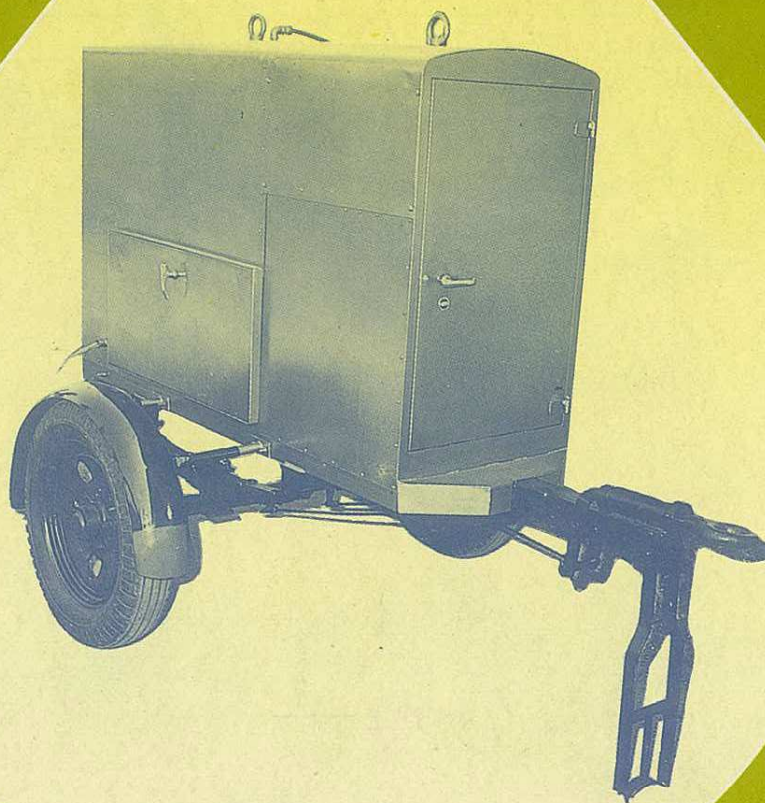


CLEAR FLOW FILTER MACHINE



CLEAR FLOW FILTER MACHINE

For Efficient insulating oil conditioning of Transformers, switch gears and drying out new transformers.

THE SECURITY OF COSTLY TRANSFORMERS OR OIL CIRCUIT BREAKERS DEPENDING AS IT DOES ON THE CONDITION OF THE OIL USED FOR INSULATING AS WELL AS COOLING PURPOSES.

