



YOUR PARTNER IN  
TRANSFORMER TECHNOLOGY



**ISODRY<sup>®</sup> Series**  
Online Transformer Insulation Drying  
Systems

Hering - VPT GmbH  
[www.hering-vpt.com](http://www.hering-vpt.com)

# HERING - VPT

## 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!



Mobile HERING EOK-TORS® Series

Hering - VPT GmbH  
[www.hering-vpt.com](http://www.hering-vpt.com)



# HERING - VPT

## Complete range of customized solutions for your transformer maintenance needs

HERING prides itself on the number of transformer treatment options that it offers its business partners. The **ISODRY® Series** is focused specifically on moisture removal, particularly from the paper insulation in the transformer core.

The harmful effect of water on the

transformer dielectric strength is generally well-known and appreciated and there are a number of solutions that address that. The **ISODRY® Series**, and its vacuum based complement, TIDO, reduce aging effects on the cellulose insulation by continuously removing water – unattended.

Transformer Treatment Options

Solutions Provided	Hering Model Types				
	ISODRY	TIDO	EOK	EOK-TORS	PCB
Removes moisture from oil	✓	✓	✓	✓	✓
Extends transformer life	✓	✓	✓	✓	✓
Works on energised transformers	✓	✓	✓	✓	✓
Remote access, control or monitoring	✓	✓	✓	✓	✓
Dries the paper insulation	✓	✓	✓	✓	
Unattended operation	✓	✓			
Reduces moisture build-up	✓				
Preserves historical DGA	✓				
Removes oxygen from oil		✓	✓	✓	✓
Removes other gas from oil		✓	✓	✓	✓
Removes particulate from oil			✓	✓	✓
Decreases acidity				✓	✓
Improves oxidation stability				✓	✓
Improves power factor				✓	✓
Restores oil to 'as new'				✓	✓
Removes PCB					✓



# HERING - VPT

## Continuous online removal of moisture - with protection of DGA history

The **HERING ISODRY®** online transformer insulation dry out systems do not require the use of vacuum equipment and rely on an adsorbent molecular sieve media that will not absorb oil but will **remove – and hold – moisture** from the oil. Dry oil is hygroscopic and when circulated back to the insulation after passing through the columns, adsorbs moisture from the paper insulation in a dynamic process. A low-speed oil pump circulates the oil continuously or in user-determined operation cycles.

Inlet and outlet inline hygrometers constantly measure the water removed and indicate both locally and remotely when there is a need to replace the media in the columns. **Change-out is rapid and** with each column able to hold around 3.5 kg of water, **infrequent**.

The ISODRY® represents a modern solution to an age-old problem and comes

with state-of-the-art options including remote monitoring, control and access, bright, local readout using Siemens state-of-the-art HMI and vivid graphics that allow for instant ease of understanding. A comprehensive monitoring and alarm system complete the package.



# HERING - VPT

## Economic and operational benefits make our HERING ISODRY® Series your perfect choice

Online drying your transformers with the ISODRY® Series grants:

- **Benefits for new transformers** – moisture content can be kept below the original factory level, thus protecting the transformer from day 1
- **Benefits for older or wet transformers** – Continuous drying over several months brings down moisture to acceptable levels for extended lifetime
- **Effective moisture removal for oil & paper** – ISODRY® ensures lowest possible moisture within transformer oil and insulation material
- **Insulation drying for vacuum-rated and non-vacuum-rated transformers** – The moisture removal takes place within the vacuum tight ISODRY® equipment without affecting the transformer operation
- **No downtime due to transformer overhaul** – ISODRY® units can be operated on energized transformers

as effectively as on un-energized transformers



# HERING - VPT

## 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 - VPT

## Different housing options available to ensure ideal solution for all applications



ISODRY is offered with two different housing options:

- **Sturdy steel frame housing** – Columns freely accessible from all sides
- **Completely enclosed housing** – Housing of choice for demanding climates & optimum protection of all ISODRY components



# HERING - VPT

## The standard in oil purification and insulation treatment solutions



- ◆ Vacuum Oil Purifying Plants
- ◆ Transformer Oil Regeneration Systems
- ◆ PCB Removal Systems
- ◆ Vacuum Drying Plants
- ◆ Waste/Lube Oil Re-refining Plants (Front-end & Back-end Solutions)
- ◆ Base Oil/Recycled Oil Polishing Systems
- ◆ Vacuum Pumping Stations
- ◆ Bushing Dryers
- ◆ Oil Storing and Filling Plants
- ◆ Hot Oil Spraying Systems
- ◆ Vacuum Pressure Impregnation Plants



### ADDRESS

Hering-VPT  
D-91550 Dinkelsbühl  
Ernst-Schenk-Str.10  
Germany  
Telephone: +49 9831 8834666

Hering-VPT  
D-91710 Gunzenhausen  
Richard-Stücklen-Strasse 19  
Germany

### Canada

Hering-VPT,  
Suite 391, 6-425 Hespeler Road  
Cambridge N1R 8J6  
Canada  
Telephone: +1 226 221 0061

### EMAIL

[info@hering-vpt.de](mailto:info@hering-vpt.de)