



YOUR PARTNER IN VACUUM
TECHNOLOGY



EOK[®] Series

Vacuum Oil Purifying Plants

Hering - VPT GmbH
www.hering-vpt.de

HERING – Vacuum Process Technology

Invaluable experience and customized solutions powered by German Engineering

HERING VPT has specialized in improving the life cycle of transformers. Already in 1909 the first HERING oil purification plant was built and gave the possibility to carry out an internal and external insulating oil treatment by the use of a vapour-oil boiler. This was the starting point for a number of inventions like Transformer Drying ovens, Impregnating Plants and other vacuum products for the transformer industry. With this **experience collected in over 100 years of successful operation**, continuous efficiency improvements of our plants are carried out.

Hering Systems are remarkable for their efficient and robust design, as well as their ease of operation and maintenance. We install **only high quality components from Germany**, respected West European brand manufacturers. Our systems are designed for **long lifetime, reliability** and effective operation. Each plant is **custom-made** and delivered with all required aggregates to leave nothing to be desired.

Together, we will develop the perfect solution for you and your company. We are looking forward to serving you!



HERING – Vacuum Process Technology

Provides a range of plants suitable for three main fields of application

In order to assist you with making an informed decision and to provide an optimal price-performance-ratio, we are offering our plants in three main series (EOK-Basic, EOK-Standard and EOK-Professional). Furthermore, if required each plant can be specifically tailored to your requirements.

EOK - B BASIC

Filling of new transformers
AND Treatment of oil in
storage tanks

- Basic application
- Cost-efficient
- Simple operation
- Fast Amortization

EOK - S STANDARD

On-site transformer
service/repair

- Standard application
- Simple handling
- High comfort
- Automatic cleaning process

EOK - P PROFESSIONAL

Complete spectrum

- Professional application
- High flexibility
- Very short cleaning time
- High ease of use

HERING – Vacuum Process Technology

Effective oil purification using vacuum technology is key to ensure sufficient dielectric strength

The standard purification plant is generally equipped with oil filters, oil pumps, an oil heater, a vacuum pump and the degassing tank.

The application of the vacuum process causes a decrease of the boiling point by reducing the pressure. The oil is consequently heated up in order to evaporate water inside the liquid.

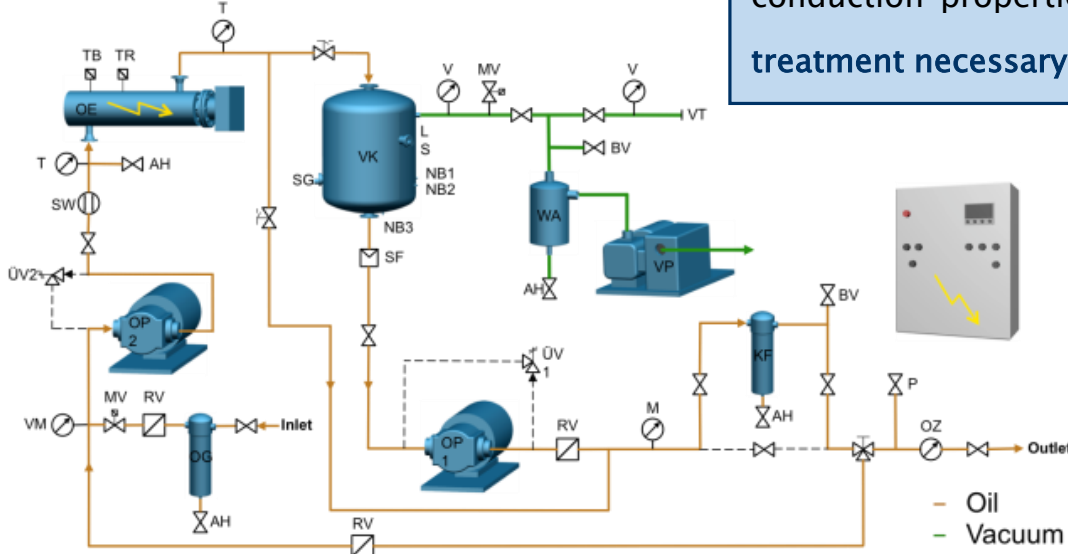
Other contaminations are removed using a filter system.

The dielectric strength of the oil filling decreases in practical operation.

The reason for this is oil aging or possible contaminations:

- **External** (e.g. water, water vapor or gases from housing leakage)
- **Internal** (e.g. erosion of micro particles, diffusion of residual humidity or internal arcing)

All these mechanical, physical and chemical processes reduce the electrical and thermal conduction properties of the oil and make treatment necessary.



Exemplary flow chart of a HERING purification plant

HERING – Vacuum Process Technology

Different plant layouts are available to satisfy your personal needs

PLANT MOUNTED ON A
BASE PALTE ¹⁾



Without cover



With tarpaulin cover

PLANT MOUNTED ON A
TROLLEY ¹⁾



With tarpaulin cover



With metal cover

PLANT MOUNTED
ON A STREET
LEGAL TRAILER ¹⁾



With tarpaulin cover



With metal cover

PLANT MOUNTED IN
A SEA CONTAINER ²⁾



¹⁾ The size of the base plate, trolley or trailer depends on the dimension of the plant.
²⁾ The container is available in different sizes.

HERING – Vacuum Process Technology

Plants are available in different versions with a number of accessories

In order to guarantee the right size for your plant we are offering a wide range of plant capacities. Other sizes will be designed and provided on request.

	EOK 500	EOK 1000	EOK 2000	EOK 4000
Flow rate [l/h]	500	1000	2000	4000
End value ¹⁾ [ppm/Vol.%]	<5 / <0,1	<5 / <0,1	<5 / <0,1	<5 / <0,1

	EOK 6000	EOK 8000	EOK 10000	EOK 12000
Flow rate [l/h]	6000	8000	10000	12000
End value ¹⁾ [ppm/Vol.%]	<5 / <0,1	<5 / <0,1	<5 / <0,1	<5 / <0,1

1) Based on prior condition: 20°C, 50 ppm water content and 10 Vol.% gas content; after one passing for type P. on full flow rate capacity

ACCESSORIES

Measuring instruments:

- Dielectric Strength
- Moisture
- Dielectric Loss Factor
- Particle Counter

Equipment & Special Applications:

- Fullers Earth Device
- Oil Regeneration Unit
- Cable Oil Purification Plants
- Special Customized Plants

HERING – Vacuum Process Technology

Provides complementary training services for your benefit

HERING VPT offers its costumers in the context of the order fulfillment a **free training** for a safe operation of your plant in our company's facility. Furthermore, on costumer's demand an **on-site training** can be offered.

To ensure a proper operation of your system HERING VPT recommends an **on-site service**. This will be coordinated directly by HERING VPT and partly carried out with qualified partners.

Plants older than 30 years fall naturally under the plant service.



We are available for you **24 hours** a day, **7 days a week** in order to help you with your plant problems.

HERING – Vacuum Process Technology

The standard in transformer oil purification and insulation treatment solutions



Vacuum Oil Purifying Plant

Transformer Oil Regeneration Systems

Vacuum Drying Plant

Bushing Dryer

Vacuum Pumping Station

Oil Storing and Filling Plant

Vacuum Pressure Impregnation Plant

Hot Oil Spraying System



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