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晶元[®] Diesel Fuel Filtration Systems

Diesel fuel filtration systems are designed to remove harmful contaminants like particulate and water to improve your equipment's fuel efficiency, performance and overall reliability. Left untreated, water contamination can lead to microbial growth and cause corrosion to holding tanks and fuel systems.

Diesel Fuel Filtration System Process

The diesel fuel filtration system is a multi-stage filtration process that separates any particulates that could have infiltrated the tank while filling or passing through fuel lines. Fuel filters are essential for any any fuel system, not just diesel, however they are especially important in diesel systems because of the increased viscosity of diesel fuel compared to gasoline. Diesel can often contain more particulates that can lead to damaging the injection pump.

Bulk Fuel Filtration Systems



Filtration Applications

Common applications include polishing fuel for power generation applications, and bulk fuel storage at data centers, hospitals, mining operations, marine terminals & military facilities or any other installation where fuel quality and reliability is critical.

Diesel Fuel Conditioning

Our diesel fuel conditioning systems are multistage and include filtration and water separation units that utilize the latest technology for fine particle and water content removal.





The Jingyuan membrane filter plays a role in filtering, purifying, and polishing diesel fuel.

Product Series: JINGYUAN offers a wide range of primary, secondary, and final filtration systems suitable for large tanks and mobile units. These systems utilize proprietary filtration technology, ensuring outstanding filtration efficiency.

JINGYUAN's products are specifically developed for the fuel sector in Africa and Southeast Asia, addressing the common high pollution levels in these regions. The applications of their products include the transportation and reception of fuel tanks, mobile equipment such as small trucks, tractors, harvesters, trucks, and generators, tank transfer, tank cleaning, kidney-shaped filtration, as well as mobile trailers/fuel trucks and tank trucks.

Jingyuan membrane filters play a crucial role in diesel fuel filtration and purification. These filters utilize Jingyuan membrane technology with microporous membrane filter materials, efficiently separating and removing impurities and contaminants from diesel fuel. Here is how Jingyuan membrane filters contribute to diesel filtration and purification:

- 1. Impurity Removal: Jingyuan membrane filters effectively eliminate solid impurities present in diesel, such as dust, particulates, microorganisms, and other contaminants. This helps prevent these impurities from entering the fuel and reduces damage to the engine and injection system.
- 2. Water Separation: Diesel may contain water, which can lead to corrosion in the fuel system and promote bacterial growth. Jingyuan membrane filters efficiently separate and remove water, keeping the diesel dry and clean.
- 3. **Reduction of Harmful Substances:** Diesel fuel may contain sulfur, nitrogen, and other harmful substances that produce noxious gases and particulates during combustion. Jingyuan membrane filters reduce the levels of these harmful substances in diesel, thereby reducing the environmental impact of emissions.
- 4. **Enhanced Fuel Efficiency:** By removing impurities, water, and harmful substances, Jingyuan membrane filters improve the quality of diesel, resulting in enhanced fuel efficiency and engine performance.
- 5. Environmental Benefits: Reducing emissions and lowering the discharge of harmful substances contribute to reducing air and environmental pollution.

In summary, Jingyuan membrane filters provide an efficient solution for diesel fuel filtration and purification, helping protect engines, improving fuel efficiency, and reducing environmental pollution. These filters find applications across various industrial sectors, delivering high-quality diesel treatment solutions to customers.



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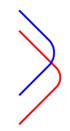
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Flow rates ranging from 9,000 to 15,000 gallons per hour are available for selection. Our high-flow precision filter is the most advanced and cost-effective product, featuring radial flow design for highly efficient oil filtration. It offers a range of innovative solutions with flexible, customizable modular structures and robust functionality.

Skid-mounted and modular designs enhance processing efficiency while reducing operational costs. This system can adapt to various industrial filtration needs, providing an exceptionally large filtration area and an extended service life. It effectively captures and separates impurities, colloids, and water from oil, significantly elevating the cleanliness level of filtered oil.

It is the preferred choice for high-standard oil quality control, complying with national environmental regulations and featuring non-polluting consumables with no oil loss. We offer membrane filter cores with various filtration precision levels. The high-polymer membrane filter core can be reused after air blowing, saving consumable costs.

The equipment is easy to operate, and a dedicated after-sales team provides follow-up services to ensure your peace of mind. This system finds extensive use in oil purification and filtration facilities



晶元[®]JY-DX40 Diesel Fuel Filtration Systems

Membrane Technology Precision Filtration Systems.

