



**KAYDON FILTRATION**  
Filtration Group®

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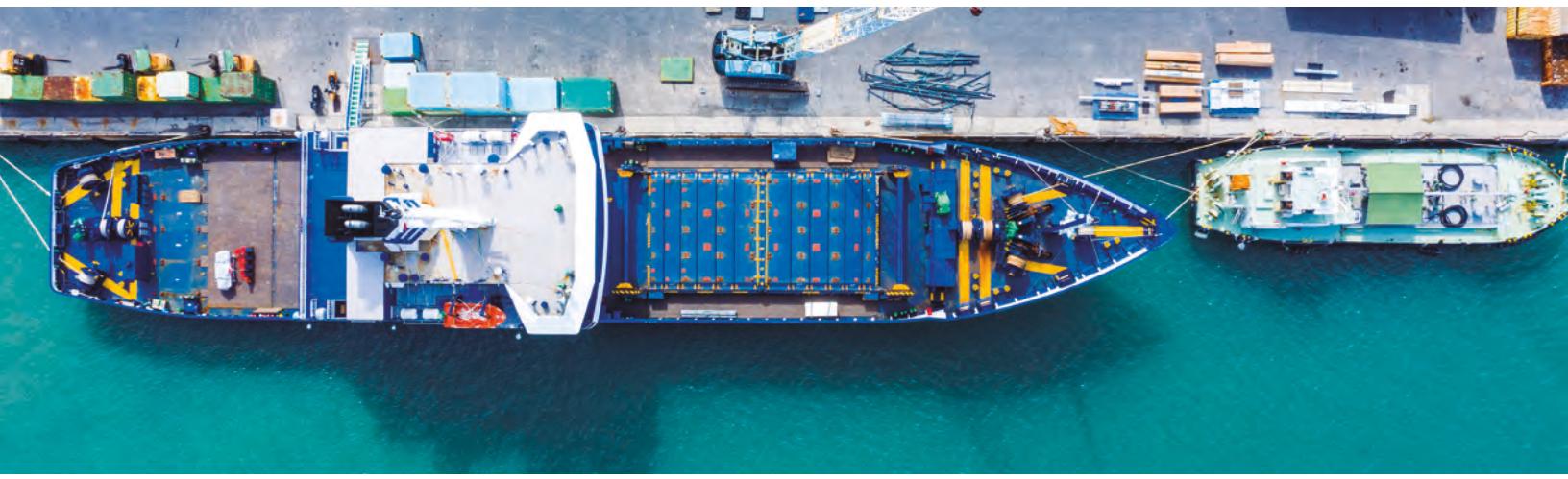
# MARINE FILTRATION SOLUTIONS

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Making the world safer,  
healthier and more productive®



# KAYDON FILTRATION



With over 80 years of experience, Kaydon Filtration is a trusted global leader specializing in protecting mission-critical fluids.

Our mission is to help our customers reduce downtime, extend equipment life, and meet environmental goals through reliable and efficient solutions that build lasting partnerships.

The relentless and corrosive marine environment presents significant operational challenges. Exposure to saltwater, high humidity, and continuous vibration accelerates contamination, directly threatening critical machinery.

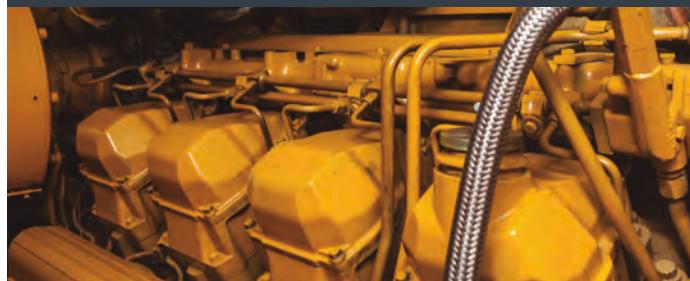
**Kaydon's specialized systems are engineered to counteract these threats by:**

- **Mitigating Component Corrosion:** Built for durability against harsh saltwater exposure
- **Preventing Microbial Growth:** Protecting fuel systems from biological contamination
- **Maximizing Component Lifespan:** Eliminating abrasive particulates and wear contaminants from critical lube and hydraulic oils
- **Ensuring Environmental Compliance:** Facilitating adherence to strict maritime regulations

Our robust solutions protect your critical equipment and support reliable, uninterrupted performance at sea for the world's most demanding commercial and industrial vessels.

