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## **CENTRIFUGAL FANS - BACKWARD CURVED CENTRIFUGAL FANS**

There are different types of Centrifugal Fans covering air volumes from 85 to 100,000m<sup>3</sup>/hr and from 25 to 15,000 PA. Each application requires a fan with different characteristics.

### **APPLICATIONS**

Engineers must consider the use of Centrifugal Fans instead of Axial fans for some of the following reasons:

*High Temperature*

*Low Noise Levels*

*Dust & Fume Extract*

*High Static Watergauge*

### **TYPES OF CENTRIFUGAL FANS**

There are different types of Centrifugal Fans covering air volumes from 85 to 100,000m<sup>3</sup>/hr and from 25 to 15,000 PA. Each application requires a fan with different characteristics, whether it be the blade design, the width of the casing or even the method of drive. By way of a guide as to which is the best fan for certain projects, we list below information that might assist the potential user.

#### **PADDLE BLADE FANS**

This type of fan is used for the conveying of dust, wood and paper refuse, cotton fly etc. Since the blade design prevents 'build up' of waste materials, discharge velocities vary dependent upon what is being conveyed in the air stream. Normally in the region of 7-20 mtrs/sec.

#### **MULTIVANE OR FORWARD CURVED FANS**

Used for general ventilation purposes – not good for dust etc. Limited pressure characteristics. Normal discharge velocities 5-13 mts/sec

#### **BACKWARD CURVED OR BACKWARD SLOPING FANS**

Non overloading power characteristics suitable for very light dust applications (eg clean side of dust collector) where a good efficiency is required. Used for high pressure ventilation systems or where the system resistance could fluctuate. Normal velocities 9-16 mts/sec

## **AEROFOIL FANS**

The most efficient of all centrifugals fans, ideally suited to general ventilation projects where there is no possibility of dust contamination. Recommend for high pressure ventilation systems or where the system resistance could fluctuate. Normal discharge velocities 7-15 mts/sec.

## **HIGH PRESSURE BLOWERS**

As their name suggests, these fans are applied where the requirement is for high velocities, eg Air Curtains, refuse conveying etc Normal discharge velocities 15-30 mts/sec.

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# BACKWARD CURVED CENTRIFUGAL FANS

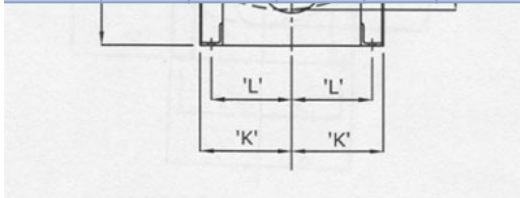


Non-overloading power characteristics suitable for very light dust applications. Good efficiency is required. Used for high pressure ventilation systems. Normal discharge velocities 16 - 30 mts/sec.

## POSITIONING

## CONSTRUCTION

Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
11	174	104	100	75	206	203	241	330	51	230	140	114	127	78	191
12	190	114	120	75	220	222	260	356	57	235	140	114	127	83	210
13	206	124	130	75	234	238	283	381	62	265	151	127	152	88	229
14	222	134	138	75	250	257	305	406	67	270	151	127	152	93	245
15	238	142	148	75	266	276	324	432	71	287	159	133	165	97	264
16	254	152	160	75	280	292	346	464	76	317	159	133	190	102	279
18	286	172	178	75	311	330	390	520	86	366	184	159	228	113	318
19	301	180	188	75	327	349	413	546	90	382	203	178	240	117	333
20	319	190	196	75	343	365	432	572	95	387	203	178	240	122	349



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