

KAYDON FILTRATION

KA-XP Series

OIL CONDITIONERS FOR ROTATING EQUIPMENT
IN REFINERIES & CHEMICAL PLANTS

Making the world safer, healthier and more productive®



APPLICATIONS: Hydrogen Compressors | Wet Gas Compressors | Power Recovery Train (Turbo-Expanders)
Industrial Steam Turbines | Any Turbine Driven Equipment



KAYDON FILTRATION
Filtration Group®

Oil Conditioners for Rotating Equipment in Refineries & Chemical Plants

Steam turbine mechanical failures, due to contaminated turbine lube oil, result in unavailability, partial forced outages, and expensive maintenance costs for rotating equipment. Clean turbine lube oil helps prevent forced outages, reduces maintenance costs, and keeps the turbine operational. The Kaydon Filtration Model KA-XP line of turbine oil conditioners are designed to purify the turbine oil to cleanliness levels of ISO 16/14/11 and reduce water to below 100 ppm.

As refinery and chemical plant reliability requirements increase, the need for turbine uptime becomes more important. Optimum usage of the rotating equipment is critical and because turbines are essential machines, failures become costly. The Kaydon Filtration KA-XP line of turbine oil conditioner systems will help keep the level of reliability and efficiency at its peak.



KA5-XP with Prefilter

Sizing Information

Reservoir Size	Model	Flow Rate
0-240 gallons (0-908 L)	KA1-XP	1 gpm (3.8 lpm)
241-600 gallons (909 - 2271 L)	KA5-XP	5 gpm (18.9 lpm)
601 - 1200 gallons (2272-4543 L)	KA10-XP	10 gpm (38 lpm)
1201-3600 gallons (4544-13627 L)	KA30-XP	30 gpm (114 lpm)
3600+ gallons (13627+ L)	KA135V-XP	35/70/100/135 gpm (132/265/379/511 lpm)



KA10-XP

KA5-XP / KA10-XP / KA30-XP Specifications

Criteria	KA5-XP	KA10-XP	KA30-XP
Flow rate	5 gpm (10 lpm)	10 gpm (38 lpm)	30 gpm (114 lpm)
Water removal	100 ppm* (Total Water)		
Dimensions	36" L x 30" W x 68" H (914 x 762 x 1727 mm)	36" L x 30" W x 68" H (914 x 762 x 1727 mm)	42" L x 50" W x 68" H (1067 x 1270 x 1727 mm)
Weight	900 lbs - dry (408 Kg)	900 lbs - dry (408 Kg)	1050 lbs - dry (477 Kg)
Inlet	1.5" (38 mm) 150# RF Flange	1.5" (38 mm) 150# RF Flange	2" (50.8 mm) 150# RF Flange
Outlet	1" (25.4 mm) 150# RF Flange	1" (25.4 mm) 150# RF Flange	1.5" (38.1 mm) 150# RF Flange
Electrical requirements	460 VAC/60 Hz/3 PH (575 VAC & 380 VAC available)	460 VAC/60 Hz/3 PH (575 VAC & 380 VAC available)	460 VAC/60 Hz/3 PH (575 VAC & 380 VAC available)
Particulate Removal	ISO 16/14/11 (elements tested per ISO 16889)		
Prefilter	Optional	Optional	Optional
Heater	Optional	Optional	Optional
Skid	Optional (must order with the prefilter and/or heater option)		
Controls	Control Panel (Motor On & Stop Control)		
Explosion Proof	Class 1, Division II, Group C & D		
Other	ASME Code vessel with Element Differential Pressure Gauge & Automatic Water Drain		



KA135V-XP

KA1-XP Specifications

Criteria	KA1-XP
Flow rate	1 gpm (3.8 lpm)
Dimensions	21" L x 19" W x 38" H (533 x 483 x 965 mm)
Weight	125 lbs - dry (57 Kg)
Inlet	1/2" (12.7 mm)
Outlet	1/2" (12.7 mm)
Electrical requirements	120 VAC/60 Hz/1 PH
Element requirements	K500, Combination Coalescer & Separator Elements
Strainer	Yes
Totalizing Water Meter	Yes
Indicators	Element Differential Pressure Gauge
Sump Heater	Optional
Controls	ON/OFF Switch
Explosion Proof	Class 1, Division II, Group C & D

KA135V-XP Specifications

Criteria	KA135V-XP
Flow rate (variable)	35 / 70 / 100 / 135 gpm (132 / 265 / 379 / 511 lpm)
Water removal	100 ppm* (Total Water)
Dimensions	91" L x 80" W x 84" H (2311 x 2032 x 3134 mm)
Weight	1975 lbs - dry (896 Kg)
Inlet	3" (76 mm) 150# RF Flange
Outlet	2" (51 mm) 150# RF Flange
Electrical requirements	460 VAC/60 Hz/3 PH (575 VAC & 380 VAC available)
Particulate Removal	ISO 16/14/11 (elements tested per ISO 16889)
Automatic Water Drain	Yes
Heater	44 kW (heats a 1200 gallon (4543 L) oil reservoir from 70°F to 140°F (21-60 °C) in 5 hours
Control Panel	Motor ON&Stop, Heater ON light, Flow Rate Selector, Low Flow Alarm
Explosion Proof	Class 1, Division II, Group C & D
Other	ASME Code vessels (prefilter & coalescer) with Differential Pressure Gauges

Warranty

Kaydon Filtration warrants the products manufactured by it to be free from defects in material and workmanship. This warranty terminates 18 months from date of invoice or 12 months from date of installation by the original purchaser, whichever comes first.

There is no other warranty, expressed or implied in fact or by law.

* Water removal is based upon an initial water concentration of 5,000 ppm. If water ingress is significantly higher, results may vary. Under normal operating conditions, the KA-XP will provide oil cleanliness to a water level below 100 ppm Total Water (total water is equal to the ppm of free, emulsified, and dissolved water).



KAYDON FILTRATION
Filtration Group®

Scan QR Code to find our locations



+ 1 800 241 2342

filtration@kaydonfiltration.com
www.kaydonfiltration.com