KAYDON FILTRATION
Filtration Group®

Lube & Hydraulic Oil Filtration

Effective filtration is critical for maintaining the reliability and longevity of industrial equipment. Contaminants in lube and hydraulic oil can lead to increased wear, reduced efficiency, and unexpected equipment failures. Protecting rotating components and hydraulic systems from these threats is essential for minimizing unscheduled maintenance and costly downtime.

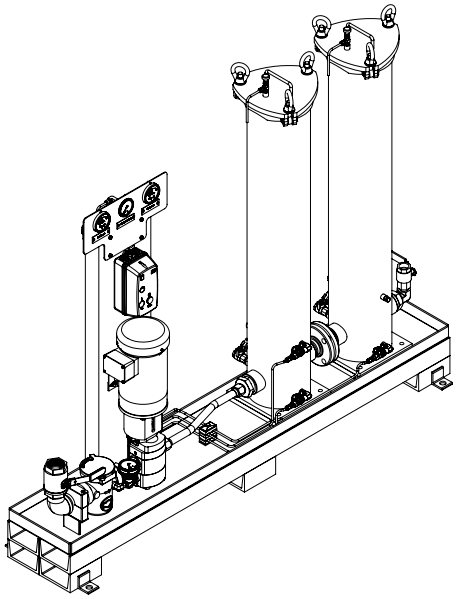
With decades of expertise, Kaydon Filtration is a trusted leader in designing advanced oil filtration solutions that safeguard critical assets.

Engineered for Demanding Industrial Environments

Our solutions deliver robust, high-efficiency particulate and water removal for lube and hydraulic oil applications. These systems protect critical components from harmful contamination, minimize equipment wear, and support reliable, long-term operation.

Separator Spares & Equipment LLC
Authorized Kaydon Filtration Distributor
(985) 346-0122 Office
www.separatorequipment.com
info@separatorequipment.com

KP SERIES
STATIONARY SYSTEMS



The KP Series sets the standard for industrial oil filtration, delivering continuous removal of harmful particulates and water to safeguard critical equipment and maximize uptime.

- **High-efficiency contaminant removal:** Efficiently eliminates particulates and water from lube and hydraulic oils, reducing the risk of equipment wear and unplanned maintenance
- **Continuous protection:** Designed for around-the-clock operation, supporting long-term reliability in demanding industrial environments
- **Versatile application:** Proven performance in steel and aluminum mills, paper mills, and other heavy industries where oil cleanliness is critical
- **Rapid oil conditioning:** Quickly restores oil quality during shutdowns, preparing systems for efficient and trouble-free startup
- **Customizable solutions:** Available with a range of options and configurations to meet specific operational requirements

The KP Series ensures your lubrication and hydraulic systems operate at peak performance-minimizing downtime, extending equipment life, and delivering confidence in every run.

Specifications	KP10-2-S-V636	KP30-001-V636
System Flow (max.)	10 GPM / 38 LPM	30 GPM / 114 LPM
Sizing	Up to 1,200 gallons / 4,500 liters	
System Pressure	100 psig / 7 bar	
Environmental Parameters	NEMA 4 Minimum Temperature: 32ºF (0ºC) Maximum Temperature: 104ºF (40ºC)	NEMA 4 / IP54 Minimum Temperature: 32ºF (0ºC) Maximum Temperature: 104ºF (40ºC)
Operating Voltage	460 VAC / 3PH / 60 Hz / 4 AMPS	380-415 VAC / 3 PH / 60 Hz / 5 AMPS
Materials of Construction	Metals: Aluminum, Carbon Steel, Stainless Steel Elastomers: Buna-N Paint: Epoxy	
Pressure Vesels	Carbon Steel with Ductile Iron Head/Base	
Inlet/Outlet Connections	Type: NPT Inlet: 2" (50.8 mm) Outlet: 1" (25.4 mm)	Type: NPT Inlet: 2" (50.8 mm) Outlet: 1.5" (38.1 mm)
Pump/Motor Assembly	Pump: positive displacement, 10 GPM @ 350 SSU @ 1750 RPM, 90 psig relief valve. Motor: 2HP / 2.7 KW	Pump: positive displacement, 30 GPM @ 350 SSU @ 1460 RPM, 90 psig relief valve. Motor: 3HP / 2.2 KW
Fluid Compatibility	Mineral base oil (maximum viscosity = ISO 68)	
Filter Stages	1st Stage: 30 mesh pump protection strainer 2nd Stage: particulate removal 3rd Stage: water removal or polishing	
Performance	Particulate: ISO Cleanliness Code 17/15/13[1]	
Controls	ON/OFF Motor Starter (NEMA 4)	
Weight (Dry)	700 pounds (318 kg) approx.	945 pounds (430 kg) approx.
Dimensions (LxWxH)	54 x 15 x 58 inches 1854 x 370 x 1470 mm	60 x 38 x 58 inches 1524 x 965 x 1470 mm

