

- Environmental Protection
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DGE's Standard Series DGE-RGAD for ringsorbers for exhaust air decontamination

DGE's ringsorbers are dimensioned as single or multiple bed plants. You can clean large quantities of air with low crude gas concentrations or substances with odour pollution.

DGE's ringsorbers are exhaust air filters that can be used universally for industry, the trades and municipalities. They have a simple structure are maintenance-free.

DGE's ringsorbers can be charged with activated carbon and therefore be used for separation by means of the chemsorption or hydrolysis of:

NO_x, SO₂, H₂S, CS₂, HCN, HCl,
HF, amines, mercaptans, Hg
dioxins, furanes, arsines and phosphines

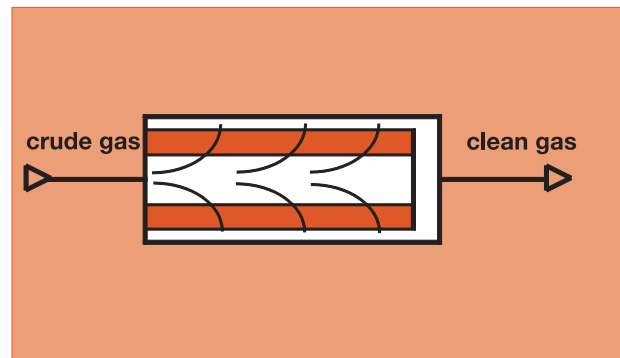
Impregnated activated carbons have an absorption capacity of between 30% to 100% for pollutants depending upon the application.

Integrating **DGE's ringsorbers** into air-conditioning units or suctioning systems for critical production rooms complies with the requirements of preventative occupational safety.

DGE's ringsorbers are used as prefilters for continuously working exhaust air decontamination plants for smoothening solvent peaks or separating disturbing components such as high boilers, oil, etc.

DGE's ringsorbers work with a replaceable activated carbon cartridge that can be easily changed after every load. Apart from the various types of granulated carbon, activated carbon mats are also used with very pressure losses.

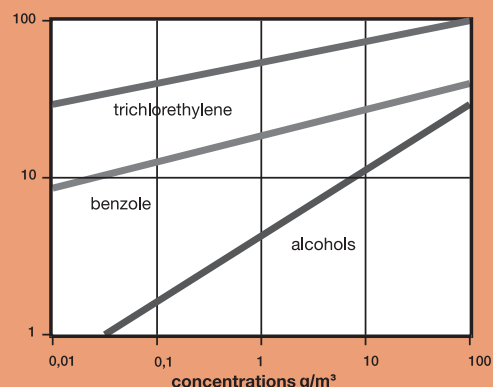
DGE's ringsorbers are made of C-steel, stainless steels, plastics or with a lining depending upon the requirements made of resistance to corrosive media.



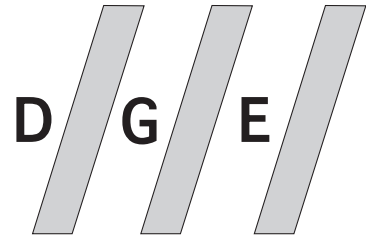
DGE's adsorption technique

with ringsorbers for large quantities of exhaust air and low pollution loads or odour pollution for reliably complying with clean gas values.

Adsorption Isotherms for Various Components of Activated Carbon (absorption capacity in %)



