

CENTRIFUGAL FANS

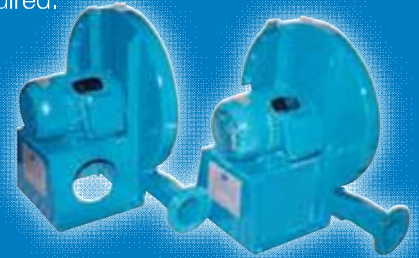
High Pressure Fans

The RL range of centrifugal fans are designed for blower or suction applications. They have fully shrouded, radial or near radial bladed impellers and have narrow blades suitable for high tip speeds & pressure developments where relatively low flow rate are required.

The PH range of centrifugal fans are suitable for blower & suction applications. They have a backplate & true radial blades. Their strong & robust design enables them to run at high tip speeds, producing a high pressure development which is

equivalent to the RL range, but flow rates are higher due to the unique blade shape. This type of fan can also be used where paddle bladed fans are required.

Typical industries include :-
Pharmaceutical,
Petro-chemical &
Fluidised bed applications.



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.

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.

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

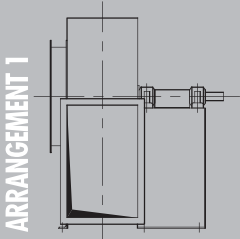
Standard – Zinc Phosphate
Optional – Epoxy Paint or Hot Dipped Galvanised or Stainless Steel

notes

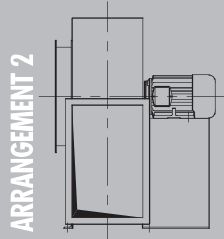
It must be noted that all these fans have an overloading power characteristic, where power increases with flow rate, up to a maximum power at maximum flow. Care must be taken not to over estimate the system pressure.

USEFUL INFORMATION

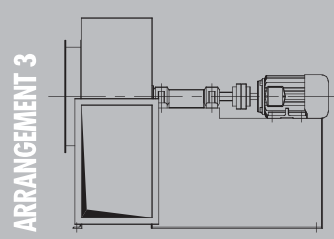
Standard Fan Arrangement



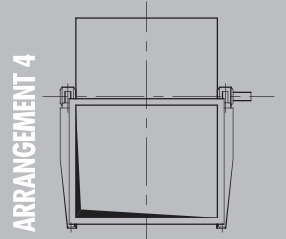
ARRANGEMENT 1
General overhung pulley drive with bearings mounted on full depth pedestal.



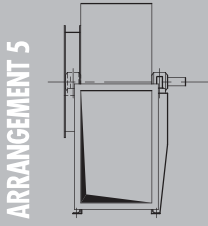
ARRANGEMENT 2
Impeller directly mounted on motor shaft and all mounted on full depth pedestal.



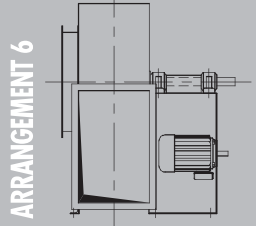
ARRANGEMENT 3
Impeller mounted on its own shaft and directly driven through flexible shaft coupling on full depth pedestal.



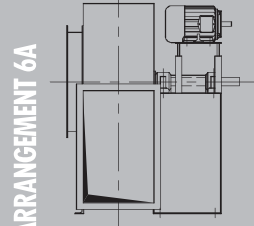
ARRANGEMENT 4
Double inlet, double width. Commonly known as D.I.D.W. with impeller mounted between bearings (both in airstream).



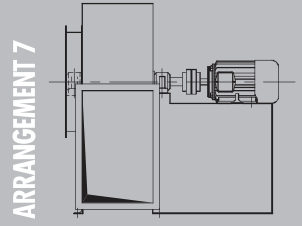
ARRANGEMENT 5
Single inlet, single width. Commonly known as S.I.S.W. with impeller mounted between bearings.



ARRANGEMENT 6
Compact belt drive unit widely used for space saving purposes on site.

















ARRANGEMENT 6A
Compact belt drive unit used as an option to Arrangement 6.



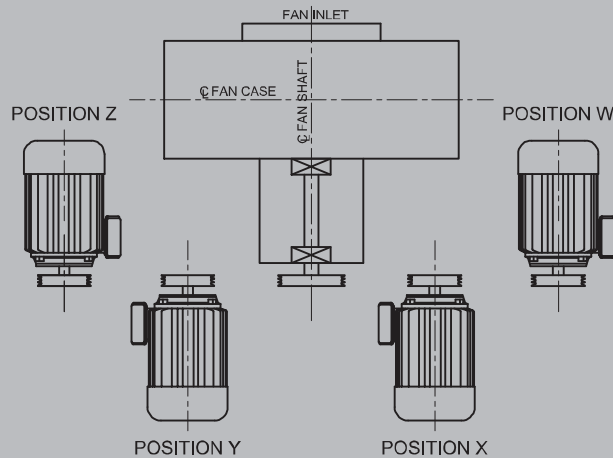
ARRANGEMENT 7
Single inlet single width with impeller mounted between bearings and directly driven through flexible coupling.

Standard Handings

As viewed from drive side

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

Standard Motor Positions



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