

MICAFLUID AG

Oil purification systems

Switzerland 



Oil Treatment Plants
Oil Regeneration Plants
Vacuum Pump Systems
Service, Support & Maintenance
Inspection & Training

www.micafluid.ch



Micafluid AG

Oil Treatment Units



Micafluid's technology used for the conditioning and purification of insulating oil, has been widely used globally over the past century and has offered excellent service and results for its respective customers.

This vast experience over the past decades makes us the ideal partner for service and maintenance companies.

Through research and development we ensure that our machines remain on the cutting edge and on par with the latest industrial standards and protocols.

As part of the transformer lifecycle management, regular servicing is essential. Micafluid is fully aware of the customer's need to reduce the TOC (Total Owning Cost) thus our equipment has been designed to meet this challenge, thereby boosting performance.

All our oil treatment plants type VOP (variable oil purification), with variable flow control, are designed for the economical conditioning and drying of insulating oils using vacuum and micro pore filtration technology. This can be done safely over

Expectations when treating insulating oil:

- Low moisture content at plant outlet
- Low gas/air content at plant outlet
- Elimination of residual gas from the insulation
- Drying of transformer insulation
- Easy and safe operation
- On-line measuring and recording of process parameters
- Flexibility in application (various oil types and oil volumes)



one pass or several passes for a variety of different insulation oils depending on the customer's requirements.

Furthermore our units are PLC controlled, integrating fully automatic functions suitable for off-line (de-energized transformer) as well as on-line (energized transformer) filling, purification and filtration processes.



Micafluid AG Oil Regeneration Units



The only effective treatment for improving the dielectric properties of aged oils is regeneration with Fullers earth.

The activated Fullers earth, has the property to adsorb carbonyl- and hydroxyl groups in oil, as well as small amounts of moisture. The moisture adsorption is insufficient to guarantee effective drying; however, treatment of the oil with Fuller's earth combined with vacuum drying yields excellent results.

The unit consists of one or several adsorption columns, a filter housing and eventually an inhibition set.

With this compact and mobile installation, which constitutes a combination of a two-stage oil conditioning set with oil treatment plant type **VOP** and oil regeneration unit type **CRP3000**.

Regeneration unit type **CRP3000** are generally connected in series with a separate drying and degassing oil treatment plant type **VOP**.

Benefits & Applications:

- Reconditioning of aged insulating oil
- Removal of acidity
- Improvement of dissipation factor tan delta
- Improvement of oil colour



Having extensive knowledge in all aspects related to vacuum processes, insulation and High voltage equipment, Micafluid AG is in pole position to assist users of oil reconditioning and regeneration units and processes.

Different types of Micafluid Oil Treatment Plants & Vacuum Pump Units



Standard Oil Treatment Plants

- VOP010 300 - 1 000 lt/h
- VOP030 1 000 - 3 000 lt/h
- VOP060 2 000 - 6 000 lt/h
- VOP090 3 000 - 9 000 lt/h



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Vacuum Pump Systems

- VPU900 900 m³/h
- VPU1000 1 000 m³/h
- VPU2000 2 000 m³/h
- VPS2500 2 500 m³/h



Oil Filtration Units

- OFP010 300 - 1 000 t/h

Micafluid AG

Service, Support & Maintenance

Inspection & Training



Beside the production of oil treatment and filtration systems, we offer a comprehensive service for older and new systems. For the inspection of the facilities on-site, or repair and maintenance on-site or in our workshop, our engineers provide the necessary expertise, experience and equipment.



Service and Maintenance

Oil treatment plants as well as vacuum pump units or regeneration units which require maintenance are completely repaired and tested by our service specialists. A detailed service protocol indicates the state of the unit at arrival, performed work and testing as well as new guaranteed performance after revision.

Inspection & Training

During training and commissioning, our process engineers perform training for the operators at our workshop in Zurich.

This can also be done at customer's facilities on-site. The operators are trained in the concepts around "best practice", process control, operation and maintenance. If malfunctions or interruptions of the operation occur, are our engineers available 24hrs a day to assist the operators on-site.

