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.

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 D11O-W with impeller mounted between bearings (both in airstream).

ARRANGEMENT 5
Single inlet, single width. Commonly known as S1.5 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

<table>
<thead>
<tr>
<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>
<td>LG0</td>
<td>LG45</td>
<td>LG90</td>
<td>LG135</td>
<td>LG180</td>
</tr>
</tbody>
</table>

Standard Motor Positions

Woodcock & Wilson Ltd

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
Registered in England No: 0553963 VAT No: GB 108128271