## Protecting Your Core Assets

Protecting vessel stability requires safeguarding core power, lubrication, and environmental systems. Kaydon delivers proven, mission-critical solutions across four essential fluid streams onboard any type of vessel, directly addressing the unique contamination challenges of each.



### DIESEL PURIFICATION

Fuel purification is essential for maintaining the integrity of diesel fuel in both bulk transfer and point-of-use applications. These advanced systems:

- Remove solid contaminants, water, and other impurities from diesel fuel
- Safeguard essential engine components
- Minimize injector failures and unplanned downtime

These systems deliver industry-leading fuel cleanliness with minimal operating costs and an economical footprint.



### LUBE & HYDRAULIC OIL FILTRATION

Our Lube & Hydraulic Oil Filtration systems are essential for maintaining equipment reliability and operational efficiency across industrial applications. These advanced solutions:

- Protect critical machinery from contamination-related failures
- Extend equipment life and reduce unscheduled maintenance
- Offer versatile, high-capacity designs suitable for portable or offline filtration

Designed for durability, these solutions maximize productivity and uptime in demanding marine environments.



### CRITICAL FUEL SYSTEMS

Our Critical Fuel Systems deliver contaminant-free fuel to backup generators in mission-critical applications, ensuring the reliability of the world's most advanced diesel engines.

- Combat water contamination, microbial growth, and premature fuel degradation
- Maintain fuel quality standards during high usage events
- Accommodate green fuel products such as HVO and Biodiesel blends

They provide a complete, economical, and versatile solution for continuous bulk fuel conditioning or single-pass polishing.



### OILY WATER SEPARATION

Our Oily Water Separators remove free hydrocarbons from contaminated water for bilge and wastewater discharge compliance. These advanced systems:

- Guarantee compliance with strict maritime standards for discharged water
- Remove hydrocarbons using high-performance MPak® technology
- Provide a robust, low-maintenance design for continuous operation

Kaydon OWS systems ensure strict compliance, protecting against fines and upholding environmental stewardship.

# ADVANCED DIESEL FUEL PURIFICATION

## Engineered for Clean, Reliable Diesel

Modern diesel engines demand fuel meeting the highest cleanliness and dryness standards. Trace amounts of water or particulates cause injector fouling, corrosion, and costly failures. Kaydon's purification solutions remove water and sediment, exceeding the latest ASTM and OEM requirements for marine fuel quality.



### Maximized Equipment Reliability and Uptime

Clean diesel reduces the risk of unexpected breakdowns and ensures critical equipment runs when it's needed most



### Lower Maintenance Costs and Extended Equipment Life

Eliminating contaminants that cause corrosion and wear extends the life of fuel system components and reduces both maintenance frequency and cost



### Improved Fuel Efficiency and Performance

Clean diesel ensures complete combustion, delivering better fuel economy, more power, and boosting operational productivity

## Fuel/Water Separation

### Eliminating Water Contamination to Preserve Diesel Fuel Integrity

Water contamination significantly reduces storage life and risks costly fouling or failures. Consistent removal safeguards components and ensures reliability.



#### Single Pass Vessel

##### 851E Series

Kaydon's 851E filters utilize advanced coalescing technology to remove free and emulsified water. They ensure delivery of clean diesel, preventing costly damage and downtime, which extends component life.



#### Recirculation Skid

##### MS Series

The MS Series Recirculation Skid combines particulate and water separation. It uses an integrated pump to continuously polish bulk storage tanks, guaranteeing 100% removal of free water and protecting critical engine components.

## Particulate Filtration

Advanced filtration protects vital components from particulates, preventing costly breakdowns and ensuring maximum uptime.



