

# Compare and distinguish oil-free and oil-free air compressors

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Air compressors, with only the function of increasing the gas pressure for a certain operating device, but the application of air compressors in life are considered endless. Products are commonly used in various industries and jobs such as medicine, mechanical processing, construction, manufacturing, etc. This is enough for us to understand the important role. What is the weight of air compressors. However, air compressors are usually divided into two types: oil-free air compressors and oil-filled air compressors. Why split 2 types of compressors at that time, will these differences create advantages and disadvantages of air compressors? Please refer to the following article!

See also "Air compressors and what you need to know"

## What are oil compressors?

Air compressor with Piston-type oil in operation, it will contain a small amount of oil vapor in blowing air. For these types of oil-filled air compressors it is often used in automotive garages, industry, construction, engineering, .

**Example of Btec ZB-2525 air compressor (25 liters) with a capacity of 2.5HP:**



## **What is an oil-free air compressor?**

Many people often think that oil-free air compressors are the ones that don't use oil as a raw material for the operation but use a different fuel source. However, in fact, the machine still uses oil, but inside it is usually designed with crankshaft box without oil, so the amount of gas going - into the pneumatic chamber does not carry oil. The amount of gas produced is completely 100% clean gas.

**Example of Oshima oil-free air compressor 24L capacity 2HP:**



## The difference between oil-free air compressors and oil-free air compressors

### Advantages and disadvantages of oil-free air compressors

Oil-free air compressors still use lubricating oil, however the crankshaft box design has no oil or is cooled with water. Therefore, the gas generated is clean, free from vapor, odorless and pure. **Oil-free air compressors are more expensive than oil-filled compressors**, because the processing of this type of machine is more demanding. This type of machine has a long lifespan of compressors when there is oil, the reason is not to use oil to lubricate the compression shaft, the friction increases, leading to more damage.

The oil-free air compressor is 100% clean, so the product is perfectly suitable for wide application in the medical, food, pharmaceutical, . industries.

### Advantages and disadvantages of oil-filled air compressors

In general, compressors with oil have lower cost and higher durability, thanks to oil, which prevents the wear and tear in the parts of the machine. This machine is often used in heavy industry, with no high demands on the cleanliness of the gas.

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