Electrostatic Purifier



Comparison ELC 500 vs Solge SEC 100M

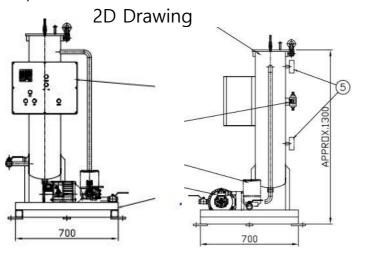
Model	Ferrocare ELC50C	Solge SEC 100M	
Electrostatic Filtering	Conventional Flat Type	Innovative Circular Type	
Maintenance	Very inconvenient / Electrode plates and	Very convenient / Only element replacement	
	all media shall be replaced respectively.	is required	
Filtration Area	Limited. / To increase filtration area, size of the	As a circular type, bigger filtration area	
	equipment should be bigger.	can be obtained by small sized equipment.	
Filtration Efficiency	Low filtration efficiency due to limited filtration	Circular type brings maximized filtration area	
	area.	and high filtration efficiency accordingly	
Installation	Difficulty to install at limited space	Compact size and no problem with installation	
Installation	Difficulty to install at limited space	Compact size and no problem with installation	

Part number and Specification

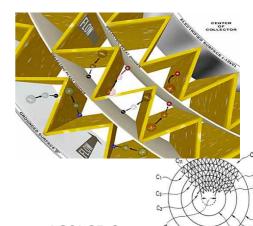
Series	Pump Flow	Housing	32cst	46cst	68cst	100cst
P/N: SEC-100M	10 Lpm	1 EA	14,400 liter	9,960 liter	7,200 liter	3,600 liter
P/N: SEC-200M	20 Lpm	2 EA	36,000 liter	31,200 liter	16,800 liter	9,200 liter
P/N: SEC-300M (Premium)	45 Lpm	2 EA	60,000 lpm	45,000 liter	31,000 liter	25,000 liter

Working process

Working: The SEC as fluid flows through the cleaning round cell, the particles and deposit On either the negative and positive electrode. It removes all sizes particles including varnish And deposits.



Element Component Diagram



SOLution by knowledGE / www.solge.com / SOLGE Co.

Electrostatic Purifier



Performance SEC 300M _ Case study

§ Test Oil : EHC Oil(46cSt) /200 Liter

Particle removal

- below ISO17/14/12

Acid removal

- EHC Oil : $2.0 \rightarrow \sim 0.08$

Water removal

EHC oil : 2,000ppm → ~80ppm



•MPC Level and Water Level















Jan. 13

Jan. 18

Jan. 30

Feb. 14

Mar. 20

Mar. 25

Apr. 16





The acid value, MPC value, and moisture value improved more than the new oil standard value within about two months after the SEC-300M was put into operation. However, as mentioned above, it seems that the EC filter removes the soluble contaminants and the solubility of the oil increases, so that the sludge and varnish adhered to the inside of the pipe and the inside of the pipe are increased. Since then, the continuous operation of SEC-300M has completely dropped the pollution level.