



# Compressed Air Line Filter

Product Description working principle Product Type Application

## Product Description

Compressed air filters, often referred to as line filters, are used to remove contaminants from compressed air after compression has taken place. Alternative brands are **Hankison, Domnick Hunter, Parker, BEA, Sullair, Hiross, Atlas Copco, Ultrafilter, Zander, SMC** etc.

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## Working Principle

The filter element is an important part of the filter. When the mixed gas containing impurities passes through the filter element, the liquid, oil mist, solid particles, oil vapor, hydrocarbons, odors, bacteria, etc. in the mixed gas are filtered out, general and in other words, with the exception of very few filter elements that are regenerative, the filter element will be used for a period of time.

## Product Type

### Particulate filters

Particulate compressed air filters are used to remove dust and particles from the air.

### Activated carbon filters

Activated carbon filters utilize a composite carbon material to remove gases and odors from the air [3] They are used in factories where food is produced or for breathing gas.

### Coalescing filters

High oil compressed air coalescing filters remove water and oil aerosols by coalescing the aerosols into droplets. This happens partially because of tortuous path and pressure drop. Coalescers remove both water and oil aerosols from the air stream, and are rated at particulate contamination through direct interception. Filtration of oil, water aerosols, dust and dirt particles to 0.01 μm the best achievable in industry.

### Cold coalescing filters

Cold coalescing filters are coalescing filters operated at around 35 °F (2 °C), allowing them to be more effective at removing moistures.

### Compressed intake filters

Intake filters are the first line of defense in filtering. These filters can remove contaminants down to 0.3 μm and can remove chemical contaminants.

## Features

Compressed air is an important power that is widely used in various fields of industry. The compressed air in all compressed air systems comes from the atmosphere, which contains large amounts of dust, water vapor, and underburned hydrocarbons and bacteria. In addition, air compressor lubrication systems generate contaminants such as wear particles and oil. Even oil-free compressors produce these substances. This oil is acidic and is an inferior oil that does not have any lubricating effect.

## Technical parameters

Media material: Glass fiber

Filtration Accuracy: 0.01 μm

Working Temperature: 80°C

0.02bar/ Nominal Pressure: 0.02bar

Application field: air compressor post filter

## Application

Widely used in steel, electric power, metallurgy, shipbuilding, textile, electronics, chemical industry, petroleum, mining, light industry, machinery manufacturing, paper printing, transportation facilities, food and medicine, casting spraying, marine terminals, military technology, automobile industry, aerospace, infrastructure, etc.

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