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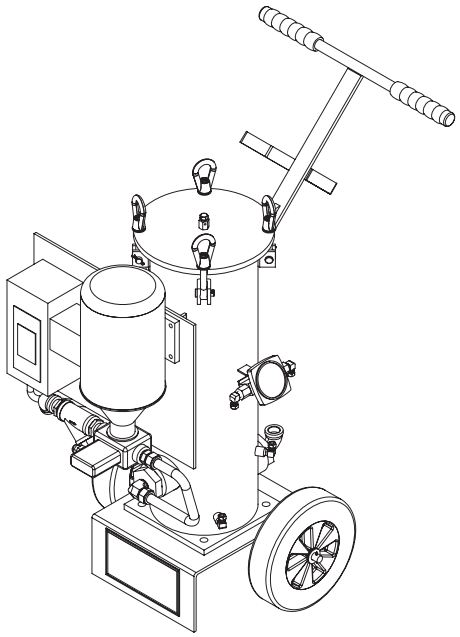
KP SERIES
PORTABLE SYSTEMS



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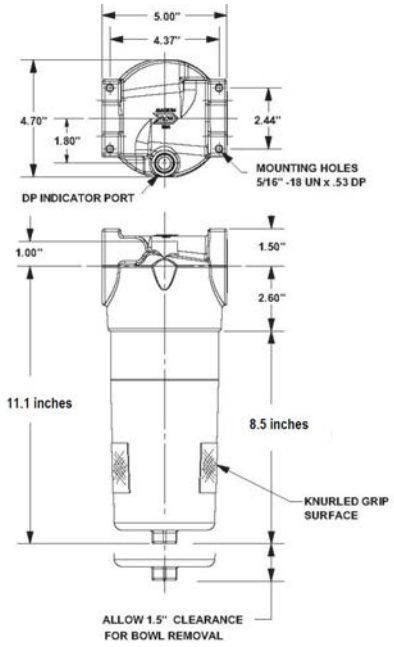
Specifications	KP-618-5	KP-636-5	KP-636-10
System Flow (max.)	5 gpm (19 lpm)	5 gpm (19 lpm)	10 gpm (38 lpm)
Sizing	For use with reservoirs up to 600 gallons (2,270 liters)		
System Pressure	100 psig / 7 bar		
Environmental Parameters	NEMA 4 (moisture proof and dust proof) Minimum Temperature: 32ºF (0ºC) Maximum Temperature: 104ºF (40ºC)		
Materials of Construction	Metals: Bronze, Carbon Steel, Stainless Steel Elastomers: Buna-N		
Inlet/Outlet Connections	Inlet: 1" (25.4 mm) NPT Outlet: 1" (25.4 mm) NPT		
Pump/Motor Assembly	Pump: positive displacement (sliding vane type) Motor: 1HP		
Operating Voltage	120 VAC / 1PH / 60 Hz		
Fluid Compatibility	Petroleum Based Fluids (maximum viscosity = ISO 320 at 100 ºF)		
Element Life Indicator	Type: Visual - Gauge | Measurement: Differential Pressure | Range: 0 - 40 psid		
Recommended Change-Out DP	25 psid / 1.7 bar		
Weight (Dry)	180 lbs (82 kg)	215 lbs (98 kg)	
Dimensions (LxWxH)	30 x 24 x 36 inches 760 x 610 x 915 mm	30 x 24 x 54 inches 760 x 610 x 1370 mm	

981 SERIES
IN-LINE FILTER HOUSINGS

- **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 mobile equipment, small hydraulic power units, and lube systems where larger assemblies aren't practical
- **Superior Protection:** Offers a more robust and durable alternative to spin-on filters, providing enhanced protection for critical components
- **Flexible Filtration:** Accommodates 4-inch filter elements with multiple micron ratings for tailored particulate removal

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.