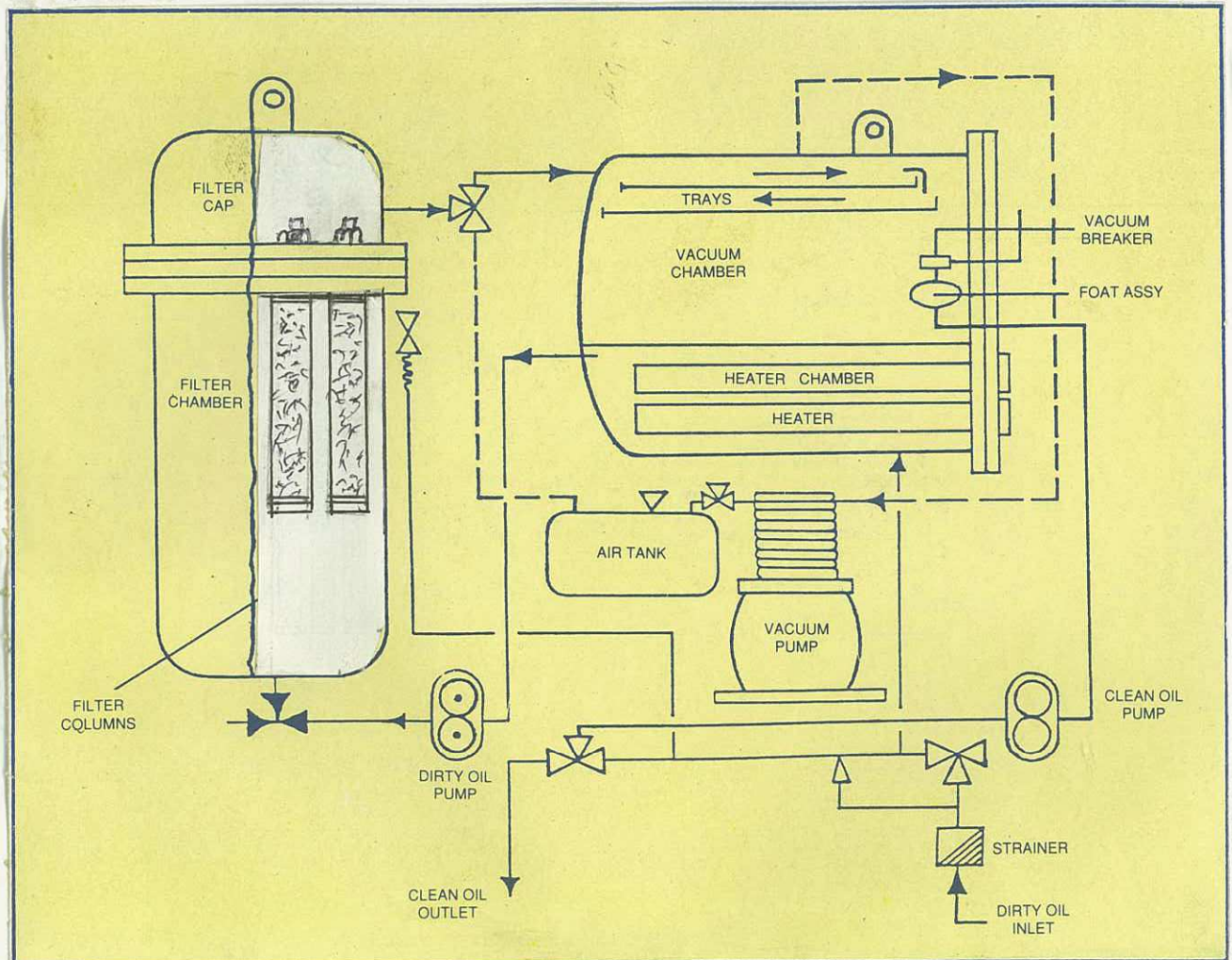
The impurities containing in transformer oil is not reduce the die electric strength but also it reduce the life of Transformers & Switchgears. That's why filter machine is very essential to purifies the oil & enhances its Die-electric Strength by removing harmful foreign materials, dissolved gases, moisture, dissolved water, drum scale, metal filling, dirt colloidal carbon, sludges and other impurities.

SALIENT FEATURES :-

- 1 Sturdy Construction.
- 2 Simple & Trouble free operation.
- 3 Working on CARTRIDGE FILTRATION principle.
- 4 Less attendance in continuous operation.
- 5 Lower power consumption.
- 6 Low maintenance cost.
- 7 Easy to operate.
- 8 Most efficient results.
- 9 Easy & simple operation for cleaning of CARTRIDGES by operating few cock handles.

GENERAL :-

'Clear Flow' make insulating oil machine Vac- Cartridge filtering units Designed, Developed & Manufactured for most highly efficient treatment of transformer oil under continuous process of heating, filtration under low vacuum. This gives Elimination of solid-impurities, Dehydration of dissolved water and De - Aeration of dissolved gases.



Cleaning of filter CARTRIDGES by compressed Air passing reversly Through cartridges Disloded impurities being drain out by draining filter chamber.

ELECTRIC SUPPLY :-

The plants are runs on three phase A.C., 50 Hz, 440/415 Volts Electric supply.

CAPACITY :-

The Machine available on C.I. Rollers type or trailer type mounted on Pnematic tyres, having a various capacity : 225, 600, 700, 1125, 2250, 4500 litre per hour.

