

SILOXA Gas Cleaning System



Activated carbon adsorber range

Biogas always contains hydrogen sulphide (H₂S) and can also contain VOCs. Sewage gas and landfill gas also contain siloxanes and other organic silicon compounds. Filtering these pollutants out of the gas is the task of the stationary SILOXA activated carbon adsorbers of the type FAKA as well as the mobile activated carbon adsorbers of the type MAKA.

TYPE I – MAKA (Stainless Steel 1.4301)

Advantages:

- Simple plug-in & -out system
- Clean & fast changeover
- Very short-term delivery of replacement filters possible



MAKA 200



MAKA 700 (HD)



MAKA 1100 (HD)

Permissible operating pressure	> -5 / < 150 mbar/ü	> -5 / < 100 mbar/ü	> -5 / < 100 mbar/ü
Nominal volume flow (m ³ /h)*	40–180	100–400	150–650
Number of chambers	1	1	1
Activated carbon (liter)	200	700	1,100

TYPE II – FAKA (Black Steel S235)

Advantages:

- Filter is permanently installed, activated carbon is replaced on site
- Suitable for higher raw gas loads and volume flows
- 2-chamber system maximizes service life



FAKA 1000 K1



**FAKA 2000 K2
FAKA 3000 K1**



**FAKA 4000 K2
FAKA 5000 K1**

Permissible operating pressure	> -5 / < 250 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar
Nominal volume flow (m ³ /h)*	150–650	250–900	250–900
Number of chambers	1	1+2	1+2
Activated carbon (liter)	1.000	2,000 / 3,000	4,000 / 5,000



**FAKA 6000 K2
FAKA 7000 K1**



FAKA 10000 K1



FAKA 20000 K1

Permissible operating pressure	> -40 / < 500 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar
Nominal volume flow (m ³ /h)*	500–1,900	500–1,900	1,600–4,000
Number of chambers	1+2	1	1
Activated carbon (liter)	6,000 / 7,000	10,000	20,000



Activated carbon adsorber range

TYP III – FAKA (Stainless Steel 1.4301)

Currently, we do not sell stainless steel filters as standard, so prices, drawings, delivery times and other details must be requested individually.



Advantages:

- Integrated crane system with electric chain hoist
- Suitable for particularly high requirements for corrosion resistance (C5-medium)



FAKA 1000 K1E



FAKA 1500 K1E



FAKA 3000 K1E

Permissible operating pressure	> -5 / < 250 mbar	> -50 / < 200 mbar	> -100 / < 300 mbar
Nominal volume flow (m ³ /h)*	150–650	150–650	250–900
Number of chambers	1	1	1
Activated carbon (liter)	1,000	1,500	3,000



**FAKA 6000 K2E
FAKA 7000 K1E**



TWIN FAKA 3000 K1E



**TWIN FAKA 6000 K2E
TWIN FAKA 7000 K1E**

Permissible operating pressure	> -100 / < 300 mbar	> -100 / < 300 mbar	> -100 / < 300 mbar
Nominal volume flow (m ³ /h)*	500–1,900	250–900	500–1,900
Number of chambers	1+2	2x1	2x2 / 2x1
Activated carbon (liter)	6,000 / 7,000	2x3,000	2x6,000 / 2x7,000

