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## **AXIAL FLOW FANS - *SHORT CASED AXIAL***

Our Axial Fans can be supplied as both cased and plate mounted versions. These fans are suitable for most applications including general ventilation for large, medium and small industrial spaces. The size of space and purpose will determine which variant and size of fan is most appropriate to your specific requirement. Our experts are on hand to assist you with choosing the correct fan.

### **ARRANGEMENT**

Direct driven Single or Multi stage fans suitable for vertical or horizontal mounting.

### **STAGING OF AXIAL FLOW FANS**

By running two Long Cased Fans in series with contra-rotating impellers, it is possible to achieve up to three times the pressure of a single stage fan of equal diameter and speed.

### **LONG CASED TYPE**

In this instance the casing covers the entire length of the motor and impeller and an inspection door is provided. Essentially for duct mounting where flanges are bolted back and front.

### **SHORT CASED TYPE**

The casing covers the impeller track and a portion of the motor projects beyond the end of the flange. Best installed at the end of a duct or on Air Conditioning equipment.

### **MOTORS**

In most instances foot mounted TEFC IEC 600034-1. Electric motors are fitted with metric dimensions. The motors are selected to cover the 'peak' power absorbed for fan blade pitch angle and speed. Most standard motors have Class 'F' insulation and are suitable for operating at temperatures of up to 50°C (122°F). Higher temperatures available if required.

The standard voltages are 220, 230/380, 380, 240/215 and 460. Motors can be wound for any voltage and frequency and also for dual voltage. The use of standard foot mounted motors of this type guarantees inter-changeability in most countries of the world with machines of similar speed/kw. INVERTER CONTROLLED, FLAMEPROOF, SINGLE PHASE, 2 SPEED AND COMPANY SPECIFICATION MOTORS CAN ALWAYS BE OBTAINED.

### **STANDARD IMPELLERS 250-1250MM DIA**

Impellers have aerofoil section polypropylene blades fitted into a die-cast aluminium hub. Five different blade angles are available and each blade is individually replaceable in the event of breakage. Aluminium blades are also available in selected angles.

### **SPECIAL IMPELLERS 250-2000MM DIA**

Impellers have aerofoil variable pitch aluminium blades fixed into a die-cast aluminium hub.

### **FRACTIONAL SOLIDITY IMPELLERS**

All sizes of impellers can be supplied with varying number of blades to suit the application. This has the effect of reducing the static capability of the fan whilst retaining a high efficiency.

### **EXAMPLE OF CODING**

A typical example of coding is 630/9/35 indicating :

*630 diameter in mm*

*9 number of blades*

*35 blade angle in degrees*

### **EXTRA FEATURES AVAILABLE**

Mounting feet, flexible connections, AV Mountings, Mating Flanges, Inlet Cones, Guards, Back-draught shutters, Special Paint. Finishes: External Terminal Box.

### **FINISH**

*Standard Fans: Galvanised*

*Optional Finishes: Epoxy Resin, Metal Spraying*



## SHORT CASED AXIAL



Short Cased Axial are applied at the end of a duct or on a wall. They can be fitted with Standard or Atex rated motors with single or 3 phase supply. Fan casings can also be fabricated in 304 and 316 Stainless Steel.

### POSITIONING

### CONSTRUCTION

Fan Size	A	B	C	D	E	F
250	250	344	150	8	10	295
315	315	399	160	8	10	355
355	355	439	160	8	10	395
400	400	484	170	8	12	450
450	450	534	180	8	12	500
560	560	644	210	12	12	560
630	630	714	210	12	12	690
710	710	794	250	16	12	770
800	800	908	300	16	12	860
900	900	1033	350	16	15	970
1000	1000	1133	400	16	15	1070
1120	1120	1253	500	20	18	1190
1250	1250	1406	600	20	18	1320
1400	1400	1556	600	20	18	1470
1600	1600	1758	700	24	18	1680

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