WARRANTY :-

Our filter machines carrying a warranty for one year from the date of delivery/dispatch for manufacturing defect if any. (IN INDIA ONLY).

COMPONENTS :-

(A) Heating chamber. (B) Filter tank. (C) Filter Cap.
(D) Vaccum Chamber. (E) Air Tank. (F) Inlet oil pump,
(G) Outlet oil pump. (H) Vaccum pump cum compressor.
(I) Electric motor. (J) Chains & chain sprockets. (K) Vaccum, Compound & Pressure gauges. (L) Dial Thermometer.
(M) Tubular Heaters. (N) Thermostate. (O) Electric Control Pannel. (P) Control Valves. (Q) Inlet & Outlet hose pipes with end fittings.

• WORKING OPERATION •

HEATING :-

Dirt oil sucked through coarse Y type strainer in the heater Chamber. Number of heaters heat the oil to predetermined Temperature.

FILTERING :-

The heated oil sucked by dirty oil pump from heater chamber and delivered in to the bottom of filter tank. This tank contains number of spring loaded filter cartridge columns. The large surface area of cylindrcial cartridges creates microfine filtration. Only clean oil passes through M.S. holder pipes and goes to filter cap.hence this process is known as Cartridge filtration Principle due to vaccum the oil sucked through control valve into the vaccum chamber.

