

**OIL REGENERATION PLANT
With NEW Reactivation Method**

KLVC / KREG



**The Ultimate Technology
From**



KATO ELECTRIC MFG. CO., LTD.

KATO's REGENERATION PLANT

Dehydration + Reclamation in one plant

Regenerate Used Oils

WITHOUT DOWN-TIME AND WASTE OF OILS.

Two groups of Column work in parallel and/or series for Regeneration and Reactivation. Compared with other brand, drainage of oil for Reactivation is not required. Thus, there is **No Down-Time** for precious time in completing regeneration job at site. There will be **No Waste Of Regenerated Oils.**

Reactivate WITHOUT BURNING OILS AND BAD SMELL

In a classical way of Reactivation, it is essentially needed to stop Regeneration Section to drain out from Columns to heat spent Clay up by means of enormous Heat around 600-700°C for minimum 5-8hours or more. With our exclusive method of Reactivation, there is no need of Burning Oils as well as No Bad Smell due to no Burning oils. There is also no need of additional and expensive Diesel Engine Generator just only for such Burning out purpose since our method do not require such heat for Reactivation..

Radial Flow WITHOUT BYPASSING WITHIN CLAY

As nature of Activated Clay/Alumina as granular form (which is much bigger size than Fuller's Earth), It tends to create Bypassing Route (one single way) in Columns. We provide Radial Oil Flow in Column to avoid such Bypassing Route. To secure uniform flow to all Clay in Column means to ensure effective adsorption of each Clay equally which make the absorbing capacity 100% workable and ensure equal contact area for the best performance life. Without such radial flow principle, even after Reactivation, flow rate may be dropped significantly due to this bypassing route creation in Columns which is unavoidable without this Radial Flow concept.

Non-Hazard Disposal FOR ENVIRONMENTAL ISSUE

At the end of long Clay life, with final Reactivation, spent Clay shall be disposed safely with no environmental issue.

On-Load Operation WITHOUT STOPPING TRANSFORMER

As OPTION, this Plant can reclaim oils in Transformer without stopping in the field which will give a great benefit for economical result in every way.

PLC Controlled Program WITHOUT SKILL OF OPERATION

As OPTION, we will provide PLC Control Program for ease of operation and continuous recording of work in the field.

In-Line Monitoring FOR QUALITY MONITORING

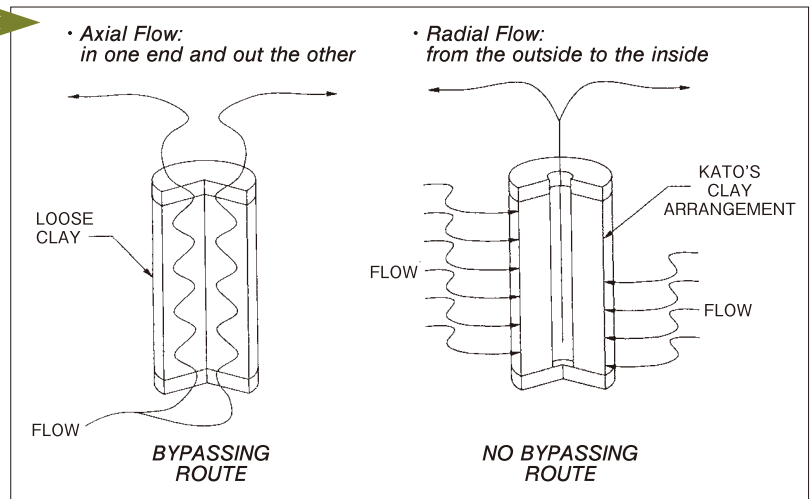
As OPTION, we will provide the modern and reliable instruments duly furnished and installed in the Plant for continuous monitoring of quality of treated oils.

Experience the art of KATO Modern Technology



*Performance	Unprocessed	Regenerated
Moisture ppm	< 50-200	<10-5
Gas vol. %	< 6-10	< 0.5-0,25
DBV 2.5mmG		> 70-80
Acid mgKOH/g	0.25-0.15	<0.1-0.03
Tan Delta PU	1.0	<0.015
Color	Brown Cloudy	Yellow Clear

* Radial flow into each Clay Column without reducing flow rate/bypassing route after REACTIVATION. We design full surface Absorption Clay performance.



