

## High-Efficiency Oil Conditioning for Reliable Turbine Performance

The TURBO-TOC™ KL Series is engineered for continuous, high-flow oil conditioning in large turbine lube oil reservoirs, supporting volumes up to 24,000 gallons. With multi-stage coalescing technology, particulate control, and water removal, KL systems are optimized for permanent installation in steam turbine-driven power facilities where uptime, oil cleanliness, and system reliability are critical.



### Specifications

Performance	ISO Cleanliness 15/13/11 Total water: <100 ppm
Fluid Compatibility	Mineral-based Turbine Oil
Maximum Viscosity	ISO 68
Design Pressure	150 psi / 10.3 Bar
Materials of Construction	Carbon Steel, Bronze, Stainless Steel, Buna-N
Coating	Exterior: C4 Classification Paint (ISO 12944)   Interior: Epoxy
Vessel Design	ASME Sec. VIII, Div. I
Voltage	460 VAC / 60 Hz / 3 PH
Controls	NEMA 4 Control Panel with PLC and Touch Screen Interface
Water Drain	Automatic
Water Level Detection	Visual Sight Glass

	KL10S2	KL30S2	KL60S2	KL100S2
Flow Rate	10 gpm (38 lpm)	10-30 gpm (30-113 lpm)	20-60 gpm (76-227 lpm)	20-100 gpm (76-378 lpm)
Reservoir Size	1801-2400 gallons (6801-9080 liters)	4801-7200 gallons (18201 - 27260 liters)	7201 - 14400 gallons (27261 - 54510 liters)	14401 - 24000 gallons (54511 - 90850 liters)
Approximate Dimensions (LxWxH)	48" x 46" x 82" (1219 x 1168 x 2083 mm)	55" x 54" x 94" (1397 x 1372 x 2388 mm)	69" x 65" x 92" (1753 x 1651 x 2337 mm)	91" x 88" x 102" (2311 x 2235 x 2591 mm)
Approximate Dry Weight	1700 lbs (771 kg)	2750 lbs (1247 kg)	4600 lbs (2087 kg)	5040 lbs (2286 kg)
Approximate Full Weight	2050 lbs (930 kg)	3500 lbs (1588 kg)	6000 lbs (2722 kg)	7016 lbs (3182 kg)
Inlet Connection	1 ½" (DN 40) RF Flange	2" (DN 50) RF Flange	2" (DN 50) RF Flange	3" (DN 80) RF Flange
Outlet Connection	1 ½" (DN 40) RF Flange	1 ½" (DN 40) RF Flange	1 ½" (DN 40) RF Flange	2" (DN 50) RF Flange
Pump Motor Rating	1.5 HP / 1.1 kW	5 HP / 3.7 kW	7.5 HP / 5.6 kW	15 HP / 11.2 kW
Oil Heater Rating	7.5 kW	22.5 kW	45 kW	75 kW

Elements		KL10S2	KL30S2	KL60S2	KL100S2
Prefilter	PN	K1100	K1100	K1100	K1100
	Qty	1	1	1	3
Coalescer	PN	K2100	K2100	K2100	K2100
	Qty	2	5	8	10
Separator	PN	K3100	K3100	K3100	K3100
	Qty	1	3	4	9

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