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### Types of Fans - Engineering ToolBox

Axial vs Centrifugal Fans. There are two primary varieties of fan, axial fans and centrifugal fans. Pelonis Technologies, Inc. (P-TI), a global leader in fan technology for more than 25 years, manufactures both axial and centrifugal fans. To help clear up that confusion, here is a breakdown of the fan types, their benefits, and their uses.

### Axial fan design - Wikipedia

Centrifugal fans with forward blades are suited for application with higher air flow volumes and pressures. Axial propeller fans are more suited for applications with lower volumes and pressures. Axial and Propeller Fans. In an axial fan the air flows in parallel to the shaft. It is common to

classify axial fans upon their wheel like:

There are a number of fan types: impeller, axial, centrifugal, Sirocco, etc. all of which have individual benefits (volume, pressure, speed, power, efficiency, etc.) but all of them will shift gases at the same rate based upon the input power. Differences such as efficiency or flow rate occur in the type of fan due to particular design advantages that favour one characteristic over another.

An axial fan is a type of fan that causes gas to flow through it in an axial direction, parallel to the shaft about which the blades rotate. The flow is axial at entry and exit. The fan is designed to produce a pressure difference, and hence force, to cause a flow through the fan. Factors which

determine the performance of the fan include the number and shape of the blades.

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Centrifugal fans consist of an impeller in a casing having a spirally shaped contour. The air enters the impeller in an axial direction and is discharged at the impeller outer periphery. The air flow moves along the centrifugal direction (or radial direction). Sometimes centrifugal fans are called radial flow type fans.

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Centrifugal fans use a rotating impeller to move air first radially outwards by centrifugal action, and then tangentially away from the blade tips. • Incoming air moves parallel to the impeller hub and it turns radially outwards towards the perimeter of the impeller and blade tips.

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A heavy-duty air cushion vehicle usually employs centrifugal lift fans to pressurize the air cushion and power the steering thruster. The design of the lift fan system is subject to meet payload, machinery spacing, and ruggedness requirements [ 1

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A centrifugal fan is a mechanical device for moving air or other gases in a direction at an angle to the incoming fluid. Centrifugal fans often contain a ducted housing to direct outgoing air in a specific direction or across a heat sink; such a fan is also called a blower, blower fan, biscuit blower, or squirrel-cage fan. These fans increase the speed and volume of an air stream with the rotating impellers. Centrifugal fans use the kinetic energy of the impellers to increase the volume of the a

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Centrifugal fans are further classified on the basis of impeller design geometry: backward curved, airfoil, radial, and forward curved. The backward curved and the airfoil fans have the highest efficiencies among centrifugal fans. Axial fans move the air parallel to the axis of rotation. Axial fans are used to generate lower pressures (less than 12-in. w.g.) while handling large airflow rates.

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Centrifugal Fan: Types The major types of centrifugal fan are: radial, forward curved and backward curved (see Figure 5.3). Radial fans are industrial workhorses because of their high static pressures (upto 1400 mm WC) and ability to handle heavily contaminated airstreams. Because of their simple design, radial fans are well suited for high ...

## **5. FANS AND BLOWERS**

There are different types of Centrifugal Fans covering air volumes from 85 to 100,000m<sup>3</sup>/hr and from 25 to 15,000 PA. Each application requires a fan with different characteristics, whether it be the blade design, the width of the casing or

even the method of drive.

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