Technical Data
TYPE II – FAKA

SILOXA

Stationary gas cleaning

Design parameters

	FAKA 1000K1*	FAKA 2000K2*	FAKA 3000K1*	FAKA 4000K2*	FAKA 5000K1*
Material	Steel with electrostatically conductive inner coating				
Medium	Biogas				
Activated carbon replacement system	Big Bag				
Number of chambers	1	2	1	2	1
Diameter of the filter	950 mm	1,270 mm	1,270 mm	1,270 mm	1,270 mm
Activated carbon in the working filter	1,000 l	1,000 l	3,000 l	2,000 l	5,000 l
Activated carbon in the control filter	–	1,000 l	–	2,000 l	–
Nominal flow rate	120-450 Nm^3/h	250-900 Nm^3/h	250-900 Nm^3/h	250-900 Nm^3/h	250-900 Nm^3/h
Operating temperature	4 °C to 80 °C				
Permissible operating pressure	> -5 / < 250 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar
Max. operating temperature	80 °C				
Pressure loss at max. vol.	< 10 mbar	< 17 mbar	< 25 mbar	< 32 mbar	< 41 mbar

Gas composition

Methan CH_4	ca. 60 vol.%
Carbon dioxide CO_2	ca. 40 vol.%
Oxygen O_2	> 0.5 & < 2 vol.%
Max. hydrogen sulphide H_2S	1,000 ppm**

Physical properties

Gas density	ca. 1.2 kg/Nm^3
Specific heat capacity C_p	ca. 1.6 kJ/Nm^3K

Installation conditions

	FAKA 1000K1*	FAKA 2000K2*	FAKA 3000K1*	FAKA 4000K2*	FAKA 5000K1*
Installation site	Outside				
Permissible ambient temperature	-20 °C to +40 °C				
Inlet/outlet	DN 100/100 PN10	DN 150***/150 PN10	DN 150***/150 PN10	DN 150***/150 PN10	DN 150***/150 PN10
Inlet height	1,800 mm	2,200 mm	2,200 mm	2,200 mm	2,200 mm
Dimensions (L x W x H)	2,169 x 1,885 x 4,127 mm	2,338 x 2,063 x 5,430 mm	2,338 x 2,063 x 5,430 mm	2,338 x 2,063 x 7,081 mm	2,338 x 2,063 x 7,081 mm
Empty weight****	650 kg	1,280 kg	1,200 kg	1,680 kg	1,600 kg
Operating weight****	1,350 kg	2,880 kg	3,600 kg	4,880 kg	5,600 kg
Type of insulation	50 mm mineral wool / sheet aluminium				
Version: platform/ladder	Acc. to DIN EN ISO 14122				

* All versions also available as TWIN
** For higher H_2S content please contact Siloxa
*** Without option inlet adapter IA gas inlet DN200 PN10
**** The values given here are guidelines. The actual weight can be found in the final layout plan.

Technical Data
TYPE II – FAKA

SILOXA

Stationary gas cleaning

Design parameters

	FAKA 6000K2*	FAKA 7000K1*	FAKA 10000K1*	FAKA 20000K1*
Material	Steel with electrostatically conductive inner coating			
Medium	Biogas			
Activated carbon replacement system	Big Bag			
Number of chambers	2	1	1	1
Diameter of the filter	1,900 mm	1,900 mm	1,900 mm	2,290 mm
Activated carbon in the working filter	3,000 l	7,000 l	10,000 l	20,000 l
Activated carbon in the control filter	3,000 l	–	–	–
Nominal flow rate	500-1,900 Nm^3/h	500-1,900 Nm^3/h	500-1,900 Nm^3/h	750-2,800 Nm^3/h
Operating temperature	4 °C to 80 °C			
Permissible operating pressure	> -40 / < 500 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar	> -40 / < 500 mbar
Max. operating temperature	80 °C			
Pressure loss at max. vol.	< 21 mbar	< 25 mbar	< 35 mbar	< 52 mbar

Gas composition

Methan CH_4	ca. 60 vol.%
Carbon dioxide CO_2	ca. 40 vol.%
Oxygen O_2	> 0.5 & < 2 vol.%
Max. hydrogen sulphide H_2S	1,000 ppm**

Physical properties

Gas density	ca. 1.2 kg/Nm^3
Specific heat capacity C_p	ca. 1.6 kJ/Nm^3K

Installation conditions

Installation site	Outside			
Permissible ambient temperature	-20 °C to +40 °C			
Inlet/outlet	DN 200/200 PN10	DN 200/200 PN10	DN 200/200 PN10	DN 250/250 PN10
Inlet height	2,200 mm	2,200 mm	2,200 mm	2,600 mm
Dimensions (L x W x H)	3,023 x 2,286 x 7,072 mm	3,023 x 2,286 x 7,072 mm	3,023 x 2,286 x 8,172 mm	3,416 x 2,789 x 9,528 mm
Empty weight****	2,230 kg	2,120 kg	2,500 kg	4,000 kg
Operating weight****	7,030 kg	7,720 kg	10,500 kg	20,000 kg
Type of insulation	50 mm mineral wool / sheet aluminium			
Version: platform/ladder	Acc. to DIN EN ISO 14122			

* All versions also available as TWIN
** For higher H_2S content please contact Siloxa
**** The values given here are guidelines. The actual weight can be found in the final layout plan.