#### VKS Series

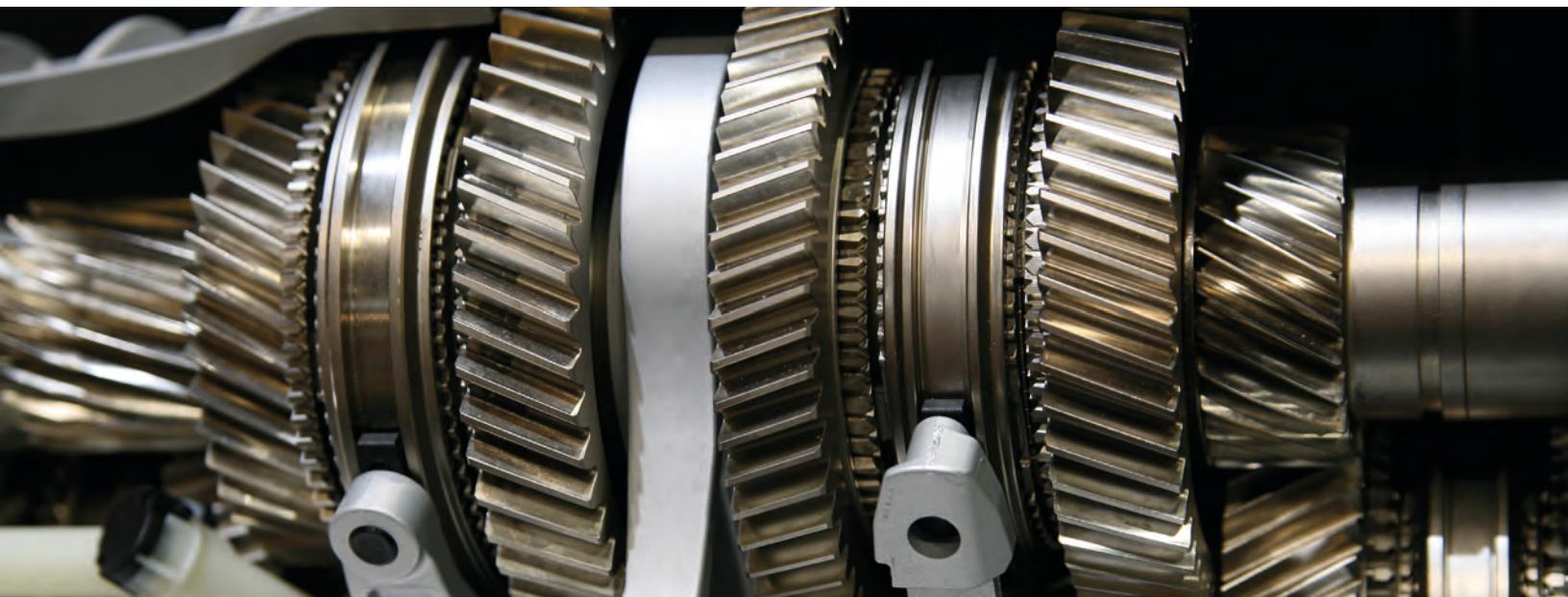
Built to ASME Section VIII standards, the rugged VKS provides code-compliant filtration for certified pressure vessels; it includes a Coast Guard configuration and a high-efficiency Kaydon filter element.



#### V Series

The V particulate vessels offer dependable filtration in a streamlined, non-code-stamped design, stocked for quick delivery, and are ideal for projects not requiring ASME certification.

# LUBE & HYDRAULIC OIL FILTRATION



## Oil Conditioning: Extending Component Life At Sea

Effective oil filtration is critical for maintaining the reliability and longevity of all rotating equipment onboard. In the marine environment, water intrusion and particulate contamination in lube and hydraulic oil can quickly lead to increased wear, reduced efficiency, and unexpected failures.

Protecting main propulsion components, gearboxes, and sensitive hydraulic systems from these threats is essential for minimizing unscheduled maintenance and costly downtime.