New!

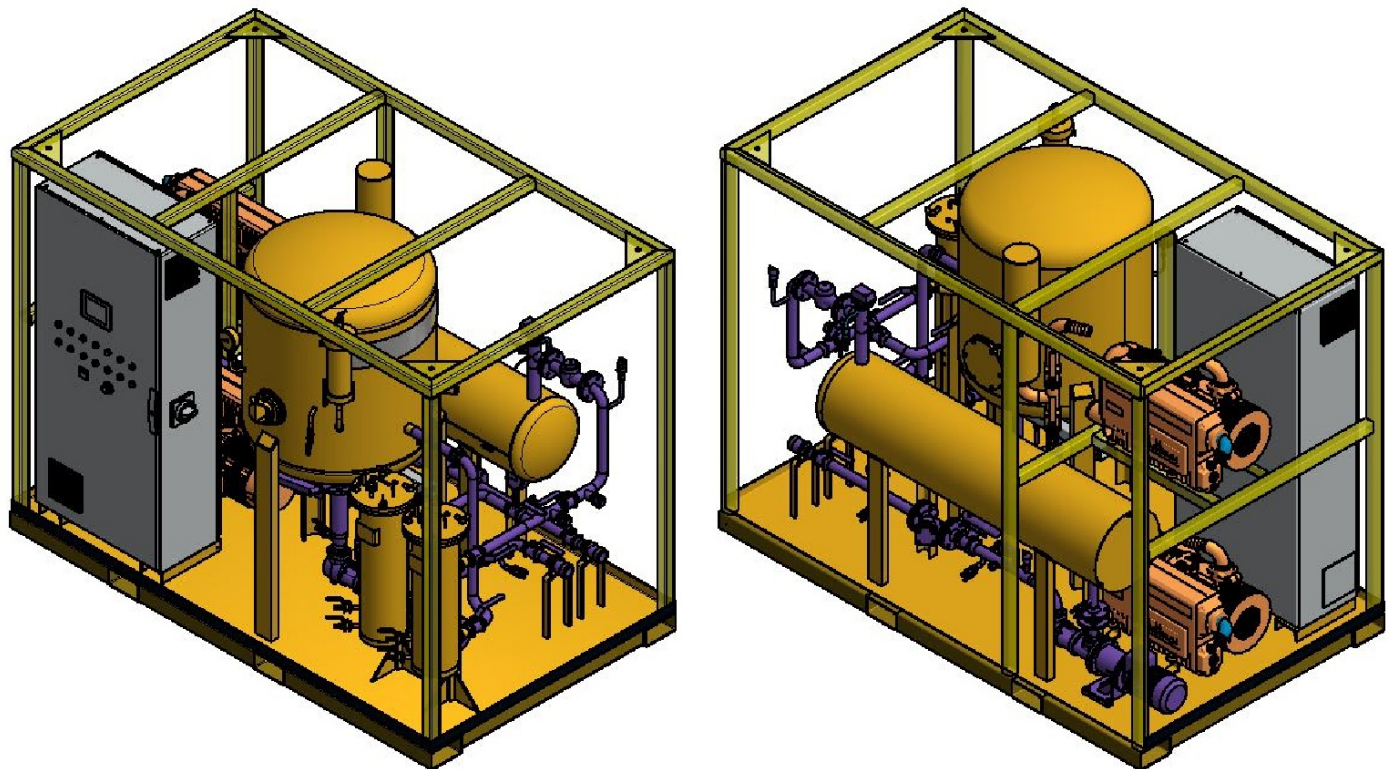
Furthermore, with Micafluid's MVA (Machine Virtual Assistance) Support Platform we are able to support our customers directly through direct machine access. The MVA Support Platform also allows the customer direct remote process supervision as well as remote alarming through several communication protocols.



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MICAFLUID IS THE LEADING MANUFACTURER OF OIL PURIFICATION SYSTEMS AND OFFERS A DECISIVE CONTRIBUTION TO MAXIMUM QUALITY OF INSULATING FLUIDS

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