* Air conditioned operator's room for the comfortable job atmosphere in the field.

Specifications **This shall be modified at request and/or modified without notice.**

Model No.	Flow Rate KL/hour	Clay/Column kg/number	Approx. Dimensions			Weight kg
			L	W	H cm	
KLVC/KREG-3	5 - 6	375/4	650	240	250	9,000
KLVC/KREG-2	3 - 4	250/2	500	240	250	7,000
KLVC/KREG-1	1 - 2	50/2	400	240	250	4,500

Complete with standard accessories/tools/spare parts for first maintenance.

OPTION, an exclusive and advanced offer from KATO

PPM Direct Reading Meter



Particle Counter Razor Reading



PLC Full Automatic Operation Programmed

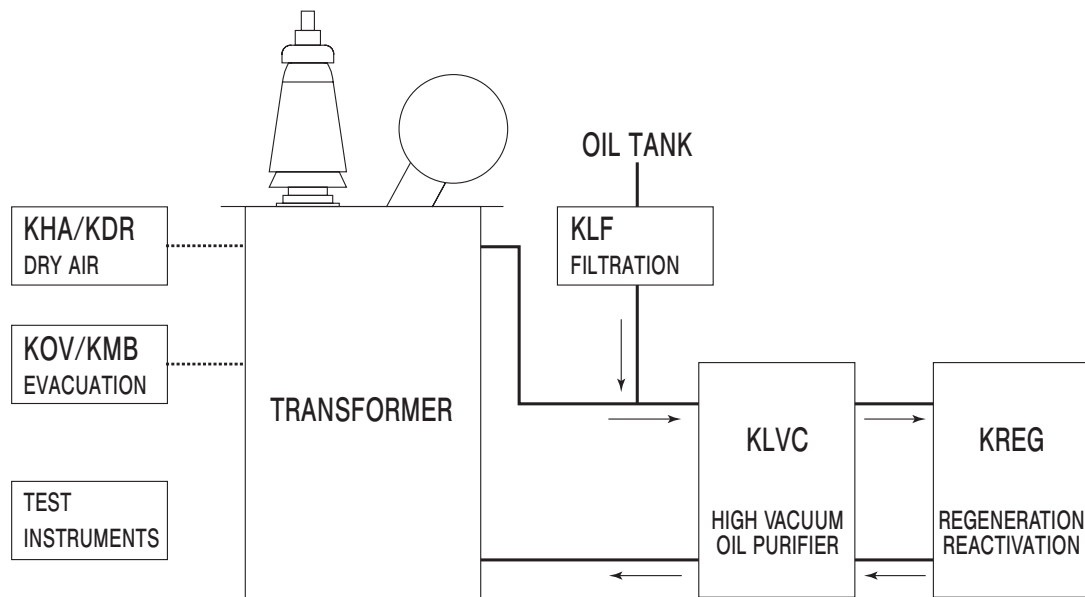


Ask your local representative for more details.

More Attractive Offer from KATO

Besides the complete REGENERATION PLANT, we are offering the independent system REGENERATION with REACTIVATION DEVICE **Model KREG series** to connect with the existing KATO High Vacuum Oil Purifier. In the field, those combination can achieve all requirements from **Improve/Recondition of new Insulating Oils for new Transformer to Regeneration with Reactivation for used Transformer oils**. Visit your local distributor with information of your KATO High Vacuum Oil Purifier.

The family of KATO products for the field command



HIGH VACUUM OIL PURIFIER	: KLVC-(AX / AX-I / AX-II)
REGENERATION & REACTIVATION	: KREG
OIL FILTER	: KLF
DRY AIR GENERATOR	: KHA / KDR
VACUUM PUMP SET	: KOV / KMB

Oil is just like blood in human body and Transformer is body itself. Oil can be cleaned and regenerated at the field for longer and healthy Transformer's Life. KATO make the best equipments for your precious oils and Transformer's life. KATO make the best equipment for The need of Operator because KATO have the field Experience since 1923.

KATO ELECTRIC MFG. CO., LTD.

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