

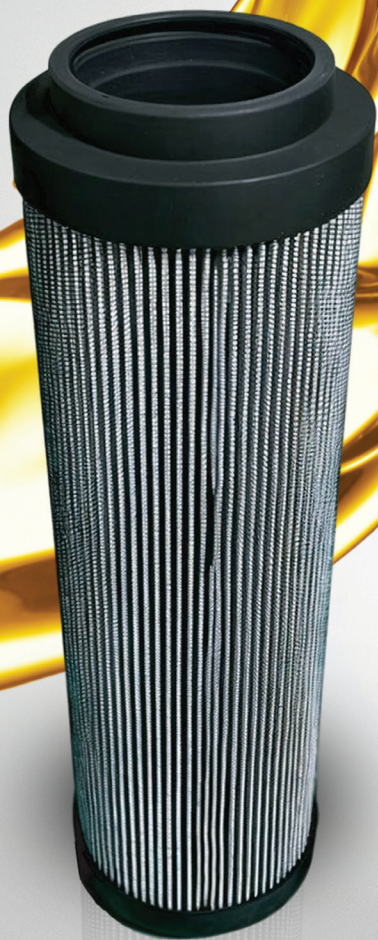
KØBN FILTERS



KØBN GENERAL ELECTRIC SOLUTION

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HYDRAULIC FILTER **KOHF**

Hydraulic Filter Elements – Pleated Cartridge Type

These pleated hydraulic filter elements are designed to deliver high-efficiency filtration in industrial and mobile hydraulic systems. Their pleated media structure increases surface area, allowing for greater dirt-holding capacity and longer service life.

End Caps and Core Construction

Made of durable plastic or metal (depending on application) to withstand system pressure and ensure structural integrity.

High Flow and Dirt Capacity

The pleated design maximizes surface area, making these filters ideal for high-flow systems.

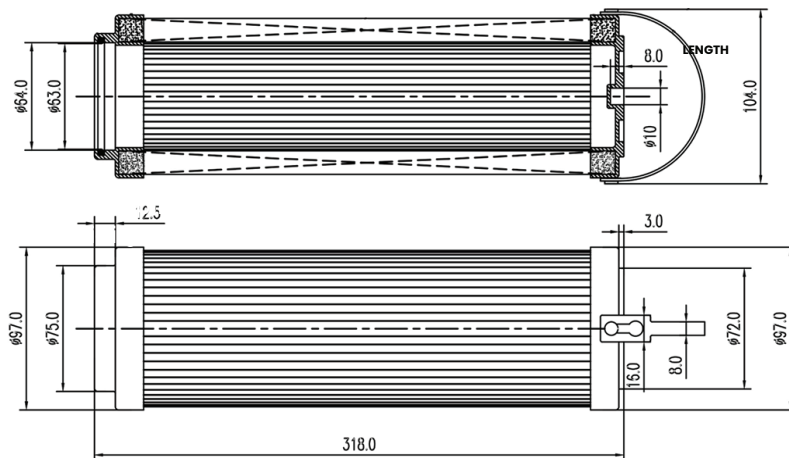
Compatibility

Suitable for a wide range of hydraulic oils and fluids including mineral oils, synthetic fluids, and emulsions

APPLICATIONS

- » Pressure and return lines in hydraulic systems
- » Power units in industrial machines
- » Mobile equipment (excavators, loaders, forklifts)
- » Lubrication and cooling systems

Product diagram



ATTRIBUTES

Outer Diameter:	96.9 mm(± 0.5 -1mm)
Inner Diameter:	74.6 mm(± 0.5 -1mm)
Filter material	High quality Fiberglass
Overall Length	318 mm(± 0.5 -1 mm)
Filtration accuracy	10 micron
Number of pleats	66 Pleats

Key features

- Pleated Microglass/Synthetic Media
- Ensures fine filtration with low pressure drop. Typically available in ratings from 3 to 25 microns.