Specifications		
Flows Up To	40 GPM / 152 lpm	
Inlet / Outlet Connections	1-½ inch NPTF	
Seal Material and Type	Fluoroelastomer Circumferential Bowl Seal	
Materials of Construction	Head:	Die Cast Aluminum
	Bowl:	Anodized Die Caste Aluminum
	By-Pass Valve:	Nylon
	Filtration Element:	Tin coated carbon steel end caps and center tube. Epoxy adhesives and inert micro-fiberglass filtration media
Fluid Compatibility	Petroleum Based Fluids (maximum viscosity = ISO 320)	
Max. Operation Pressure / Static Burst Pressure	1,200 psig (83 bar) / 3,000 psig (206 bar)	
Rated Fatigue Pressure	0—1000—0 psig for 1,000,000 cycles	
Application	Inline Oil Filtration or Return Line Oil Filtration (maximum viscosity = ISO 320)	
Recommended Change-Out Differential Pressure	25 psid (1.7 bar)	
Differential Pressure Indicator Type and Setting Type	Visual — mechanical "pop-up" type indicator with Fluoroelastomer seal. Setting = 44 psid	
By-Pass Valve Rating	50 psid (3.4 bar)	
Operating Temperature Range	-15°F — 250°F (-26°C—120°C)	
Replacement Filtration Elements	8 inch (204 mm) length elements	
Replacement Filtration Element Ratings	β_x= 200: 1, 3, 6, 12, or 25 µm / β_x(c) = 1000: 3, 5, 7, 12, 22 µm	
Assembly Weight	8.8 pounds (4 kg)	
SEAL KIT	Part Number 981-SEAKKIT (includes o-ring bowl seal)	

KAYDON FILTRATION
Filtration Group®

KAYMAX®
LUBE & HYDRAULIC OIL ELEMENTS

Kaydon Kaymax® elements are designed for critical lubricating oil applications where high-efficiency particulate removal and long service life are essential. Constructed with bonded fixed-pore micro-fiberglass media, these elements maintain pleat integrity under high viscosity and flow conditions—delivering consistent filtration performance that protects rotating equipment and extends oil life.

Materials of Construction:

- Inner/Outer Jacket – Spiral-welded Steel
- Gaskets – Buna-N
- Adhesive - Epoxy
- Media – Microglass

Part Number		KM6018-1	KM6036-3	KM6018-6	KM6018-12	KM6036-25
Element Type		Particulate				
Flow Direction		Outside to Inside				
Performance	Efficiency	β_x = 1000 @ 1µ	β_x = 1000 @ 3µ	β_x = 1000 @ 6µ	β_x = 1000 @ 12µ	β_x = 1000 @ 25µ
Fluid Compatibility		Mineral-Based Lubricating Oils				
Maximum Viscosity		ISO 68				
Compatible Vessels/Systems		KP-5 / KP-10 / KP-30				
Operating Temperature Range		32 - 200 ºF (0 - 93 ºC)				
Terminal Pressure drop		25 psid (1.7 bar)				
Nominal Dimensions		6 x 18 in (152 x 457 mm)				
Weight (approx.)		6 lbs (2.7 kg)				

KAYDRI®
WATER ABSORBING ELEMENTS

Kaydon Kaydri® elements are engineered for efficient water removal using quick-dry absorptive polymer technology. Ideal for systems where coalescers or vacuum dehydrators are impractical, these elements capture and retain water within the media to prevent recontamination. In addition to removing up to 1 gallon of water per element, Kaydri® filters also provide 5-micron particulate filtration for comprehensive oil cleanliness.

Materials of Construction:
- Metals: Electrogalvanized Tinplate
- Gaskets: Buna-N
- Adhesive: Epoxy
- Filter Media: Water Absorptive Polymer and Fiberglass

Part Number		KQD6018-5	KQD6036
Element Type		Absorbing	
Flow Direction		Outside to Inside	
Performance	Efficiency	β_x = 10 @ 5µ	
	Water removal	80% Single pass	
Fluid Compatibility		Mineral-Based Lubricating Oils	
Maximum Viscosity		ISO 68	
Compatible Vessels/ Systems		KP-5	KP-10 KP-30
Operating Temperature Range		32 - 250 °F (0 - 121 °C)	
Terminal Pressure drop		20 psid (1.7 bar)	
Nominal Dimensions		6 x 18 in (152 x 457 mm)	6 x 36 in (152 x 914 mm)
Weight (approx.)		6 lbs (2.7 kg)	12 lbs (5.4 kg)

KMP Series
HIGH-PRESSURE ELEMENTS

Kaydon KMP Series elements are designed to deliver high-efficiency particulate removal in compact systems operating under high pressure. Paired with Model 981 housings, these filters support pressures up to 1,200 psig—making them ideal for hydraulic circuits and high-demand lube oil loops.

Part Number		KMP9600AKF8V
Element Type		Particulate
Performance	Efficiency	β_x = 200 @ <4µ
Maximum Viscosity		ISO 320
Compatible Vessels/Systems		981 Series
Operating Temperature Range		-40 - 250 °F (-4 - 120 °C)
Max Operating Pressure		1200 psid (83 bar)
Nominal Dimensions		3 x 8 in (76 x 203 mm)

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SEPARATOR
SPARES & EQUIPMENT LLC
Authorized Kaydon Filtration Distributor

144 Intracoastal Dr.
Houma, LA 70363
Toll Free: (866) 218-0013
Phone: (985) 346-0122
Fax: (985) 346-0244
www.separatorequipment.com
info@separatorequipment.com

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