



GLOBAL FLUID POWER SYSTEMS

YOUR SOLUTIONS PARTNER

NANOCARE ELECTROSTATIC OIL CLEANER

"VARNISH REMOVER"

MODEL:100



Fine suspended particles contained in oil entering in the oil cleaner from oil inlet provided at the bottom, gets ionized & statically charged while passing through electrostatic field generated by applying High voltage (6kv/12kv) across +ve/-ve electrodes. According to the nature of the charge, such charged particles get attracted towards either of the electrodes.

When the oil is flowing from bottom to the top of the cleaning cell in a laminar manner, the charged particles get collected on the dielectric media i.e. either collector paper or Separator and get trapped into the dielectric media and are separated from oil. These contaminants thus get deposited on collector / Separator papers. Fine suspended particles contained in oil entering in the oil cleaner from oil inlet provided at the bottom, gets ionized & statically charged while passing through electrostatic field generated by applying High voltage (6kv/12kv) across +ve/-ve electrodes. According to the nature of the charge, such charged particles get attracted towards either of the electrodes.

When the oil is flowing from bottom to the top of the cleaning cell in a laminar manner, the charged particles get collected on the dielectric media i.e. either collector paper or Separator and get trapped into the dielectric media and are separated from oil. These contaminants thus get deposited on collector / Separator papers.

Prevention and removal of contamination and varnish
Removal of oxide insolubles and biological contamination
Removal of ferrous and non-ferrous contamination
Efficient and highly effective
water removal with coalescer option
Highest flow rate in the industry
Extends the life of antioxidant additives by removal of products of oxidation

Oil Circulating system

- a) Pump : Tushako make Trochoidal design Internal gear pump to handle Contaminated fluid.
- b) Pump flow range : 10 - 12 LPM
- c) Cleaning Capacity : Approx. 300 – 360 Liters / 24 Hrs

Power Supply system

15 V Three phase AC

High Voltage Transformer

- a) Number : One
- b) High Voltage Output Low Mode : 6 KV DC Positive (min.)
- c) High Voltage Output High Mode : 12 KV DC Positive (min.)
- d) Maximum Load Carrying Cap. : 20 mA
- e) High/Low Switchover : Automatic
- f) Continuous operation : Designed for continuous duty

Oil Parameters

- a. Viscosity less than 200 CST
- b. Max. Temp 60 deg C
- c. Moisture Less than 500ppm

Whether machine is portable

Yes On four castor wheels

Pre-installation requirement

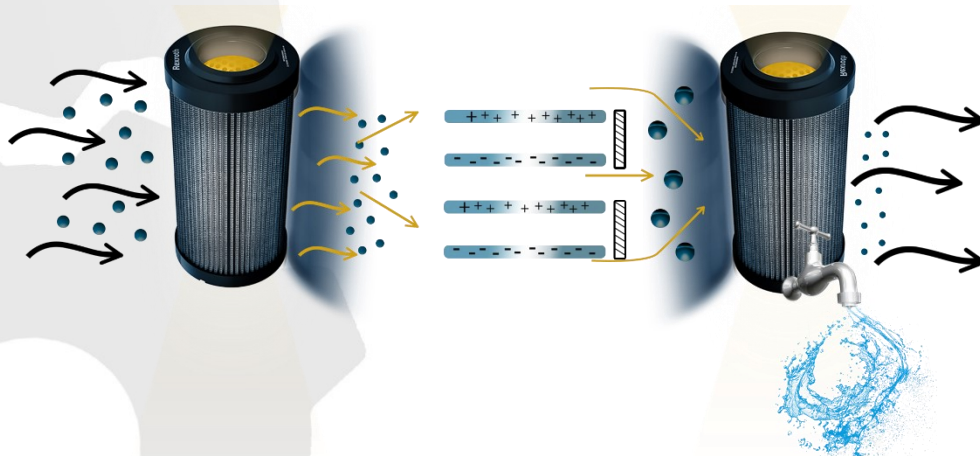
None except power supply

Particle size that can be removed

Upto 0.8 micron

Guarantee of machine

12 months from date of commissioning or 18 months from the date of supply whichever is earlier.



SPECIFICATION FOR NANOCARE ELECTROSTATIC OIL CLEANER

01. Model	: NEOC-100
02. Over all dimensions	: L – 740 x W – 640 x H – 940 mm (Tank capacity – 100 Liter)
03. Weight	: Approx. 130 Kg.
04. Construction	: Rugged Mounted on a trolley with Single phase/Three phase electric motor, panel Etc.
05. Oil Circulating system	
a) Pump	: Tushako make Trochoidal design Internal gear pump to handle Contaminated fluid.
b) Pump flow range	: 4 GPM
c) Cleaning Capacity	: Approx. 100 gallons / 24 Hrs.
06. Power Supply system	: 220V 3PH
07. High Voltage Transformer	
a) Number	: One
b) High Voltage Output Low Mode	: 6 KV DC Positive (min.)
c) High Voltage Output High Mode	: 12 KV DC Positive (min.)
d) Maximum Load Carrying Cap.	: 20 mA
e) High/Low Switchover	: Automatic
f) Continuous operation	: Designed for continuous duty
07. Control Panel	: Digital control panel with single switch Operation and indications of HV, mA, Faults etc. Or : Electronic microprocessor based control panel with single switch operation and indications of HV, mA, Faults, etc.

08. Oil Parameters : a. Viscosity less than 200 CST
b. Max. Temp 60 deg C
c. Moisture Less than 500ppm
09. Whether machine is portable : Yes - On four castor wheels
10. Pre-installation requirement : None except power supply
11. Particle size that can be removed : Up to 0.8 micron
12. Clogging or pressure drop : Nil
13. Supervision during operation : Nil
14. Guarantee of machine :12 months from date of commissioning or 18 months from the date of supply whichever is earlier.
15. Safety Devices
- a) Limit switch : N/C will not operate unless the cleaning cell lid is properly tightened.
- b) Float Switch : The 'HV' circuit will not operate unless the tank is full.
- c) Current Cutout :In case the excitation Current exceeds the designed value machine will trip
16. Inlet/Outlet Connections : Rigid PVC hoses of 5 meter length
17. Coalescing Filters : Moisture Removal
18. Motor :60 Hz @ 1800 rpm