

Jransparent Jesting & Simplified Measurement

High Vacuum Double Stage Transformer Oil Filtration Machine











## **FEATURES**

- 1. Available in filter cartridge models.
- 2. Available in capacities Up-to 12000 LPH.
- 3. Mounting options like mobile (with Jeep Wheel), semi-mobile (with castorwheel) and skid.
- 4. Improves dielectric strength of the Transformer oil from 25KV to 70 KV& above In 3 to 4 Passes.
- 5. Major pipe connections are made of wire braided hoses.
- 6. Ball valves with SS balls and Teflon seating.
- 7. Rugged construction, resulting in long years of service,
- 8. Centralized control panel (Fuse less panel using MCCBs, MCBs),
- 9. Imported filter cartridges,
- 10. Powder coated outer panels and internal parts spray painted with PUPaint.
- 11. Temperature gauge, vacuum gauge, compound gauge, Safety relief valves.

<b>TECHN</b>	ΝΛΤΛ	CHEET
	DAIA	JILLI

Parameters	Unit	TOFMD 1200	TOFMD 1800	TOFMD 2400	TOFMD 3000	TOFMD 4500	TOFMD 5000	TOFMD 6000	TOFMD 12000
Flow Rate	L/H	1200	1800	2400	3000	4500	5000	6000	12000
Inlet Pump	L/M	20	30	40	50	80	80	100	200
Outlet Pump	L/M	20	30	40	50	80	80	100	200
Heating Power	KW	12	30	48	72	96	108	120	144
Vacuum Pump 1 <sup>st</sup> Stage	L/M	300	400	600	600	800	1000	1200	2000
Booster Pump 2 <sup>nd</sup> Stage	m <sup>3</sup> /Hr	-	-	100	200	250	300	400	600
Inlet/Outlet	mm	Ф19	Φ19	Ф25	φ25	Ф38	Φ50	Φ50	Ф62
Magnetic Strainer	Micron	50	50	50	50	50	50	50	50
Secondary	Micron	3 No.10µ	3 No.10µ	4 No.10µ	4 No.10µ	6 No.10µ	7 No.10µ	8 No.10µ	10 No.10µ
Filter		3 No. 1µ	3 No. 1µ	4 No. 1µ	4 No. 1µ	6 No. 1µ	7 No. 1µ	8 No. 1µ	10 No. 1µ
Back Filter		-	-	1 No.					
Operation Temperature	°C		40 ~ 70 (65°C is best)						
Power Supply			390-450 VAC, 3 Phase, 50 Hz						
Ambient Temperature		-25 ~ 55°C							
Weight	Kg	500	700	900	1000	1200	1300	1400	2000
Inlet/Outlet	Mtr	10 Mtr	10 Mtr	10 Mtr	10 Mtr	10 Mtr	10 Mtr	10 Mtr	10 Mtr
Hose Pipe		Each	Each	Each	Each	Each	Each	Each	Each

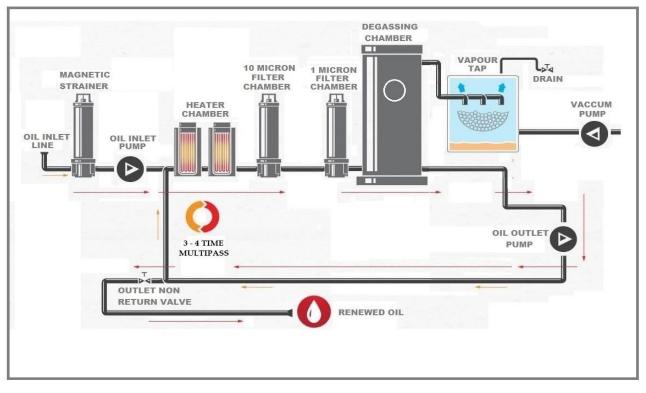


## **Oil Data Before and After Treatment :**

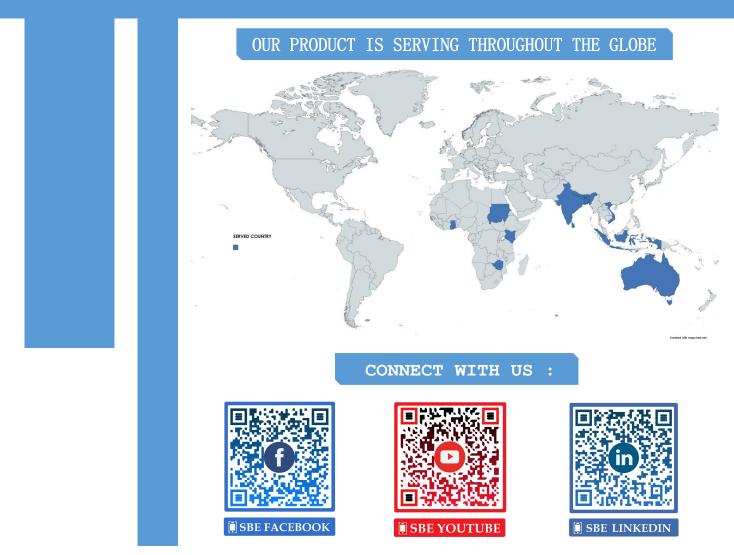
Parameter	Used Oil	After Treatment	
Moisture (Water Content)	≥120 ppm	≤ 5 PPM	
Gas Content	10%	≤0.1% (Vol)	
Particle size (Filtration Level)	50-100 ppm	≤ 1 micron	
Breakdown Voltage (Dielectric)	25 kV	≥70 KV	

## Working Principle :

When this machine start working and vacuum degree is upto the set value, the used oil will be sucked into the primary filter & secondary filter under the pressure difference, the primary filter & secondary filter will remove the big size impurities/ particles, then the oil which just contains the tiny particles is heated by the heaters. Then the heated oil enter into the vacuum separator, through the function of vacuum pressure and degassing system, the moisture content in the oil, which is vapoured & separated from the oil quickly, is either discharged under the process of the vacuum system or refrigerated to liquid water into water receiver, meanwhile degasification work is completed. The last procedure is that the fine filter removes the tiny impurities completely. Finally, clean oil goes out through the oil outlet.



\*All Pictures are for reference only.





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