



# Turbo-TOC\* Upgrades

Hy-Pro Filter Element  
Upgrades for Kaydon  
Turbo-TOC\* Conditioning  
Skid Element Sets

Complete filter element sets including pre-filter, coalesce,  
separator and post-filter polishing elements.



\*Turbo-TOC is a registered trademark of Kaydon Corporation.



## Elements that go beyond industry standard.

DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature, and chemical resistance failures possible in filters with synthetic support mesh.

## Water Phase 1: Coalesce.

Stage 1 in removing the free and emulsified water is to coalesce the water into larger droplets until large enough to drop out of the oil. The Hy-Pro HPQK2G coalesce utilizes all synthetic media and non-woven materials providing great compatibility even over long term exposure to water.



## Water Phase 2: Separator + Final Polishing.

The HPQK3P-3M upgrade is a dual functioning element providing the final stage of water separation with a final pass of particulate removal. The TEFLON® coated screen works with the coalesce element to act as a water barrier while the water droplets grow before being collected. The final conditioning is Hy-Pro 3M media rated  $\beta_{4,cl} \geq 4000$ , it's a total solution.

# Element Interchange & Upgrade

Kaydon Model No.	Kaydon Part No.	Hy-Pro Direct Interchange	Description	Hy-Pro Upgrade	Description
K1000	A910201	HP102L36-6MB	Glass media pre-filter $\beta_{6_{[C]}} \geq 4000$	HP101L36-3MB	High capacity glass media pre-filter $\beta_{4_{[C]}} \geq 4000$
K1100 (replaced K1000)	A910201, A910266	HP101L36-6MB	High capacity glass media pre-filter $\beta_{6_{[C]}} \geq 4000$	HP101L36-3MB	High capacity glass media pre-filter $\beta_{4_{[C]}} \geq 4000$
K2000	A910202	HPQK2	Coalesce element cellulose media	HPQK2G	Coalesce element synthetic media
K2100 (replaced K2000)	A910202, A920267	HPQK2G	Coalesce element synthetic media	-	-
K3000	A910203, A910303	HPQK3	Separator element cellulose media	HPQK3P-3M	Separator layer + $\beta_{4_{[C]}} \geq 4000$ glass media polishing
K3100 (replaced K3000)	A910203, A910268	HPQK3P-3M	Separator layer + $\beta_{4_{[C]}} \geq 4000$ glass media polishing	-	-
K4000	A910204	HP102L36-3MB	High capacity glass media post-filter $\beta_{4_{[C]}} \geq 4000$	HP101L36-3MB	High capacity glass media post-filter $\beta_{4_{[C]}} \geq 4000$
K4100 (replaced K4000)	A910204, A910269	HP101L36-3MB	High capacity glass media post-filter $\beta_{4_{[C]}} \geq 4000$	HP101L36-1MB	High capacity glass media post-filter $\beta_{3_{[C]}} \geq 4000$

## Optimize Your Turbo-TOC\* performance with Hy-Pro Elements

Achieve lowest turbine lube oil reservoir ISO fluid cleanliness results and maximize element life by upgrading to Hy-Pro HP101L36-3MB series for pre-filter and HP101L36-1MB post-filter.

For optimum water removal efficiency and fluid compatibility use HPQK2G coalesce element and HPQK3P-3M separator/polisher elements (all synthetic media, non-cellulosic).

To reduce element change out costs on skids with pre-filter and post-filter housings install HP101L36-3MB in pre-filter with HPQK2G coalesce and HPQK3P-3M separator / polisher elements in the coalesce vessel (extends coalesce element life).

Upgrade to HPQK2G and HPQK3P-3M synthetic media elements and achieve > 95% single pass water removal efficiency.

## Tested to ISO Quality Standards

ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

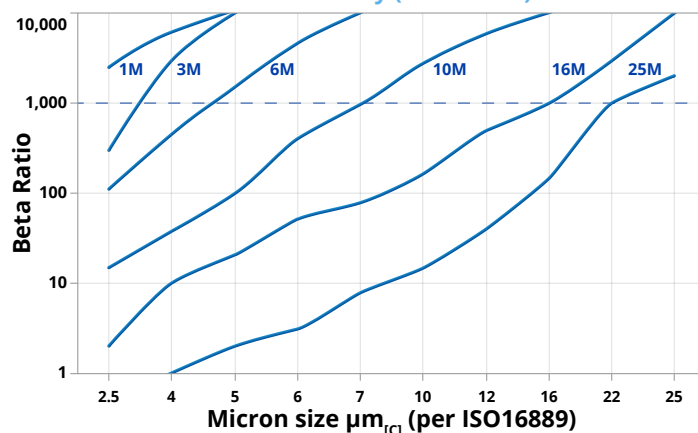
## Fluid Compatibility

Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF. Contact Hy-Pro for seal selection assistance.

## Media

G8 media pleat pack features our latest generation of graded density glass media that delivers required cleanliness while optimizing dirt capacity.

### Glass Media Filtration Efficiency (Beta Ratio) vs Micron Size



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