



**GIEBEL**  
FiTec GmbH

**OIL MIST SEPERATOR  
ON A  
HYDRAULIC POWER PACK**

**GIEBEL FiTec GmbH**

Carl-Zeiss-Str. 5

74626 Bretzfeld-Schwabbach

Germany

 +49 (0) 7946 / 944401 - 0

 [info@giebel-adsorber.de](mailto:info@giebel-adsorber.de)

 [www.giebel-adsorber.de](http://www.giebel-adsorber.de)





Hydraulic power units are used in oil circulation lubrication systems. These systems cool and lubricate bearings and gearboxes.

Particularly in the case of large or high-speed transmissions in which a high temperature load is present due to the rotational speed or ambient temperature, oil circulation lubrication offers advantages. The oil in the circuit is removed from the hydraulic tank and returned again.



The operation of the oil is very warm and additionally quickly returned to the hydraulic tank so that it swirls in the tank and is present as an aerosol in the air.

Small to very small oil aerosols are pushed through the ventilation filter into the environment. The oil particles are inhaled and settle on all components. The use of an oil mist separator from GIEBEL was tested and monitored for over a year on an engine test bench of an automobile manufacturer.

## Data for the plant

- Operation: Continuous use
- Hydraulic tank with 50-70 l Oil volume
- Hydraulic oil HLP46 Mineral oil
- Oil exchange volume: 35 l/min in the cycle
- Air exchange volume, nearly 0 l/min
- Oil-Temperature: 50-60°C





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## Plant without oil mist separator



The fine aerosols can cause serious health damage to the affected employees.

In addition, the affected equipment and rooms must be cleaned consuming, which causes high costs.

It should also not be forgotten that the precious resource of oil must be replenished regularly.

## Necessity of an Adsorber



In order to protect the environment from oil particles, oil mist separators from GIEBEL are a very effective solution. Through the use of these adsorbers, the large oil aerosols are returned by condensation in the tank and bound the small oil particles in the adsorber.

An outflow of oil mist is thus completely prevented and the function of the hydraulic system is permanently ensured.



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## Function on a test bench

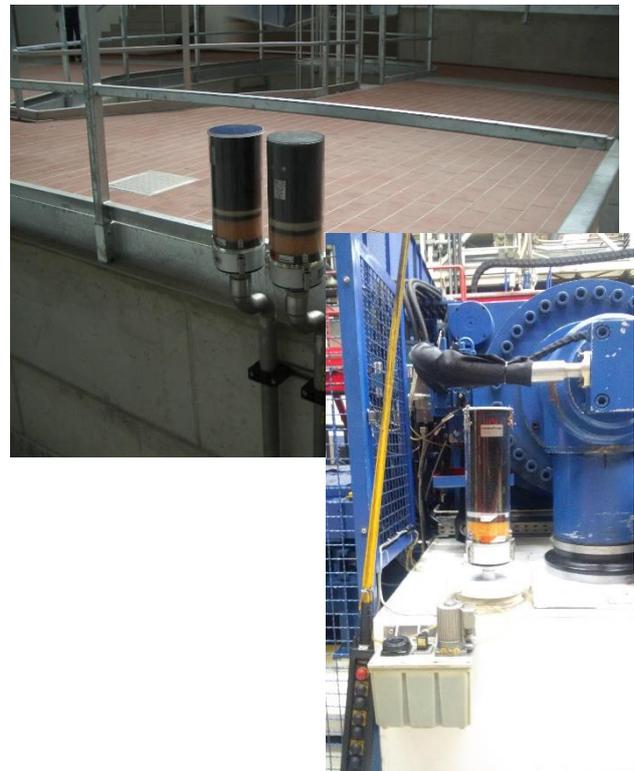


Especially the test benches place high demands on components and have to work permanently and reliably. With the use of GIEBEL Adsorber the protection of the environment from contamination with oil mist should be ensured.

A combination of impeller and demister binds the larger oil particles and drops back into the tank due to condensation. The very small particles of oil are bound by attractive forces of the activated carbon and remain in the adsorber.

In the test carried out by the car manufacturer, the maintenance interval of the adsorber was over 12 months. There could be no more oil flow out of the system.

## Reference & Use Examples



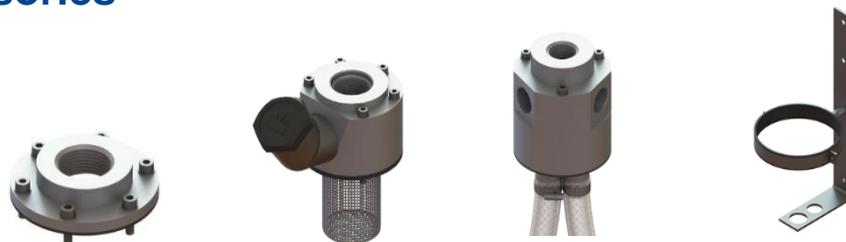


## Select Adsorber



ADSORBER	VARIO VG PA-D	VARIO VG PA-R
Refillable	✗	✓
<b>Tank volume / Air flow volume</b>		
<b>100 – 600 l</b> to 80l/min, max.490l/min.	DV VG 320-PA	DV VG 330-PA
<b>600 – 1800 l</b> to 160l/min, max. 30l/min.	DV VG 520-PA	DV VG 530-PA
<b>1800 – 3600 l</b> to 210l/min, max.1250l/min.	DV VG 550-PA	DV VG 560-PA

## Suitable Accessories



ACCESSORIES	Flange Adapter	Filling Adapter	Oil Bypass Adapter	Wall Mount
<b>Details</b>	Pitch circle 73mm	LK 73mm, Loading aperture for Oil	Connection Next-flow filtration system	Mounting on wall with tube



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Your contact person for GIEBEL Adsorber