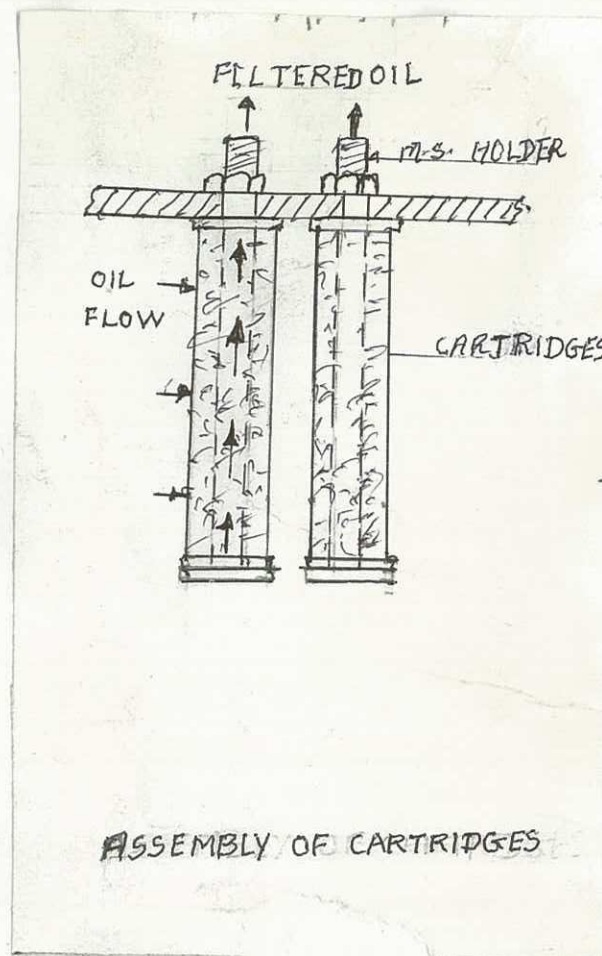
REMOVAL OF DISSOLVED GASES & WATER VAPOURS :-

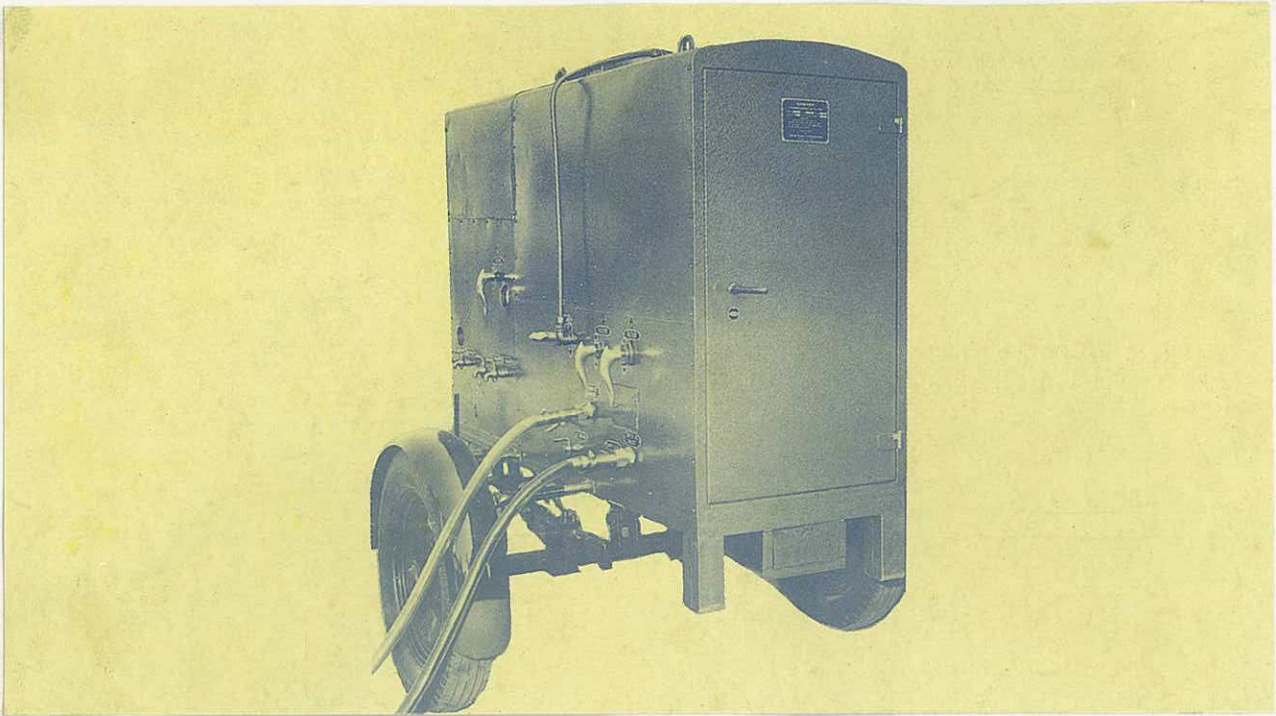
Oil enters into the chamber through spaying pipe & falls in shallow series of trays which facilitates rapid evaporation. The Vaccum creates in vaccum chamber by dry type vaccum cum compressor pump draws the water vapours, soluble gases, air from the top of the vaccum chamber & throw away in the atmosphere. A clean oil pump extracts the clean dry oil from the chamber & delivered through clean oil outlet. The float assembly with vaccum breaker unit provided to maintain the oil level as well as to break the vaccum in the vaccum chamber. To control oil level beyond a predetermined level. If level goes up beyond a certain point it may damage the dry vaccum pump. Hence break mechanism prevents & take care of vaccum pump.

CLEANING :-

A certain mass of oil filtration, solid impurities deposited on outer surface of cartridges. It can be cleaned of by reverse flow of compressed air. The vaccum pump works as a compressor which creates pressure in air receiver tank. The air pressure injected through M.S. cartridge holder assembly in reverse direction of oil flow. The accumulated solid is there by disloded from the surface area of the cartridges and discharged from filter tank through bottom valve.

WE ALSO UNDER TAKE REPAIRING & SERVICING OF ANY MAKE TRANSFORMER OIL FILETRS.





