



# FILTERVAC INTERNATIONAL INC.

## ECOIL MOBILE TRANSFORMER OIL REGENERATION SYSTEMS - MODEL RS-M



Semi-Trailer Van (Option T)



40 ft Container Installation (Option 40)



Before  
Treatment



After  
Treatment

The Ecoil Mobile Transformer Oil Regeneration System (Model RS-M) has been specifically designed for on-site use to regenerate insulating mineral oil in energized or de-energized transformers, as well as on a tank to tank basis. The Ecoil System uses a special blend of Fuller's Earth Clay that is permanently installed in a set of columns and the oil is directed through the columns by forced percolation. With the use of these packed Fuller's Earth Columns, the Ecoil System is able to effectively remove contaminants such as acids and sludge from the oil as well as rectifying the colour and restoring oxidation stability of the oil. In addition to the Regenerating capabilities, the Ecoil System incorporates a heater, degasifier and a set of particulate removing filters resulting in the complete degasification, dehydration and filtration of the oil. Optional heavy-duty heater is provided for desludging of transformer. The Ecoil System is able to consistently regenerate the used and deteriorated transformer oil to a specification that surpasses all ASTM and IEEE specifications/standards.



**One of the many unique features of the Ecoil System is its ability to reactivate the same clay up to 300 times before the clay is exhausted and disposed of as non-hazardous substance.** During the circulation of a nominal quantity of deteriorated oil, the clay beds become progressively saturated and their efficiency drops off to the point that justifies the reactivation of the clay. With the simple push of a button, the reactivation of the clay is carried out within the clay columns. The reactivation process is fully automated and enables the system to process oil again and again using the same clay. Since the clay can be re-used, Filtervac is able to offer a high grade of Fuller's Earth Clay that allows for the oil to be regenerated to a specification that cannot be consistently matched by any Conventional Fuller's Earth System. In addition it has been recognized that after the initial reactivation of the clay, the clay's adsorptive capacity is enhanced and provides better results than virgin Fuller's Earth. In essence, the Ecoil System avoids all complications, costs and performance issues associated with typical oil processing units.



In order to ensure a high degree of control and reliability, the Ecoil System is controlled by a programmable logic controller and monitored/interfaced by a computerized supervisory system, which monitors and records all vital operating parameters. All of the Ecoil Mobile Systems come equipped with an operator's control room that houses the computer supervisory system. The Ecoil System is housed in either a Semi-Trailer Van (Option T - Varied Length available) or in a 20 or 40ft sea freight container (Option 20 or 40). In addition Filtervac provides an optional full line of Oil Testing Equipment to provide the operator with an on-board oil testing facility.



**FILTER VAC** INTERNATIONAL INC.

**ECOIL TRAILER INSTALLATIONS (Option T)**



**Filtervac believes that a top quality system deserves a top quality trailer. That is why Ecoil's Mobile Installations are enclosed in high quality North American built Trailers that are known throughout the world for its smooth ride and durability. Standard Trailers come in F.R.B. Construction and come complete with:**

- **Air ride suspension and air brakes**
- **Barn Doors(on Back) and two(2) Side Doors**
- **Removable and Storable Aluminum(Light Weight) Stairs.**
- **Partitioned and Furnished Control Room**

**Standard Trailers are 40ft in length but can be shortened or lengthened depending on customer's preference and the system capacity chosen.**