PULSE

GAS TURBINE AIR FILTER



Description

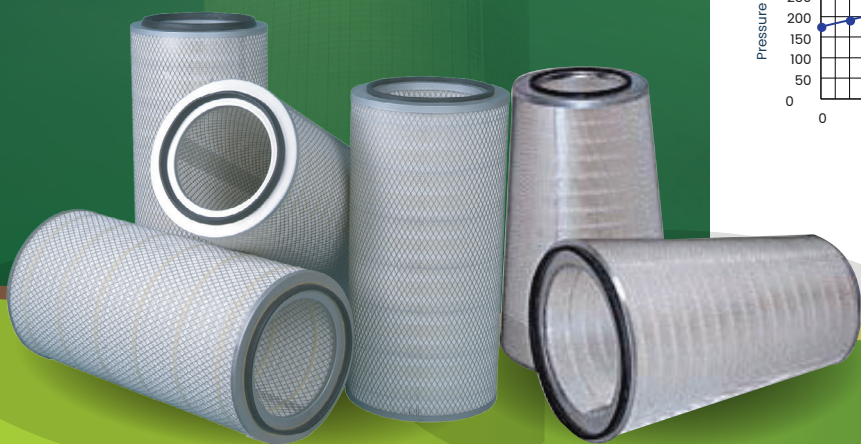
Gas Turbine Filters are specialized filters designed to remove airborne particles and contaminants from the gas turbine air intake system. These turbine filters are essential for maintaining the performance and efficiency of gas turbines by preventing the ingress of harmful particles that can cause fouling, erosion, and damage to turbine components. Additionally, the turbine air filters help maintain stable airflow, prevent pressure drop, and reduce the risk of fouling and degradation of the turbine's performance. Regular maintenance and replacement of these filters are crucial to ensure optimal filtration efficiency and the proper functioning of gas turbine air intake systems.

CYLINDRICAL (KOF CY) & CONICAL (KOF CO) TYPE

KOFC series enhances the cost-efficiency of gas turbines and compressors significantly with their optimum pressure drop characteristics and maximized useful lifetimes, and We have special gas turbine filter materials for different working conditions.

Features:

- » Innovative high strength synthetic micro-glass-fiber nonwoven with water repellent coating and High-strength blended micro-fiber and cellulose media with water repellent coating can be selected.
- » Can be better applied to reverse pulse blowing in the high humidity situation.
- » Large area design, uniform pleat spacing for maximum dust holding capacity guarantee the filtering air flow.
- » The gas turbine air filter medium offers excellent initial efficiency, high dust holding capacity, low pressure drop and high cost efficiency.
- » Inside and outside metal support, anti-rust galvanized end cover
- » Special elastic rubber sealing ring. Scope of application: apply to inlet filtering of compressor of gas turbine (GE, SOLAR, SIEMENS, ALSTOM, MITSUBISHI)



Dimension (KOFco)



TOP DIAMETER	OD324mm*ID213mm.
BOTTOM DIAMETER	OD324mm (with 30mm hole).
LENGTH	660mm (or customized)

Dimension (KOFcy)



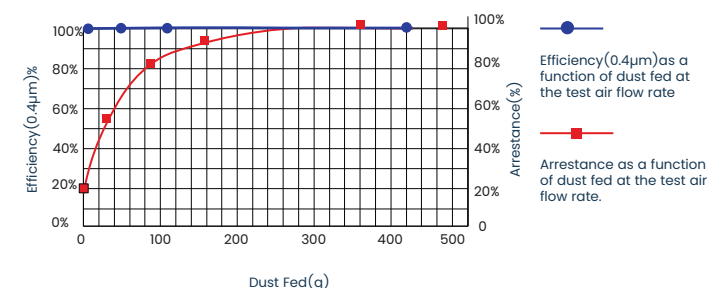
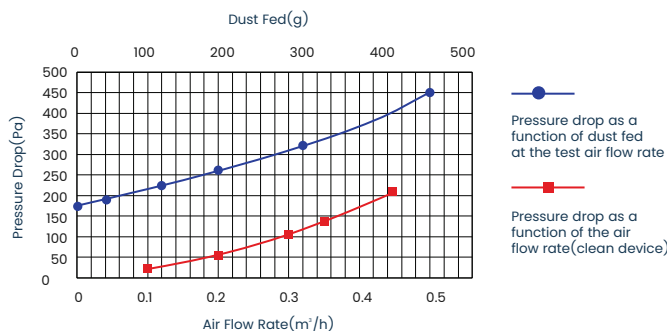
TOP DIAMETER	OD445mm*ID330mm.
BOTTOM DIAMETER	OD324mm*ID213mm.
LENGTH	660mm.

