



FILTERVAC INTERNATIONAL INC.

ECOIL STATIONARY TRANSFORMER OIL REGENERATION SYSTEMS - MODEL SRS



Aluminum Enclosure (Option AE)



20 ft Container Installation (Option 20)



40 ft Container Installation (Option 40)



Before Treatment



After Treatment

The Ecoil Stationary Transformer Oil Regeneration System (Model SRS) has been specifically designed to regenerate insulating mineral oil 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, a set of particulate removing filters and optional degasifier (Option P) resulting in the ability to completely degasify, dehydrate and filter the oil. 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 needing to be replaced and disposed of as non-hazardous substance. During the normal course of operation, after having circulated a nominal quantity of oil, the clay beds are usually quite saturated and their efficiency drops of 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.

Standard Stationary Systems (Model SRS) are designed for use in an interior/enclosed location such as a transformer shop or warehouse. For systems that are required to be installed in an outdoor installation, Filtervac provides several weatherproofing options:

- **Installation of the SRS System in a 20 or 40ft Sea Freight Container (Noted as Option 20 or 40):** The Sea Freight Containers are customized to house the Ecoil System and include such features as two (2) side doors, partitioned and furnished control room, windows, vents and optional cold/hot weatherproofing.
- **Installation in Aluminum Enclosure (Noted as Option AE):** The Ecoil System is enclosed by aluminum paneling and provides for a very compact and light weight installation.



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ECOIL Model SRS – Weatherproofed Stationary Installation

Standard Stationary Systems(Model SRS) are designed for in interior/enclosed locations such as a transformer shop or warehouse since no weatherproofing or enclosure is provided.

Filtervac offers several weatherproofing options which allow for use of SRS Systems in various exterior climates.



Such options include installations of SRS System in a 20 or 40ft Sea Freight Container(Noted as Option 20 or 40). These Sea Freight Containers are customized to house the SRS System and include such features as two(2) side doors, partitioned/furnished control room, windows and vents.



Filtervac also provides it's customers with an option (Noted as Option AE) to enclose the SRS System with Aluminum Paneling. This option provides for a weatherproofed installation as well as providing for a very compact and light weight system.