## 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.

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### TECH/SPEC

| arrangement | Centrifugal fans are available in either Right Hand (RD) or Left Hand (LH) 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 (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. EEExd, EEExnA, 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.

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**Standard Handings**

<table>
<thead>
<tr>
<th>As viewed from drive side</th>
<th>RD270</th>
<th>RD315</th>
<th>RD0</th>
<th>RD45</th>
<th>RD90</th>
<th>RD135</th>
<th>RD180</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG270</td>
<td>LG315</td>
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</tr>
</tbody>
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**Standard Motor Positions**