aerofoil section for high efficiency.
- Statically and dynamically balanced impellers ensure vibrations free working.
- Rugged, Welded-steel construction.
- Wall mounting, Roof mounting and V-belt drive designs.

#### Constructional Details

**Casing :** Casing covers the overall length of the motor and the impeller. It is fabricated from mild steel plates with connecting flanges at both ends. Casing is also provided with foot mounting arrangement to facilitate installing of fan on the ground. An external terminal box is provided (except for flame proof motors) and casing has one inspection door.

**Impeller :** Impeller is of aerofoil section, cast in aluminium alloy, dynamically balanced.

**Motors :** The standard A.C. Motors are totally enclosed squirrel cage induction type, suitable for ambient temperatures up to 40°C. Flameproof vapourtight and other motors can be supplied on request.

**Bearings :** Ball or Ball and roller bearings are fitted as standard.

**Driving Arrangements :** These fans are run either with direct drive arrangement. In case of direct drive arrangement, impeller and motor are both mounted inside casing and impeller and motor are both mounted on motor shaft extension.

In case of V-Belt drive arrangement, impeller is mounted on a separate shaft supported on two ball bearings and plunger blocks inside casing. The motor is mounted on outer side of casing and shaft is driven with V-Belts.

**Ancillary Equipment :** The following ancillary equipment is available for all sizes of fans : coned inlets, wire guards, dampers, matching Flanges, anti-vibration mountings and canvas connectors.

#### Technical Specifications

Impeller Size		Speed		Motor		Free Air		CMH at different static pressures in standard water gauge								
inch	mm	RPM	HP	CMH	5 mm	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm				
12	305	1425	0.25	1700	1550	1300	500	—	—	—	—	—				
		2850	0.75	3900	3750	3500	3350	2500	—	—	—	—				
15	380	1425	0.25	2500	3350	2750	24800	1600	—	—	—	—				
		2850	1.50	5500	5350	5250	4900	4800	4250	3750	—	—				
18	455	1425	0.50	5250	4850	4450	3850	3350	—	—	—	—				
		2850	3.00	10500	10300	10200	10000	9800	9600	8700	7700	6500				
24	610	1425	1.00	10200	9700	8900	7900	6800	—	—	—	—				
27.5	700	1425	3.00	16250	17000	15200	13800	12500	—	—	—	—				
31.5	800	1425	5.00	26000	25000	23000	21000	19500	15000	—	—	—				
		960	3.00	17900	16000	13000	10000	—	—	—	—	—				
36.0	915	960	5.00	33000	29900	26400	20500	17000	—	—	—	—				
		1440	10.00	44000	41000	39000	36000	34000	32000	29000	—	—				
39.5	1000	960	7.5	36000	33000	31000	27000	23000	—	—	—	—				
		1200	7.5	45000	43000	39000	30000	—	—	—	—	—				
47.5	1200	720	7.5	45000	43000	39000	30000	—	—	—	—	—				
		960	10.00	61000	58000	56000	53000	50000	45000	36000	30000	—				