

## Introducing Kleentek: Electrostatic Oil Cleaner – eliminate varnishes, oil oxidation product and insoluble solid contaminant

Designed by Dr Akira Sasaki, a pioneer in employing the Electrostatic Principle to remove and eliminate varnishes, oil oxidation product and insoluble solid contaminant due to the prolonged use of hydraulic lubrication system.

Kleentek: Electrostatic Oil Cleaner employ electrostatic charged principle (electrophoresis & di-electrophoresis), a unique electrostatic cleaning method to remove all types and sizes of contaminants, providing an unrivalled levels of oil cleanliness and machine reliability.

Kleentek's technologies removes varnish deposits form and found onto the internal surface of the hydraulic internal surfaces. Without the continuous removal of varnish, oil oxidation and insoluble solid contaminant – it results in these systems gradually reduce precision tolerance and clearance, resulting in increased friction, machine wear and tear leading to machine operation.

- Reduce oil change by **80%**
- Reduce filter replacement costs by **80%**
- Reduce machinery failure cost by **56%**
- Reduce machine downtime cost by **80%**
- Reduce machine maintenance costs by **70%**



## Applications

Turbine Lubes  
Hydraulics Lubricant  
Compressors Oil  
Gear Oils  
Transformer Oil  
Heat Transfer Oil  
Paper Machine Oil

## Features

Portable  
Operates On-Line/Off-Line manner  
Low Running Costs  
Low Maintenance  
Cleans up to sub-micro level  
Remove Varnish

## Benefits

Improves Reliability  
Extend Oil Life  
Protects Oil Additives  
Reduce System Wear  
Improves Work Environment  
Reduces Waste



## How it Works

Inside each cleaning chamber contain a consumable cartridge collector. The contaminants are charged via an electrode, and the polar contaminants are attracted out of the oil using a positive (+) and negative (-) electrodes, which are held onto the collector.



EOC-R25TP



EOC-R50TP



EOC-R100TP

## Technical Specification

Unit	Standard**	Cleaning Capacity Guides (in litres) Hydraulic Oil, ISO VG				Pump flow  litre/m in	Physical Dimension (in mm)  Length X Width X Height	Weight  kg	Power Consumption  Watt	Cartridge Collector  Type	Pieces/ set
		32	46	68	100						
EOC-R3SP	CE, IS, JIS	800	560	380	210	1.2	311 x 361 x 531	20	200	CC-R3SP	1
EOC-R6SP	CE, IS, JIS	1,600	1,120	760	420	1.2	359 x 386 x 531	23	200	CC-R3SP	2
EOC-R10SP	CE, IS, JIS	5,000	3,400	2,200	1,200	2.2	675 x 350 x 915	70	270	CC-R10SP	1
EOC-R25TP	CE, IS, JIS	12,400	8,600	5,800	3,200	3.7	675 x 350 x 950	72	320	CC-R25SP	1
EOC-R50TP	CE, IS, JIS	24,000	16,600	11,200	6,000	9.0	710 x 530 x 1080	108	760	CC-R50SP	1
EOC-R100TP	CE, IS, JIS	48,000	33,200	22,400	12,000	12.0	1070 x 515 x 1080	161	1000	CC-R50SP	2

Standard units are suitable for Mineral Oils, PAO, Di- and Polyol Esters and Vegetable Oils (for Phosphate Esters and Polyglycols special units are available)

Standard units available in 240V and 110V, or 3 phase available upon request.

Max. temperature 60°C (special units available for 80°C)

Max. viscosity: 600cSt

Max. water content: 500ppm (=0.05%)

The above table shows the maximum oil cleaning capacity based a continuous application. The values are approximate and are valid for normal hydraulic and lube systems.

\* This type of unit is also available without a pump.

\*\* The ELC-units are manufactured in the following standard.

IS = International Standard; CE = CE-marked for EU countries;

EU = dedicated units (for European machine makers)

Important Notice: For systems with servo valves the above values should be reduced by 20%

For oil with detergents/dispersants of metal or amine type the above values should be reduced. Focus Machinery Pte Ltd, Singapore can advise accordingly.

The life span of the collector is normally at 2000 hours. When initially cleaning a relatively highly contaminated system, the life span of the collector can be significantly reduced.