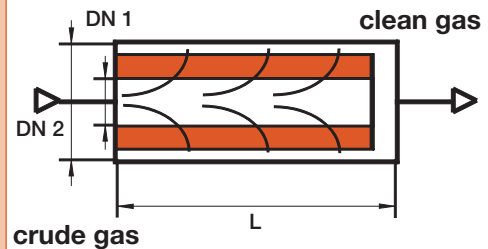
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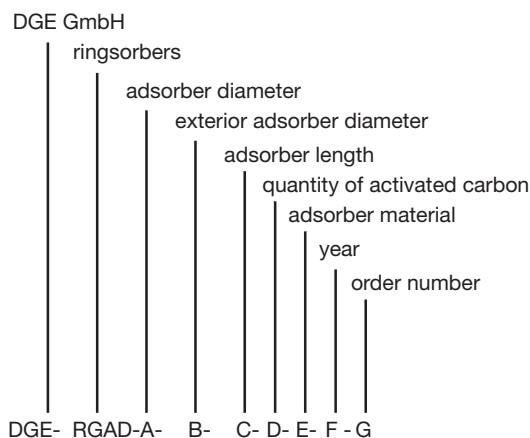
There are the following standard subassemblies for using DGE's ringsorbers for exhaust air decontamination:

| subassembly | quantity of exhaust air | | | m ³ /h | | |
|-------------|-------------------------|-------|-------|-------------------|---|--------|
| | DN 1 | DN 2 | L | | | |
| DGE-RGAD | 150 | 450 | 500 | 150 | - | 350 |
| DGE-RGAD | 150 | 450 | 1.000 | 350 | - | 700 |
| DGE-RGAD | 250 | 600 | 500 | 250 | - | 650 |
| DGE-RGAD | 250 | 600 | 1.000 | 500 | - | 1.300 |
| DGE-RGAD | 400 | 750 | 500 | 350 | - | 900 |
| DGE-RGAD | 400 | 750 | 1.000 | 700 | - | 1.800 |
| DGE-RGAD | 400 | 750 | 1.500 | 1.050 | - | 2.700 |
| DGE-RGAD | 500 | 900 | 500 | 450 | - | 1.150 |
| DGE-RGAD | 500 | 900 | 1.000 | 900 | - | 2.300 |
| DGE-RGAD | 500 | 900 | 1.500 | 1.350 | - | 3.450 |
| DGE-RGAD | 750 | 1.200 | 1.000 | 1.300 | - | 3.400 |
| DGE-RGAD | 750 | 1.200 | 1.500 | 1.950 | - | 5.100 |
| DGE-RGAD | 750 | 1.200 | 2.000 | 2.600 | - | 6.800 |
| DGE-RGAD | 1.000 | 1.500 | 1.500 | 2.550 | - | 6.800 |
| DGE-RGAD | 1.000 | 1.500 | 2.000 | 3.400 | - | 9.100 |
| DGE-RGAD | 1.000 | 1.500 | 3.000 | 5.100 | - | 13.600 |
| DGE-RGAD | 1.400 | 2.000 | 2.000 | 4.750 | - | 12.700 |
| DGE-RGAD | 1.400 | 2.000 | 3.000 | 7.150 | - | 19.050 |
| DGE-RGAD | 1.400 | 2.000 | 4.000 | 9.500 | - | 25.500 |



The dimensions stated are based upon the standard round design.

Typenbezeichnung für DGE-Ringsorber



DGE's ringsorbers are a cost-effective alternative to the miniadsorbers that are often used. **DGE's ringsorbers** are especially suited for use if only small pressure losses of under 10 mm WS are permissible on the gas side. Using activated carbon mats makes it possible to set pressure losses as low as desired.

Model designation for **DGE's ringsorbers**, DGE's ringsorbers are system solutions for environmental protection. Its specially developed construction reaches the greatest possible flowing surface. Even if there is little space, this makes it possible to treat greater quantities of air with lower pollutant loads. Ringsorbers are an optimum application for eliminating odour pollution.

DGE's ringsorbers can be installed into existing performance at any time. The carbon can be exchanged by simply replacing the filter insert. As a safety filter in front of continuously working activated carbon plants, DGE's ringsorber can remove disturbing components and smoothen crude gas peaks. Other combinations can be made with other cleaning techniques at any time such as biofilters.

DGE's ringsorbers also have a wide range of applications for almost all industrial areas by using impregnated activated carbons.

We offer our customers a service for especially sensitive plant systems with our **mobility guarantee** and repair guarantee within 24 hours.