TECHNICAL DETAILS :-

	50	125	150	250	500	1000
	50 T	125 T	150 T	250 T	500 T	1000 T
CAPACITY IN LITER/ HOUR	225	600	700	1125	2250	4500
OIL IN SYSTEM APPROX IN LITRE	75	175	175	325	400	925
MOTOR H.P. IN KW.	0.56	0.75	0.75	1.12	1.5	4.48
HEATER CONSUMPTION IN KW.	7.5	15	16.8	30	50.4	84

OVER ALL DIMENSIONS :-

A.	C.I. ROLLERS TYPE						
	LENGTH	1600	1800	1800	1875	2100	
	WIDTH	750	850	850	1025	1200	
	HEIGHT	1400	1600	1750	2025	2175	

B.	TRAILOR TYPE						
	LENGTH	2600	2800	2800	3050	3250	4500
	WIDTH	1600	1600	1600	1700	1725	1750
	HEIGHT	1800	2000	2000	2175	2225	2500

The all above dimensions are in mm & approximately.

We have reserves the rights to alter all specifications, dimensions, design, etc., without notice for further development & modification.



Manufactures:

CLEAR FLOW CORPORATION

MANUFACTURES & REPAIRERS OF TRANSFORMER OIL FILTER MACHINE.
SERVICING OF HIGH VACCUM TRANSFORMER OIL FILTER PLANT.

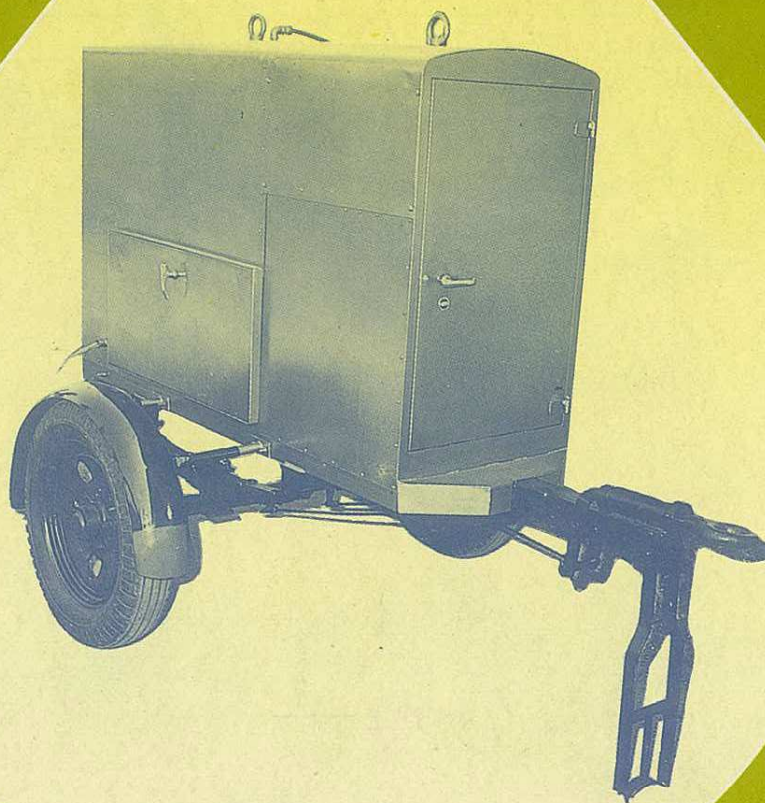
Regd. Office : 36/2 Arbudanagar Society,

Near Atma Jyoti Ashram,

P.O. SUBHANPURA, VADODARA : 390 023 (GUJARAT)

(M) 9426352027 (O) 0265 – 2390 902 E-mail : clearflow_16@yahoo.com

CLEAR FLOW FILTER MACHINE



CLEAR FLOW FILTER MACHINE

For Efficient insulating oil conditioning of Transformers, switch gears and drying out new transformers.

THE SECURITY OF COSTLY TRANSFORMERS OR OIL CIRCUIT BREAKERS DEPENDING AS IT DOES ON THE CONDITION OF THE OIL USED FOR INSULATING AS WELL AS COOLING PURPOSES.