MATERIAL SELECTION:

1. High-efficiency filter media

Delivers adequate protection for the gas turbine and long filtration lifetime in dry environments, in addition, our unique blend of synthetic and cellulose fibers delivers lower pressure drop, better dust holding capacity and consistent performance during short timescales of increased humidity.

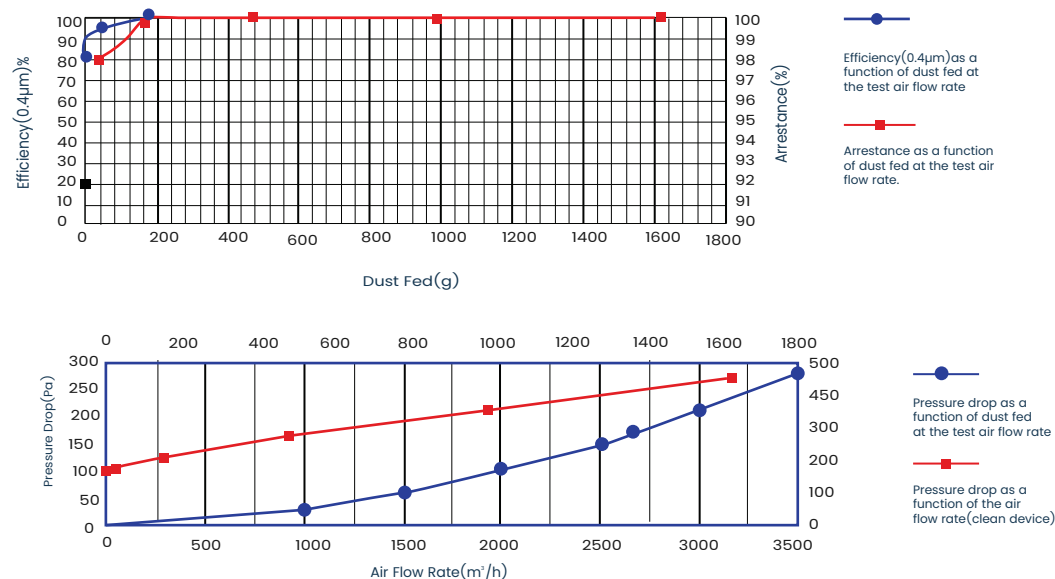
- » Available in 2 levels of efficiency – ePM10 65% and 75% (ISO16890), delivering high protection against coarse particles.
- » Optimized synthetic content and water repellency – offering improved resistance to humidity.
- » Excellent pulse jet durability – delivering longer time between service intervals



2- Nano

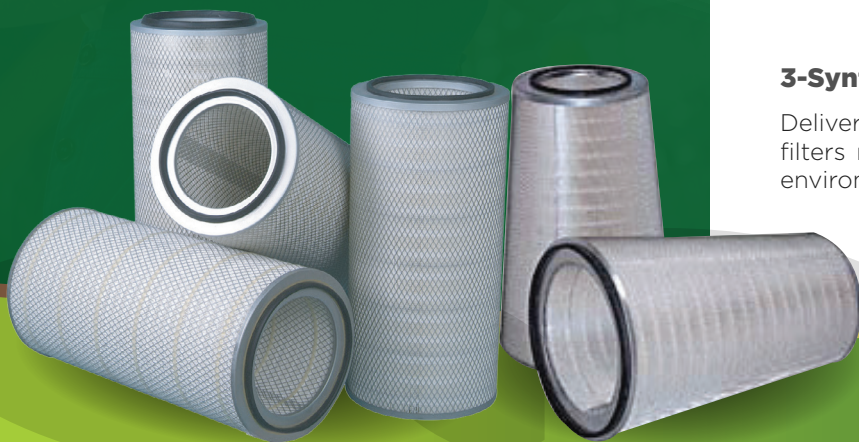
Offering is reaching F9 (EN779:2012) / ePM1 80% (ISO16890) at very low pressure drop. It delivers up to 4 times more particulate removal of submicron particles (PM1) than a more traditional M5 material without significant increase of pressure drop and delivers excellent protection of the gas turbine and long life time for both dry and wet environments.

