

CENTRIFUGAL FANS

FORWARD CURVED MULTI VANE FANS



The Forward Curved impeller is characterised by a large number of shallow blades curved forward in the direction of rotation. The impeller width to diameter is greater than a backward inclined impeller.

This extra width enables the fan to produce high flow rates at low pressures. The relatively low tip speed requirement for a particular flow rate makes this fan a low noise option.

Typical industries include :- General ventilation, Heating & ventilation, Furnace circulation.

TECH/SPEC

Up to 60 m³/sec
Up to 1.0 kPa

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.

FCM 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.

ATEX

ATEX (I1 2/3/G/D T1-T6) specification fans available for hazardous areas.

MOTOR

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.

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



FINISH

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

EXTRA FEATURES

- Flexible Connections
- Inlet & Discharge Guards
- Anti-Vibration Mountings
- Insulated Casings
- Acoustic Enclosures
- Vibration & Condition Monitoring
- Attenuators
- I.V.C. / Dampers

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.

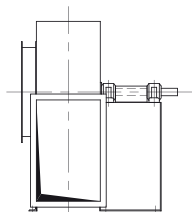


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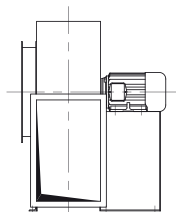
Standard Fan Arrangement

Arrangement 1



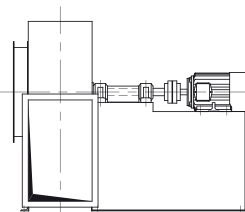
General overhung pulley drive with bearings mounted on full depth pedestal.

Arrangement 2



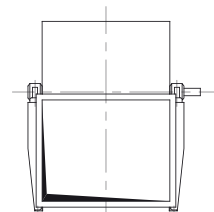
Impeller directly mounted on motor shaft and all mounted on full depth pedestal.

Arrangement 3



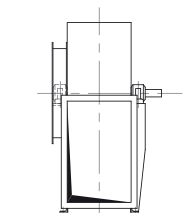
Impeller mounted on its own shaft and directly driven through exible shaft coupling on full depth pedestal.

Arrangement 4



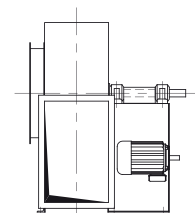
Double inlet, double width. Commonly known as D.I.D.W. with impeller mounted between bearings (both in airstream).

Arrangement 5



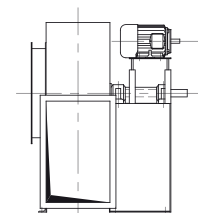
Single inlet, single width. Commonly known as S.I.S.W. with impeller mounted between bearings.

Arrangement 6



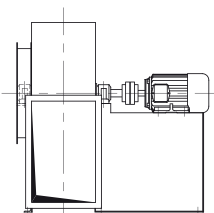
Compact belt drive unit widely used for space saving purposes on site.

Arrangement 6A



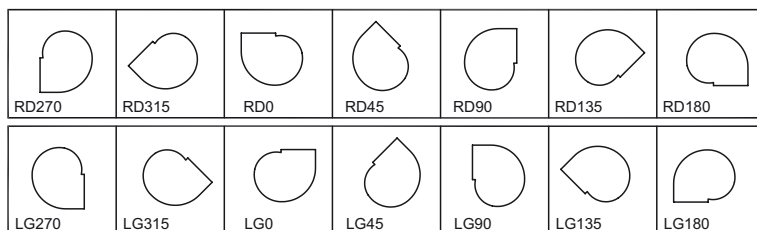
Compact belt drive unit used as an option to Arrangement 6.

Arrangement 7



Single inlet single width with impeller mounted between bearings and directly driven through exible coupling.

Standard Handings



Standard Motor Positions