Technical Parameters:

Model: JY-DX40

Flow Rate: 40m³/h

Filtration Precision: 2~15µm (selectable according to system requirements)

Filtration Material: Crystalline Polymer Membrane Material

Operating Pressure: 0.2~0.3Mpa

Smart Hardware: Industrial IoT Wireless Data Transmission

Flow Monitoring: Real-time Flow Data Monitoring via Mobile App

Measurement: Quantitative Filtration, Cumulative Flow, Instantaneous Flow

Motor Power: 7.5KW, 380V

Pump Type: Centrifugal Pump/Gear Pump

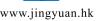
Pre-filter: Y

Inlet/Outlet Pipe Diameter: DN80 (3 inches)

Compatible Fluids: Diesel, Aviation Kerosene, Gasoline, Lubricating Oil, and other liquids (customizable

Dimensions: 2700×1400×2050mm





J30-988 L/H



0.5~25µm



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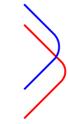
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晶元[®]JY-DL60 Diesel Fuel Filtration Systems

Membrane Technology Precision Filtration Systems.

Technical Parameters:

Model: JY-DL60

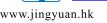
- + Flow Rate: 60~80m³/h
- + Filtration Precision: 2~15µm (selectable according to system requirements)
- + Filtration Material: Crystalline Polymer Membrane Material
- + Filter Membrane Assemblies: 12 sets
- + Operating Pressure: 0.2~0.3MPa
- + Smart Hardware: Industrial IoT Wireless Data Transmission
- + Flow Monitoring: Real-time Flow Data Monitoring via Mobile App
- + Measurement: Quantitative Filtration, Cumulative Flow, Instantaneous Flow
- + Inlet/Outlet Pipe Diameter: DN100 (4 inches)
- + Compatible Fluids: Diesel, Aviation Kerosene, Gasoline, Lubricating Oil, and other liquids (customizable)
- + Dimensions: 3850×1700×2400mm

Note: The flow rate may vary depending on the type, quality, viscosity of the oil, equipment maintenance, and other factors; it is not an absolute value.











Microporous Membrane Materia

0.5~25µm

Membrane filter order models

J30-988 L/H



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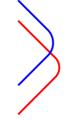
The equipment is easy to operate, and a dedicated after-sales team provides follow-up services to ensure your peace of mind. This system finds extensive use in oil purification and filtration facilities such as oil depots, refineries, and gas stations.



Microporous Membrane Materials







晶元[®]JY-Q325 Diesel Fuel Filtration Systems

Membrane Technology Skid-Mounted Filtration Systems.

Technical Parameters:

Model: JY-O325

- + Flow Rate: 40m3/h
- + Filtration Precision: 2~15µm (selectable according to system requirements)
- + Filtration Material: Crystalline Polymer Membrane Material
- + Operating Pressure: 0.2-0.3Mpa
- + Smart Hardware: Industrial IoT Wireless Data Transmission
- + Flow Monitoring: Real-time Flow Data Monitoring via Mobile App
- + Measurement: Quantitative Filtration, Cumulative Flow, Instantaneous Flow
- + Motor Power: 7.5KW, 380V
- + Pump Type: Centrifugal Pump/Gear Pump
- + Pre-filter: Y
- + Inlet/Outlet Pipe Diameter: DN80 (3 inches)
- + Compatible Fluids: Diesel, Aviation Kerosene, Gasoline (customizable), Lubricating Oil, and other liquids (customizable)
- + Dimensions: 3040×1700×2340mm





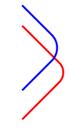




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晶元[®] Diesel Fuel Filtration Systems

JY-DX5 Portable Modular Oil Purification Filter

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This model is a block-based, modular design product. Customers can customize it according to their different flow rate requirements. It uses advanced Jingyuan membrane filtration materials to balance oil flow and filtration effectiveness, allowing for maximum flow while effectively filtering specific impurities and moisture. It can achieve high efficiency with minimal back pressure and maximum flow. Its uniformly distributed membrane micropores provide excellent filtration and separation performance and support cleaning and backwashing operations.

Applications include:

- + Removing free water and impurities from petroleum or mineral oil products to improve product quality.
- + Clarification and removal of visible particles.
- + Addressing oil turbidity caused by tiny suspended particles, impurities, water, and colloids.
- + High efficiency, energy-saving, environmentally friendly, overall safety, and compliance.
- + Block-based design for easier installation, use, and maintenance. Its compact design requires minimal space and allows for easy relocation.