- » Offers ePM1 80% (ISO16890) efficiency -delivering excellent protection of gas turbine against fine dust.
- » Delivers lowest level of pressure drop -minimizing energy consumption.
- » Optimal back-pulsing behavior - delivering longer time between service intervals.
- » Covers dry & wet environmental conditions.



3-Synthetic

Delivers extended filter lifetime in humid environmental conditions. Synthetic portfolio delivers enhanced air filters mechanical stability and mechanical filtration performances reliability, especially in challenging humid environmental conditions



CYLINDRICAL-CONICAL AIR FILTER **KOFCCYCO**

Two-Piece Construction

This filter consists of a stacked configuration with a cylindrical upper section and a conical lower section. Each part performs a specific filtration stage: the cylindrical top captures larger particles, while the tapered conical base traps finer contaminants.

Special Features



Space-saving design.



Improved airflow.



High dust holding capacity.



Optional inner safety filter, anti-static and water-repellent coatings.

FILTER TYPE	Two-piece stacked cylindrical-conical cartridge filter
CONFIGURATION	Cylindrical upper section (Ø324 mm) with conical lower section tapering from Ø324 mm at junction to approximately Ø445 mm at base
LENGTH	Typically, 1320mm combined length
SEAL	Integrated gasket between sections with end gasket on top section



FILTER TYPE	Stacked cylindrical cartridge filter
CONFIGURATION	Dual 324 mm OD cartridges stacked vertically (double-stack)
LENGTH	1320 mm (combined length of upper and lower elements)
INNER DIAMETER:	213mm
SEAL	Integrated gasket between cartridges, end gasket on top cartridge

DOUBLE CYLINDRICAL AIR FILTER **KOFCCYCY**

Two-Piece Construction

The filter consists of two vertically stacked cylindrical Air Filter Cartridge. Each element can be removed independently, enabling flexible maintenance and extended service life. The elements are sealed with a central gasket or locking mechanism inside a compatible housing to prevent air bypass.

Special Features



Easier handling and replacement



Extended filter life



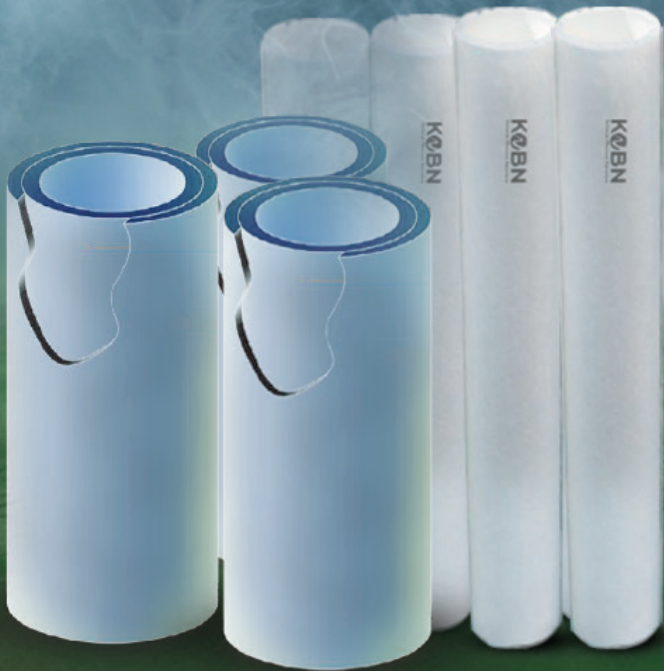
High dust holding capacity.



Optional inner safety filter, anti-static and water-repellent coatings.



COALESCING FILTER



COALESCING FILTER(KCF486(CF33986))

Our filter cartridges are designed for high-efficiency particulate removal, ensuring exceptional fluid cleanliness in critical applications such as engine and turbine lubrication, compressor lube systems, and seal oil systems. This helps minimize component wear and significantly extend equipment lifespan.

Why is an oil mist eliminator needed?

The exhaust gas must be "vented," and if it were just a simple tube open to the atmosphere there would be a steady stream of oil vapor coming from the open end of the tube. The oil mist eliminator will remove the oil from the drain and allow it to be returned to the oil tank.

Is the KCF 486 coalescing filter a standard size?

