

Compressor and information you need to know

Air compressors are widely used in life and production, consumers often ask a lot of questions around air compressors, please also Network Administrator in the following article.

Air compressors are classified according to the operating mechanism such as: reciprocating air compressors, convection air compressors, centrifugal compressors, mixed flow air compressors, screw air compressors, . At META is selling all kinds of air compressors with genuine origin, guaranteed goods from brands: Pegasus, Arwa, Btec, Oshima, WING . Air compressors are an important "link" in the Industrial systems use gas at high pressure to operate other machines.



Pegasus air compressor TM-W-0.36 / 12.5

There are many different types of air compressors divided by its operating mode, such as:

Convection air compressor

Convection air compressors use a system of rotors in the rotor to compress the air flow. The fixed stator propeller located at the bottom of each rotor directly pushes the airflow into the system of the rotor of the next rotor. The space of the air path is gradually decreasing through air compressors to increase compressive power.



Oshima 24L oil-free air compressor

Air compressors using convection compressors are often used when high-flow currents are needed, for example in large turbine engines. They are mostly used in many machines in a chain. In case of pressure ratio below 4: 1 ratio, to increase the efficiency of the operation process, it is often used to adjust the geometry.

Mixed flow air compressors

Mixed-flow compressed air compressors are similar to centrifugal compressors, but are symmetrical at the entrance from the rotor. Diffusers are often used to convert mixed gas streams into convection gas streams. Mixed-flow compressed air compressors have a smaller diameter diffuser of the equivalent centrifugal compressor.



Arwa AW-2040 air compressor (2HP, copper wire)

Centrifugal air compressor

Centrifugal compressors use a rotating rotor or propeller to squeeze air into the edge of the pusher, increasing the speed of the gas. The diffuser of the machine will convert the energy of speed into pressure. Centrifugal air compressors are often used in heavy industry and in continuous working environments. They are usually fixed. Their capacity can range from hundreds to thousands of horsepower. With working systems including many centrifugal compressors, they can increase the output pressure by more than 10000 lbf / in² (69 MPa).



Btec ZA-2525 2.5HP air compressor (25 liters)

Many artificial snow making systems use this type of compressor. They can use internal combustion engines, chargers or turbine engines. Centrifugal compressors are used in a small gas turbine engine or as the final compressed air of a medium-sized gas turbine engine.

Air compressor moves smoothly

The reciprocating air compressor uses rotary-controlled piston. Can be fixed or movable, can be used separately or in combination. They can be controlled by an electric motor or an internal combustion engine.

Small reciprocating piston compressors with a capacity of 5-30 horsepower are often used in automatic assembly and in non-continuous work.



Direct air compressor Oshima 24L

Large air compressors can have a capacity of up to 1000 horsepower, which is used in large industrial assemblies, but they are often not used much because they can be replaced by moving compressors. Round of gear and screw with cheaper price. The output pressure ranges from low to very high (> 5000 psi or 35 MPa). For the food industry, oil-free air compressors are relatively effective. However, because this is a special design machine, the price is relatively high.

Filter air compressor

Air compressor with filter used to compress hydrogen gas and compressed natural gas. Conventional air compressors are placed above containers to hold compressed air. Usually oil-free or oil-free air compressors are widely used because oil will enter the air stream. But in the case of air compressors for divers, a small amount of oil is not acceptable.



Wing TW-OF550 oil-free air compressor

Screw air compressor

A screw air compressor, similar to a rotary device using screw wheels, consists of two spiral-shaped rotors that compress air. A [rotary screw air compressor](#), in particular, is designed to deliver a more stable and continuous airflow, which is why it is commonly used in industrial applications. Simpler screw-based systems may be used for lighter tasks, such as automatic loading or in smaller systems.

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