

# CENTRIFUGAL FANS

## Backward Bladed Fans

Backward bladed designs generally represent the most efficient and cost effective fans for both clean air and light dust loads.

This is the work horse of industrial air movement & typical industries include :- Air Pollution Control, Dust Extraction (clean side of filter), Waste to Energy plants, Cement Industry, Offshore Industry, Petro-chemical & Steel Manufacturing.



## TECH/SPEC

### arrangement

Centrifugal fans are available in either Right Hand (RD) or Left Hand (LG) rotation. Discharge orientation can be any of the standard Eurovent & ISO angles, along with any angle in between as a special design.

BFN, BLZ & BAW types are available in Single Inlet Single Width (SISW), Double Inlet Double Width (DIDW) & Plug Fan configurations.

Multiple drive arrangements are available including :- v / belt drive, direct coupled (drive through coupling) & direct drive (fan impeller mounted directly on the motor shaft).

Various bearing / impeller arrangements are available including :- Overhung impeller & impeller between bearings.

Fan inlets can be open, ducted or fitted with an inlet box.

### impeller types

**BFN** - Flat Backward Inclined

**BLZ** - Backward Curved

**BAW** - Backward Curved Aerofoil

**BLX** - Backward Curved

**BLV** - Backward Curved

**BLT** - Backward Curved

### ATEX

ATEX (II 2/3/G/D T1-T6) specification fans available for hazardous areas.

### motors

In most instances foot mounted T.E.F.C Electric motors are fitted.

The common voltages are 220, 220/380, 380, 240/415 and 460. Motors can be wound for any voltage / frequency and also for dual voltage. The use of standard foot mounted motors of this type guarantees interchangeability in most countries of the world with machines of similar speed/power.

EExd, EExnA, single phase, 2/3 speed and company specification motors can always be obtained.

### extra features

**Flexible Connections**  
**Inlet & Discharge Guards**  
**Anti-Vibration Mountings**  
**Insulated Casings**

**Acoustic Enclosures**  
**Vibration & Condition Monitoring**  
**Attenuators**  
**I.V.C. / Dampers**

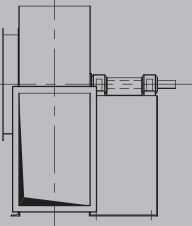
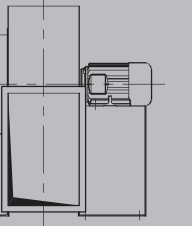
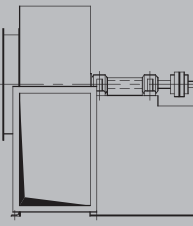
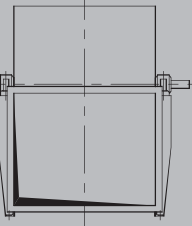
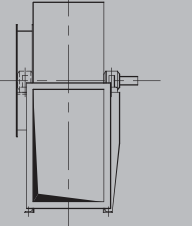
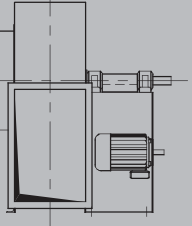
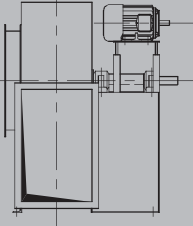
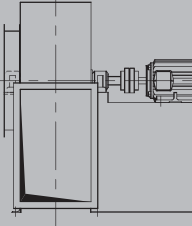
### finish

**Standard** – Zinc Phosphate

**Optional** – Epoxy Paint or Hot Dipped Galvanised or Stainless Steel















# USEFUL INFORMATION

## Standard Fan Arrangement

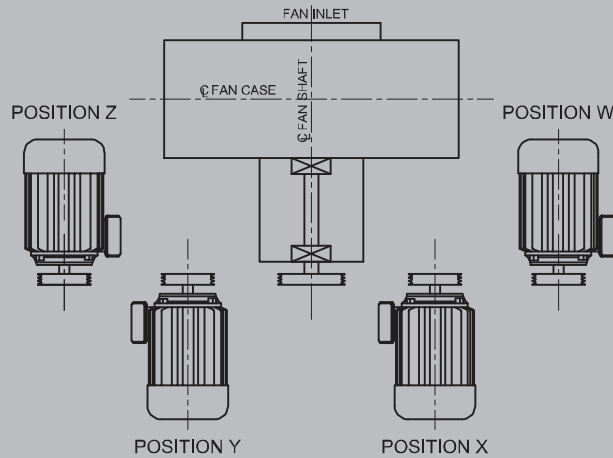
ARRANGEMENT 1		ARRANGEMENT 2		ARRANGEMENT 3		ARRANGEMENT 4	
	General overhung pulley drive with bearings mounted on full depth pedestal.		Impeller directly mounted on motor shaft and all mounted on full depth pedestal.		Impeller mounted on its own shaft and directly driven through flexible shaft coupling on full depth pedestal.		Double inlet, double width. Commonly known as D.I.D.W. with impeller mounted between bearings (both in airstream).
ARRANGEMENT 5		ARRANGEMENT 6		ARRANGEMENT 6A		ARRANGEMENT 7	
	Single inlet, single width. Commonly known as S.I.S.W. with impeller mounted between bearings.		Compact belt drive unit widely used for space saving purposes on site.		Compact belt drive unit used as an option to Arrangement 6.		Single inlet single width with impeller mounted between bearings and directly driven through flexible coupling.

## Standard Handings

As viewed from drive side

						
RD270	RD315	RD0	RD45	RD90	RD135	RD180
						
LG270	LG315	LG0	LG45	LG90	LG135	LG180

## Standard Motor Positions



Airstream works, Blackmoorfoot Rd, Crosland hill,  
Huddersfield, West Yorkshire HD4 7AA

Tel. +44 (0) 1484 462 777 sales@fanmanufacturers.com  
Fax. +44 (0) 1484 462 888 www.fanmanufacturers.com



**WOODCOCK  
& WILSON LTD**  
FANMANUFACTURERS.COM