The KCF 486 coalescing filter dimensions are (51x64.8x476.25) mm and have an industry specified efficiency of 99.9% aerosol and 0.2µm oil particle removal.

The KCF 486 coalescing filter is designed using new manufacturing technologies to achieve improved performance

- » **Glass microfibers arranged in a random pattern through the complete depth of the filter cartridge.**
- » **High homogeneity of glass microfibers mixed with fluorocarbon resin.**
- » **Fine inner capture layer added.**
- » **High quality fluorocarbon resin used.**

And benefit from continuous technological advancements

- » **The residual amount of Oil particles is more than 28% Lower for 0,1 µm particle size, accordingly Less Oil Consumption.**
- » **With the same low pressure drop.**
- » **With slower clogging by solid particles due to better drainage.**
- » **With high strength and fiber shedding elimination.**

Datasheet

KCF 486 Coalescing Filters are engineered using a precise blend of borosilicate glass microfibers, bonded with a fluorocarbon resin (PVDF). This bonding process eliminates fiber shedding and enhances structural strength, allowing the filters to self-seal within the housing through axial compression.

The PVDF binder offers outstanding chemical resistance, making these filters suitable for handling corrosive gases and liquids, while maintaining exceptionally low levels of adsorption.

Featuring a dual-layer structure—with a fine inner capture layer and a coarse outer drainage layer (refer to the basic diagram on the next page)—and manufactured under stringent quality control standards, KCF 486 Coalescing Filters deliver superior filtration efficiency with minimal pressure drop. Additionally, these cartridges are capable of removing a significant portion of vapor-phase contaminants.



Fine inner capture layer

Coarse outer drainage layer

**COALESCING
Filter Element**



**GLASS
Microfibres**



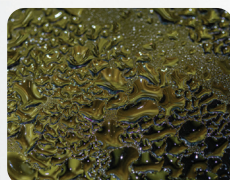
Datasheet

MATERIALS OF CONSTRUCTION	Borosilicate Glass Microfibers bonded with fluorocarbon resin (PVDF).
FILTRATION EFFICIENCY	More than 99,9% on aerosols composed of particles around 0,1 µm from oil tank vents of Turbines and Generators.
PRESSURE DROP/OIL MIST FLOW	From 1,5 to 12 kPa, depending of oil concentration and clogging. From 25 to 40 m3/h by cartridges.
TEMPERATURE RESISTANCE	-50°C to +150°C.
CHEMICAL AND MAXIMUM PRESSURE RESISTANCE	Water and all hydrocarbon and synthetic lubricants. (Consult us for specific gases and liquids)
MAX PRESSURE RESISTANCE:	8.0 bar.