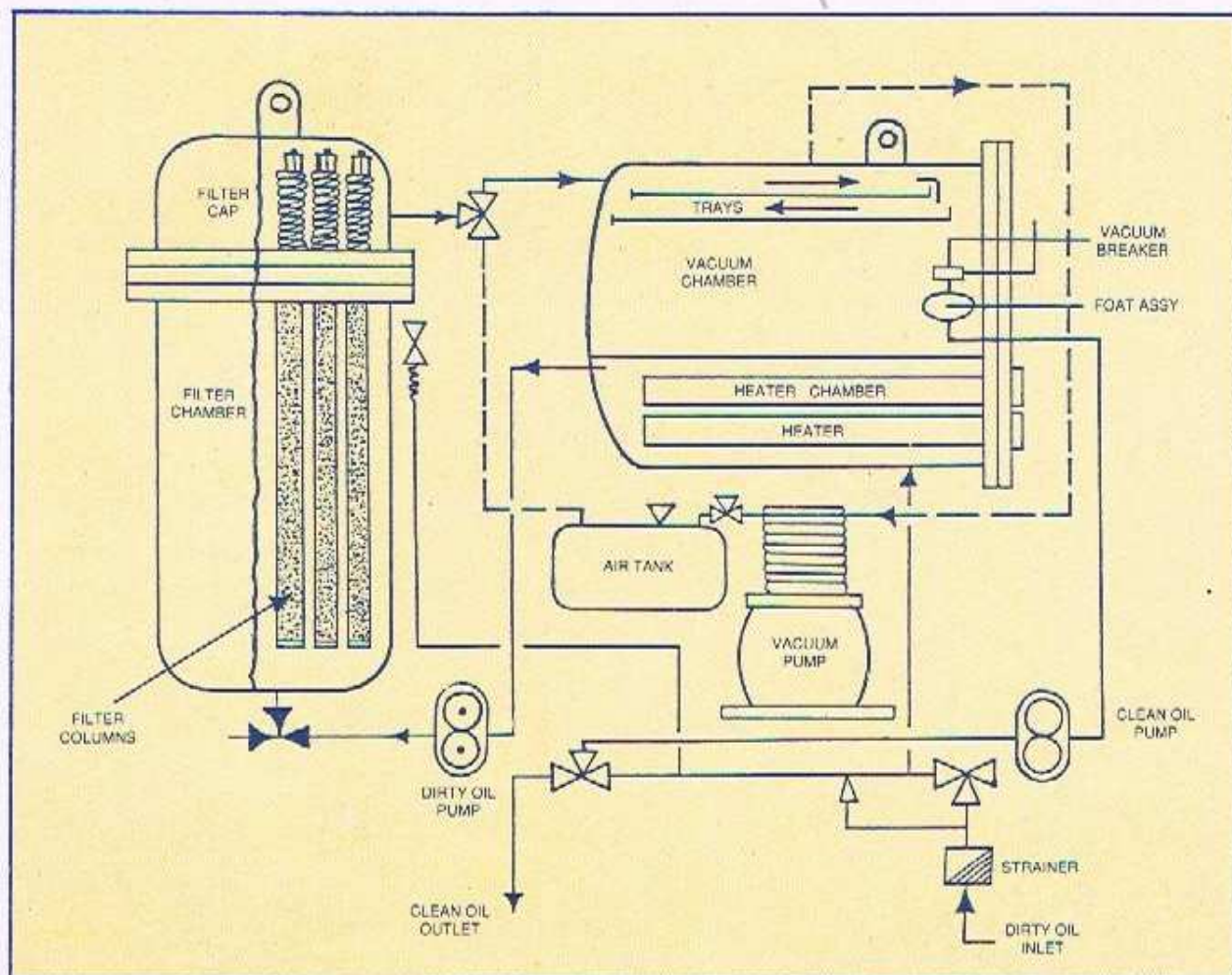
The impurities containing in transformer oil is not reduce the die electric strength but also it reduce the life of Transformers & switchgears. Thats why filter machine very essential to purifies the oil & enhances its Die-electric strength by removing harmful foreign materials, dissolved gases, moisture, dissolved water, drum Scale, metal filling, dirt colloidal carbon, sludges and other impurities.

