

# ELEMENTS

For more than 75 years, Kaydon Filtration has been an expert at providing state-of-the-art filtration technology for lube oil, hydraulic oil, diesel fuel, and other hydrocarbon fluids. The multi-layered design of our filter elements delivers exceptional particle retention and extended element life. Our filtration, coalescer, and water-absorbing elements are designed to help meet the expected fuel life while combining performance and cost effectiveness.

Take a look at Kaydon's elements to learn how they can work in your application:

- **TURBO-TOC<sup>®</sup>** turbine oil conditioning systems utilize a unique set of filter elements to treat particulate and water contamination.
- **KAYMAX<sup>®</sup>** filtration elements use an inert, fixed pore, impregnated fiber matrix media for maximum strength and increased dirt capacity.
- **KAYFLO<sup>™</sup>** (KF) filter elements are used for general purpose and Model KB filter elements are used for basic purpose industrial oil and fuel applications.
- **KAYDRI<sup>®</sup>** (KQD) water removal filter elements are designed to remove water, by using absorption, from lube oil, hydraulic oil, and diesel fuel.
- **PulseShield<sup>™</sup>** Hydraulic Fluid Filters provide increased dirt-holding capacity by as much as 30% in comparison to conventional filter elements.
- The Model KM 7500 filter elements are used for critical industrial oil and fuel applications.
- The Model CI coalescer elements are used with HF-FC series portable oil filtration carts for water separation and filtration of diesel fuels.
- Kaydon Fuel Filter Element Separators are designed and constructed with special hydrophobic materials to provide a barrier to water coalesced with Kaydon Filtration CI coalescer elements.



## TURBO-TOC® Series Elements



TURBO-TOC® turbine oil conditioning elements are used exclusively with TURBO-TOC Turbine Oil Conditioning systems. They are designed and constructed to produce exceptionally clean and dry turbine oil. Used with the TURBO-TOC system, the combination of Kaydon's filtration, coalescer, and separator elements provide unmatched particle removal and unsurpassed water removal.

The TURBO-TOC prefilter and postfilter elements' filtration media uses inert fibers that stay joined with special bonding agents that are not affected in lube oil. The fibers of both elements maintain a fixed pore structure throughout its filtration service life and are configured to create a high surface collection area. The TURBO-TOC coalescer element is designed and constructed with a high surface area, multi-layered fiberglass fibers for high-efficiency water removal. The combined separator and post-filtration element provides water separation properties and final particulate filtration.

### Applications

Turbine Oil

### Features

Inert inorganic bonded fixed-pore dual phase fibers

Micro-fiberglass medias with uniform pleating

Cost-effective solution for critical oil and fuel filtration applications

ISO 16889 Tested

### Benefits

TURBO-TOC element's provide exceptional particle removal with efficiencies that meet or surpass stated micron ratings

Higher dirt holding capacity and particle collection

The TURBO-TOC elements deliver high-filtration performance that positively impacts the element life, change-out frequencies, oil cleanliness levels, and equipment reliability

Proven performance using the ISO Multi-Pass test method for Evaluating Hydraulic and Lube Oil Filtration Elements



# TURBO-TOC® Series Elements

## Specifications and Details

Terminal Pressure	Part #	Type	psid	kg/cm <sup>2</sup>
	K1100	Filtration	25	1.7
	K2100	Coalescer	15	1.0
	K3100	Separator	15	1.0
	K4100*	Filtration	25	1.7
Collapse Rating	100 psid / 5.2 bar			
Materials of Construction	Metals: Inner and Outer Spiral Steel Jacket, Teflon coated stainless steel Elastomers: Buna-N Filter Media: Dual-Phase Micro and Macro Fiberglass Filter Media Epoxy: Adhesive			
Operating Temperature Range	32° F - 200° F / 0° C - 93° C			
Fluid Compatibility	Mineral Based Turbine Oils (ISO 32, 46, and 68)			
Weight (approximate)	Part #	Type	lbs.	kgs.
	K1100	Filtration	13	5.89
	K2100	Coalescer	9	4.08
	K3100	Separator	8	3.63
	K4100*	Filtration	13	5.89
Dimensions	Part #	Type	Inches D x L	mm D x L
	K1100	Filtration	6 x 36	152 x 914
	K2100	Coalescer	6 x 44	152 x 1,118
	K3100	Separator	6 x 28	152 x 711
	K4100*	Filtration	6 x 36	152 x 914

1. Life cycle costing is the true cost associated with the use of a filter element. It takes into account cleanliness of oil, filter life, change-out frequencies, and operator involvement. The cost of the filter element alone does not give a true evaluation of the overall cost.

2. Element tested per ISO 16889.

All design specifications are subject to change without notice.

\* Direct substitute for the K1100 filtration element. Pressure drop increases to 3 psid. Provides extra level of filtration with a micron rating of 4.2/1 and a Beta Ratio of 1000 (99.9%) / 200 (99.9%) efficiency.