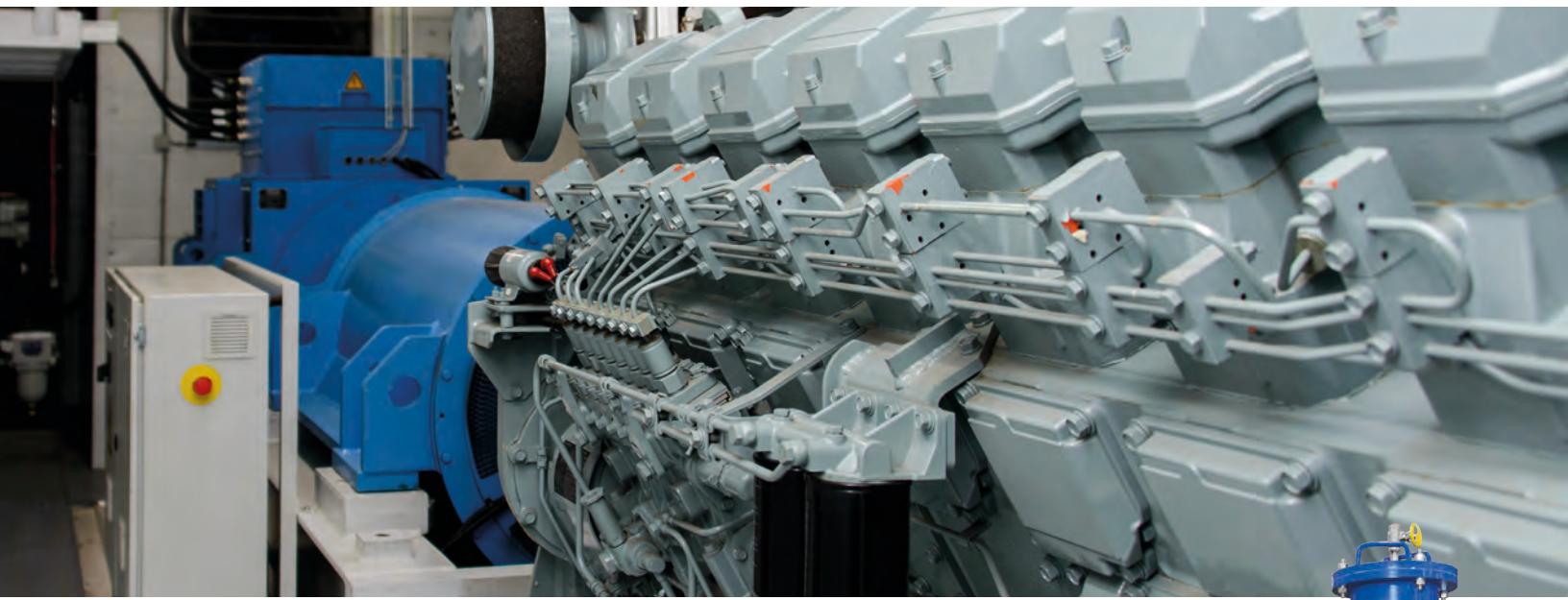
### In-line Filter Housing

#### 981 Series

The Model 981 delivers dependable filtration performance in a reduced footprint, helping extend equipment life and reduce the risk of oil-related failures and unplanned maintenance.

- **High-Performance Filtration:** Designed for reliable, high-pressure inline filtration in hydraulic and lube oil systems, supporting flows up to 20 gpm and pressures up to 1,200 psig.
- **Compact & Rugged:** Ideal for small hydraulic power units, lube systems, and auxiliary marine equipment where space is at a premium.
- **Superior Protection:** Offers a more robust and durable alternative to standard spin-on filters, providing enhanced protection for critical components.
- **Flexible Design:** Accommodates 4-inch filter elements with multiple micron ratings for tailored particulate removal

# CRITICAL FUEL FILTRATION SYSTEMS



## Uninterrupted Power: Reliability for Backup Generators

In mission-critical marine operations, the integrity of backup and emergency power fuel is paramount for vessel safety and control systems. Kaydon's Critical Fuel Systems are standalone solutions designed to actively maintain fuel cleanliness and dryness in generator storage tanks, ensuring instantaneous engine reliability when you need it most.

### Dedicated Fuel Conditioning Solutions

Kaydon offers a complete range of automated solutions—from compact skids to single-pass vessels—engineered for continuous offline conditioning of bulk fuel tanks that feed backup generators. These systems leverage purification experience to deliver fuel quality that exceeds the most stringent OEM and industry standards.