SALIENT FEATURES :-

- 1 Study Construction.
- 2 Simple & Trouble free operation.
- 3 Working on EDGE FILTRATION principle.
- 4 Less attendance in continious operation.
- 5 Low power consumption.
- 6 Low maintenance cost.
- 7 Easy to operate.
- 8 Most efficient results
- 9 Easy & simple operation for cleaning of packs by operating few cock handles.

GENERAL :

Clear Flow' make insulating oil machine Vac-Edge filtering units Designed, Developed & Manufactured for most highly efficient treatment of transformer oil under continious process of heating, filtration under low vacuum. This gives Elimination of solid-impurities, Dehydradation of dissovved water and De-Aeration of dissolved gases.



Cleaning of filter packs by compressed Air passing reversly through packs. Dislodged impurities being drain out by draining filter chamber.

ELECTRIC SUPPLY :

The plants are run on three phase A.C., 50 Hz, 440/400 Volts supply.

CAPACITY :

The Machine available on C.I. Rollers type or trailer type on pneumatic tyres, having a various capacity : 225, 600, 700, 1100, 2250, 4500 litre per hour.

GAURANTEE :

Our filters carrying a guarantee for one year for manufacturing defects if any.

COMPONANTTS :

(A) Heating chamber (B) Filter Tank (C) Filter Cap. (D) Vacuum chamber. (E) Air receiver tank (F) Dirty oil pump. (G) Clean oil pump. (H) Vacuum pump cum compressor. (I) Electric motor. (J) Chain & chain sprockets. (K) Vacuum, compound & pressure gauges. (L) Thermometer. (M) Tubular heaters. (N) Thermostate. (O) Electrical control pannel. (P) Control valves. (Q) Inlet & Outlet hose pipes with end fittings.

• WORKING OPERATION :

HEATING :

Dirty oil sucked through coarse Y type strainer in the heater chamber. Number of heaters heat the oil to predetermined temperature.

FILTERING :

The heated oil sucked by dirty oil pump from heater chamber and delivered in to the bottom of filter tank. This tank contains number of spring loaded filter packs columns. The specially chemically treated, in large quantity of thin filter paper discs having a central hole are piled up to form hollow cylinder. The squire rod holding filter packs under spring all compression, so that only interstices of infinitesimal size remain between the discs. only oil passes through the layers & solid impurities retain on the outer edge of filter paper discs. Hence this process call as Edge filtration. The penetrated oil sucked through inner cylinrical in to the filter packs & than in to the filter Cap. Due to vacuum the oil sucked through control valve in to the vacuum chamber.