To Avoid

OIL WASTE



NEGATIVE WASTE

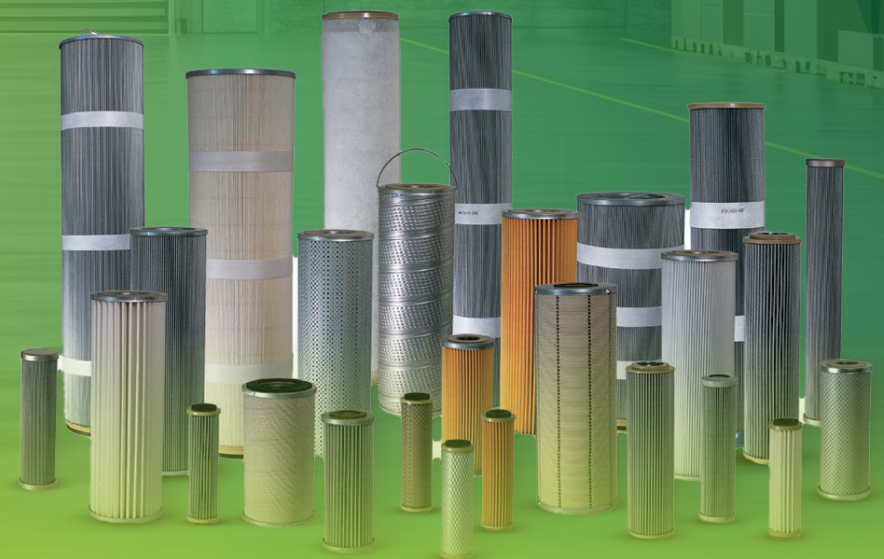


POLLUTION



REPLACEMENT FILTER & CARTRIDGE

Filter Cartridge Series



Introduction

KOBN high-performance hydraulic oil filter cartridges play a crucial role in maintaining equipment efficiency, reliability, and longevity. Engineered for superior filtration, they help machinery operate at optimal levels by reducing wear and preventing unplanned downtime. Crafted with precision and premium-grade materials, these cartridges effectively eliminate contaminants, safeguarding vital system components. Designed to meet the highest industry standards, our filters offer outstanding compatibility and dependable performance across a wide range of industrial and mobile applications.

Features

» Exceptional Filtration Efficiency:

Our filter cartridges are designed for high-efficiency particulate removal, ensuring exceptional fluid cleanliness in critical applications such as engine and turbine lubrication, compressor lube systems, and seal oil systems. This helps minimize component wear and significantly extend equipment lifespan.

» Customizable Options:

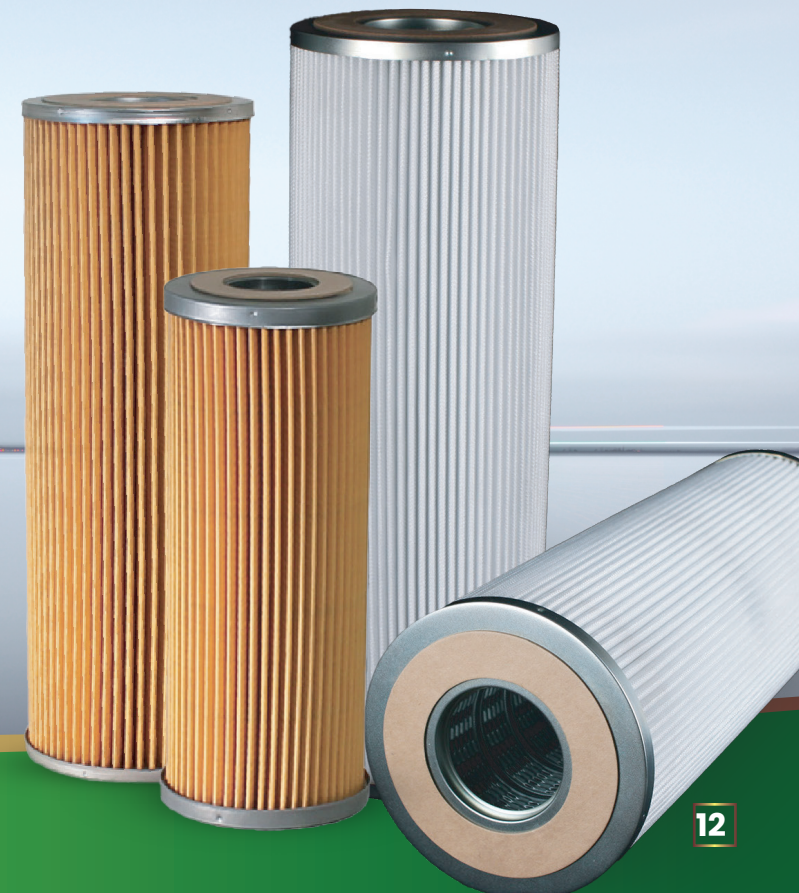
We offer a range of filter configurations and micron ratings to meet the specific requirements of various industrial applications, ensuring optimal filtration for each system.

» Thermal Stability and Durability:

Built to withstand dynamic temperature shift, our cartridges maintain their structural integrity in demanding environments.

» High Contaminant Retention:

Engineered with advanced filtration media, our cartridges provide excellent dirt-holding capacity, supporting extended service intervals while preserving the efficiency of cooling water and process water systems.



GLASS FIBER CELLULOSE KOGFCF



Introduction

KOBN filter cartridges are engineered for dependable performance and superior protection, featuring a three-layer filtration system that enhances application efficiency. These high-efficiency cartridges provide long-lasting contamination control, even in the most demanding environments.

Outer Cellulose Media Layer:

Delivers initial coarse filtration by capturing larger particles, effectively preparing the fluid for subsequent finer filtration stages.