Technical Parameters:

Model: JY-DX5

Flow Rate: 5 tons per hour

Filtration Precision: 2~15µm (selectable according to system requirements)

Filtration Material: Crystalline Polymer Membrane Material

Operating Pressure: 0.2-0.3 MPa

Pre-filter: Y

Inlet/Outlet Pipe Diameter: DN80 (3 inches) Compatible Fluids: Light Diesel, Aviation Kerosene, Lubricating Oil, and other liquids (customizable) Dimensions: 1250×1000×2160mm

JY-210 Small Diesel Purification Foter

Technical Parameters:

Model: JY-210

Flow Rate: 15 liters per minute (Max)

Filtration Precision: 2~15µm (selectable according to system requirements)

Filtration Material: Crystalline Polymer Membrane Material

Operating Pressure: 0.1-0.3 MPa

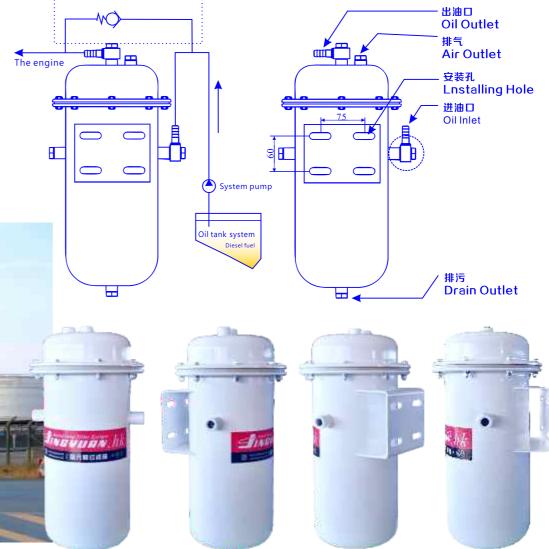
Interface Size: M14×1.5

Compatible Fluids: Light Diesel, Aviation Kerosene, Lubricating Oil, and other liquids (cu

Dimensions: 205×460mm

Function: Removes impurities, colloids, and moisture from diesel fuel. Applications: Can be installed in various construction machinery and vehicles,

large mining vehicles, power generators, etc.



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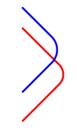


Diesel Fuel Filtration Systems

Particulate and water removal

solutions for diesel fuel applications





Mobile Filtration and Purification Equipment Diesel Fuel Filtration Systems

Technical Parameters:

Model: JY-T32A

Flow Rate: 50-80 liters per minute (Max)

Filtration Precision: 5~25µm (selectable according to system requirements)

Filtration Material: Crystalline Polymer Membrane Material

Operating Pressure: 0.2-0.3 MPa Voltage: DC12V/24V, 220V/380V

Interface Size: Dn25

Compatible Fluids: Light Diesel, Aviation Kerosene, Lubricating Oil,

(customizable)

Dimensions: 680×480×880mm

> Dual filter, secondary filtration

> Filtering new oil for addition to equipment, pumping oil stored in tanks or tanks into the system tank

> Purifying oil in use to improve the filtration performance of existing systems

> Removing water from the system, effectively separating impurities, colloids, water, and tiny suspended particles in the oil

> Significantly extending the service life of the oil

≥Providing membrane filter cores with various filtration precisions; high molecular weight membrane filter cores can be reused after air blowing, saving consumable costs

> Suitable for engine oil, hydraulic oil, lubricating oil, gear oil, diesel, and other







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JY-DM50

JY-219A Model: JY-219A

Flow Rate: 20-40 liters per minute (Max) Filtration Precision: 5~25µm (selectable according to system requirements)

Filtration Material: Crystalline Polymer Membrane Material

Operating Pressure: 0.2-0.3 MPa Voltage: DC12V/24V, 220V/380V

Interface Size: Dn25

Compatible Fluids: Diesel, Aviation

Model: JY-DM50

Flow Rate: 20-40 liters per minute (Max)

Filtration Precision: 5~20µm (selectable according to

DM50

system requirements)

Filtration Material: Crystalline Polymer Membrane

Operating Pressure: 0.2-0.3 MPa Voltage: DC12V/24V, 220V/380V

Interface Size: Dn20

Compatible Fluids: Diesel, Aviation Kerosene, and

other liquids (customizable) Dimensions: 700×650×1000mm

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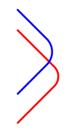








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