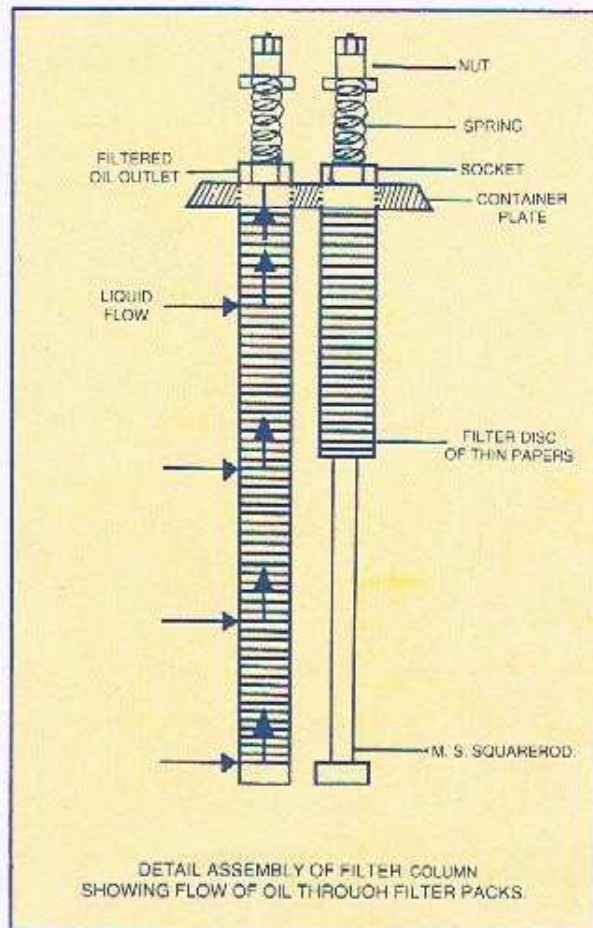
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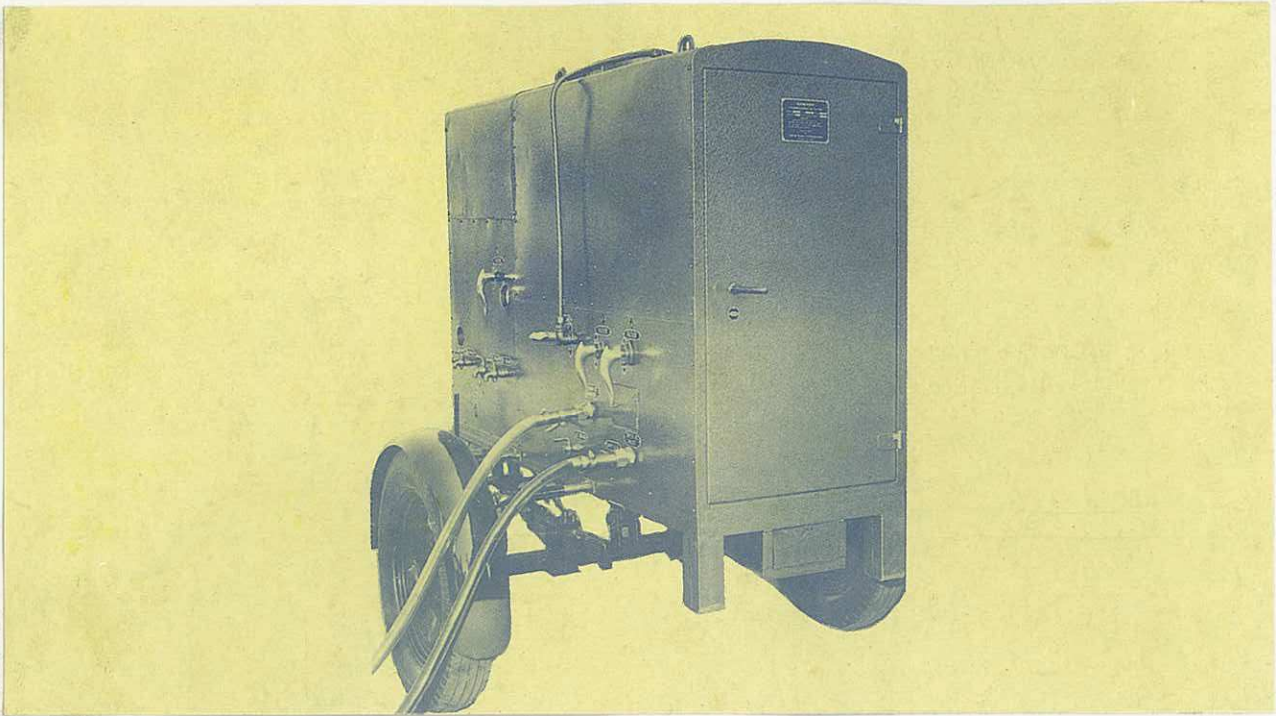
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CLEANING :

A certain mass of oil filtration, solid impurities deposited on edges of filter packs. It can be cleaned off by reverse flow of compressed air. The vacuum pump works as a compressor which creates pressure in air receiver tank. At certain pressure, air injected through filter rod. The accumulated solids is there by dislodged from the packs and discharged from the bottom of filter talk valve.

WE ALSO UNDER TAKE REPAIRING & SERVICING OF ANY MAKE TRANSFORMER OIL FILTERS.





TECHNICAL DETAILS :-

	50	125	150	250	500	1000
	50 T	125 T	150 T	250 T	500 T	1000 T
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