#### Comprehensive Contamination Control

Continuously removes water and particulates while actively preventing microbial growth and fuel degradation during storage



#### Green Fuel Compatibility

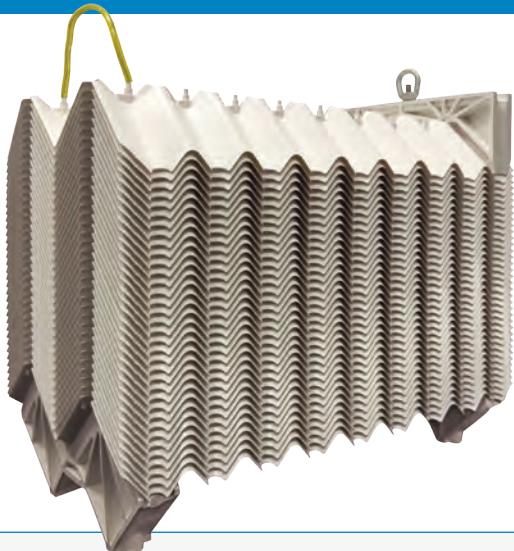
Supports the use of modern fuel compositions, including Hydrotreated Vegetable Oil (HVO)



#### Flexible Deployment

Available in diverse flow rates and installation types (recirculation, transfer, mobile) for tailored operational needs

# OILY WATER SEPARATION



## MPak® Coalescing Plates

### Versatile Technology for Reliable Oily Water Treatment

MPak® coalescing plates efficiently separate oil and solids from water in a wide range of demanding environments. Made from a special oleophilic material, these plates encourage oil droplets to merge and rise to the surface, while solids settle below for easy removal. The customizable, modular design allows for straightforward installation, retrofitting, and maintenance, ensuring reliable performance with minimal upkeep.

#### Custom Retrofit Solutions Tailored to Your System

MPak® coalescing plates are engineered for effortless integration into virtually any existing oil water separator. Regardless of your application or current system configuration, our team will design a customized solution to fit your specific requirements.

#### KEY FEATURES



##### Maximized Surface Area, Minimized Footprint

Bi-directional corrugation increases surface area for superior separation while reducing the overall system footprint



##### Modular, Customizable Design

Multiple plate spacing configurations and sizes available, allowing for flexible installation and customized design



##### Single-Stage Efficiency

Engineered for single-stage operation, MPak® technology simplifies system design and improves reliability



##### Easy In-Place Cleaning

Plates can be cleaned without removal, minimizing downtime and maintenance effort



##### Durable, Non-Consumable Design

Constructed for long life, requiring no consumable filters or replacement parts

## Superior Oil-Water Separation for Demanding Environments

MAS Series Vaults and Pollution Prevention Systems feature MPak® Coalescing Plates for high-efficiency oil-water separation.

With advanced monitoring and alarm capabilities, they ensure compliance and operational reliability.

The versatile design works in both pump-fed and gravity-fed configurations, and all systems are EN-858-1 certified to meet international standards.

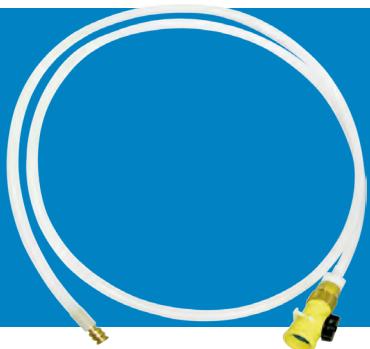


#### Key Advantages

- Robust construction for offshore environments
- Engineered to support extended maintenance intervals
- Approved vendor for major offshore and marine projects
- Comprehensive training services available for safe, effective operation

## MPAK® CLEANING WAND

MPak® plates are designed for low-maintenance operation. The MPak® Cleaning Wand makes routine cleaning simple and fast, allowing you to remove accumulated solids directly in place without system disassembly. This efficient cleaning process ensures peak performance with minimal downtime.



## APPLICATIONS

- Port Facilities (Shipyards, Marinas, Fueling Terminals)
- Marine Vessels & Rigs
- Floating Infrastructure
- Offshore O&G Platforms
- Offshore Wind Farm Substations



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