Intermediate Glass-Media Layer:

Provides precise microfiltration to eliminate fine contaminants, ensuring superior fluid cleanliness and system efficiency.

Inner Cellulose-Media Layer:

Reinforces structural integrity and boosts the cartridge's durability, ensuring reliable and consistent performance over its entire service life.

Applications

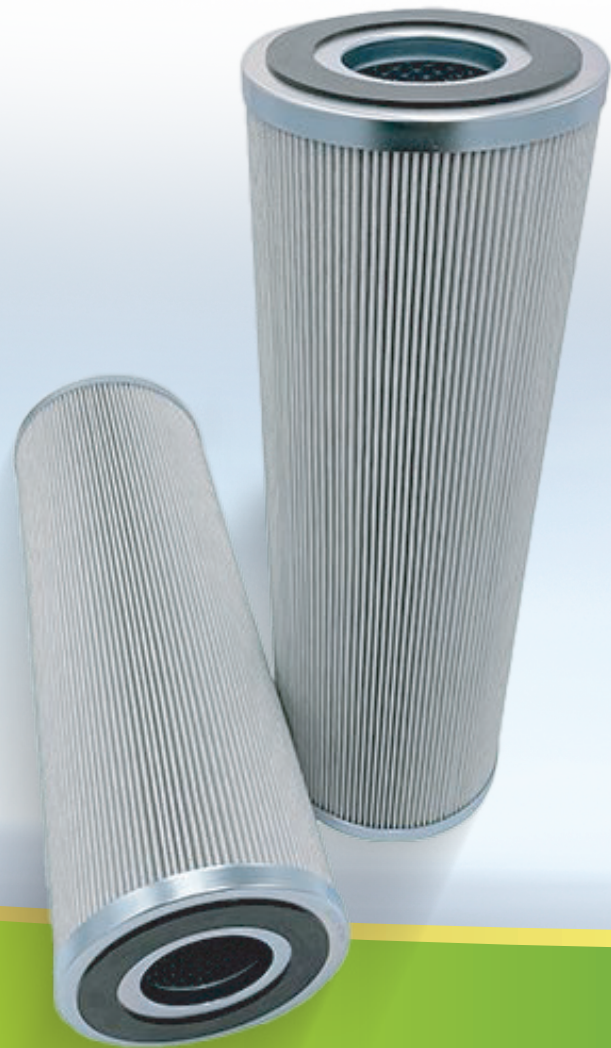
PRECISION HYDRAULIC SYSTEMS

GAS TURBINES

CENTRIFUGAL LUBRICATION SYSTEMS

REFRIGERATION AND COOLING & COOLING
COMPRESSORS

PLEATED CELLULOSE **KOPCMF**



Introduction

KOBN washable Stainless Steel Wire Mesh Filters are engineered for efficient impurity removal in oil systems, delivering reliable filtration to preserve fluid quality. Ideal for use as return filters, they effectively capture contaminants, enhancing the performance and dependability of hydraulic and lubrication systems.

Built with robust stainless-steel mesh, these filters offer exceptional durability and resistance to damage, making them ideal for continuous operation in harsh environments. Utilizing a vacuum-based mechanical principle, they efficiently draw in impurities while maintaining low flow resistance, ensuring reliable filtration performance and the added benefit of washability for extended service life.

Applications

HYDRAULIC SYSTEMS

TURBINES LUBE

LOW PRESSURE HYDRAULIC

DIESEL, GAS OR DUAL FUEL ENGINES

COMPRESSORS

PLEATED CELLULOSE

KOPCF

Introduction

Our pleated synthetic cartridge filters are designed for long-lasting durability and superior filtration performance. Built to endure continuous exposure to water without softening or degrading, they ensure consistent and dependable operation over time. At the heart of their performance is advanced synthetic media that offers high filtration efficiency with minimal pressure drop. This blend of rugged construction and cutting-edge media technology ensures optimal contaminant removal, safeguarding your systems and boosting overall operational efficiency.

Applications

HYDRAULIC SYSTEMS**TURBINES LUBE****LOW PRESSURE HYDRAULIC****DIESEL, GAS OR DUAL FUEL ENGINES****COMPRESSORS**

A worker in a white hard hat and safety vest is looking at a tablet in an industrial setting at night. The background shows a complex of pipes and structures illuminated by lights.

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