



# GIEBEL

FilTec GmbH

**DESIGNED AND  
PRODUCED  
IN GERMANY**



Your contact for original GIEBEL Adsorber®

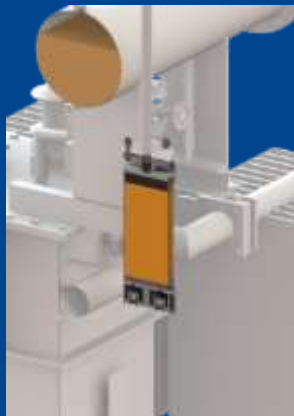


# DEHUMIDIFIER FOR TRANSFORMERS

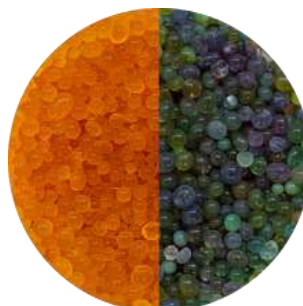


Weather influences as well as constant load changes of transformers provide for temperature fluctuations and thus for pressure equalization with the environment.

The moist ambient air drawn in on cooling leads in the transformer to the hydrolysis of the cellulose paper and thus to a reduction of its degree of polymerization. Dehumidifiers from GIEBEL protect the transformer, in which the moist incoming air is effectively dried and filtered.

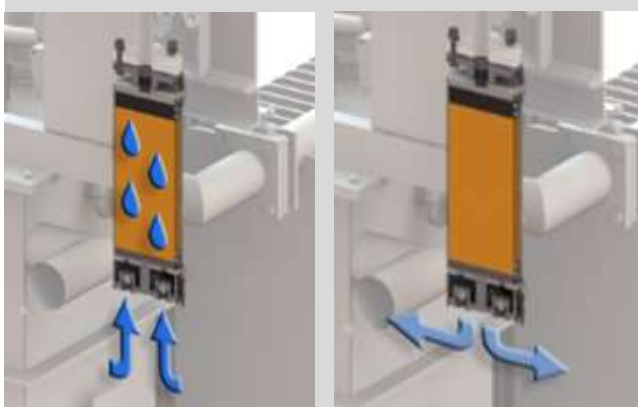


In order to prevent the occurrence of damage caused by condensation water, the use of a dehumidifier is an indispensable measure. The inflowing air is dried and thus achieved a strong reduction of the water content and the dew point. In addition to a mechanical valve system and an air filter element, these silica gel dryers use the regeneration capability of the desiccant used.





## USE OF THE SERIES VARIO TB



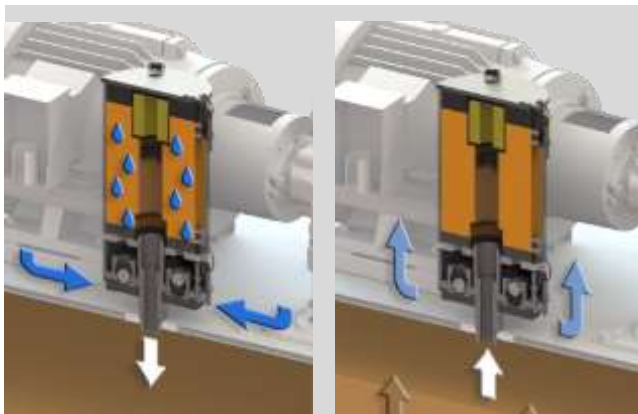
### Special feature:

Hanging design, strong aluminum valve part, activated carbon for oil mist and self-regeneration, large frost-proof aluminum valves, equipped with all DIN connections

### Application areas:

Excellent air drying, no gluing or freezing of valves, separation of oil aerosols, easy handling without tools, long service intervals due to self-regeneration

## USE OF THE SERIES VARIO



### Special feature:

Steady design, strong aluminum valve part, large frost-resistant aluminum valves, pre-filter disc against dust, oil extractor for escaping air

### Application areas:

Excellent air drying, no sticking or freezing of the valves, separation of oil aerosols, easy handling without tools, long service intervals due to high amount of desiccant




## ADSORBER TRANSFORMERS



Adsorber	VARIO PA	VARIO TB PA	VARIO TB ME
<b>Usage</b>	<b>Standing</b>	<b>Hanging</b>	
<b>Valves</b>	✓	✓	✓
<b>Rechargeable</b>	✓	✓	✓
<b>According to ATEX 2014</b>	✗	✗	✓
<b>Offshore / Marine suitable</b>	✗	✗	✓
Transformer power / Oil quantity			
<b>0 – 5 MVA</b> up to 2500 l oil	DV 310-PA 07.0000.24	DV TB 310-PA 06.0005.25	DV TB 310-ME 06.0005.12
<b>5 – 10 MVA</b> up to 5000 l oil	DV 330-PA 07.0001.20	DV TB 330-PA 06.0010.24	DV TB 330-ME 06.0010.09
<b>10 – 30 MVA</b> up to 15000 l oil		DV TB 510-PA 06.0015.19	DV TB 510-ME 06.0015.09
<b>30 – 60 MVA</b> up to 30000 l oil		DV TB 530-PA 06.0020.19	DV TB 530-ME 06.0020.09
<b>60 – 100 MVA</b> up to 50000 l oil		DV TB 560-PA 06.0030.19	DV TB 560-ME 06.0030.28

## ACCESSORIES

<b>Adapter II</b>  	AD-II_G1 08.2167.10		
	AD-II_G1-1/4 08.2124.21		
	AD-II_G1-1/2 08.2150.05		
	AD-II_M40x1,5 08.2150.10		



## REFERENCES



## APPLICATIONS

GIEBEL Adsorber® are used for example:

- Distribution transformers
- Traction transformers
- Power transformers for power generation
- Reactors
- High current transformers for the industry
- Arc suppression coils
- Power Transformers
- Machine transformers in power plants
- Transformers for point heaters or train preheating
- and many more !

