

Published based on [Air Compressor - An Important Industrial Component](#)

# **Air Compressor - An Important Industrial Component**

Air compressor is an essential electronic or mechanical instrument which is used by everyone in the home or office. However many people are unaware of its existence. It's present in the air conditioner or fridge in the house. Other places where air compressors are generally used are refining crops, jet engines, automotive industry etc. The size and kind of the air compressor used at every above mentioned place is of course, different.

The history of using this tools in the industry is nearly hundred years old. It is a machine with many features which makes it a choice for its wide design capacity. Air compressor provider has a wide range of compressors to go well with various needs of the domestic as well as industrial area. It's mainly used to lower the volume of air and at the same time improve the force or energy of that air.

Varied sorts of Air compressor makes it possible to fulfill the needs of the varied industrial machines. In each kind available, the method of chilling, number of staging of compression, lubrications used and power sources may differ. According to these components used, there are three basic kinds of Air compressor available at any Air compressor supplier. Rotary, centrifugal and reciprocating are the three basic kinds of air compressors. In the case of rotary air compressors, two rotating bolts are used instead of pistons. These 2 bolts rotate towards each other, thus producing a compact air flow.

This compressed air flow is then directed in the storage tank. In the reciprocating air compressors, a piston is used to compress the air. Relying on the requirements of the compression, this sort of Air compressor might be obtainable in single stage or double stage. As the name suggested, single stage uses a single piston whereas double stage compressor uses two pistons to compress the air.

The centrifugal [Air compressor](#) can also be identified by the name of dynamic compressor by Air compressor supplier. In the case of centrifugal air compressors, an impeller spinning at very high speed produces air with high speed. This high speed air is then directed towards the diffuser which converts it into an air force. This kind of compressor needs extra power to operate than the primary two types of air compressors.

Two main components of this compressor are the compressing mechanism and the power unit. The air compressing unit may include piston or vane or impellers rotating towards every other. The power unit has an electrical motor and some other source of energy which makes the movements of the compressing unit at very high speed. This kind of compressor is usually used where the air compressing requirements are very high.

The working principle of Air compressor available at [Air compressor provider](#) is very simple. It takes in the regular atmospheric air and then makes it compact and stores in a tank. Then this air can be utilized at any time when required. When the air is taken in, it is passed via a very narrow path. This path generally comprises an impeller, piston or a vane which helps to compress the air.

[AACM \(APEX AIR COMPRESSOR \(M\) SDN. BHD\)](#) has more than 15 engineers and maintenance technicians who have an average of (8 - 10) years experience dealing with Alup and many other brands of compressors. That experience means that when you choose (AACM) you get professional with the skills necessary to perform expertly and reliably.

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