Technical Data
TYPE III – FAKA

SILOXA

Stationary gas cleaning

Design parameters

	FAKA 1000K1E	FAKA 1500K1E	FAKA 3000K1E	FAKA 6000K2E
Material	Stainless Steel (1.4301)			
Medium	Biogas; Sewage / landfill gas			
Activated carbon replacement system	Big Bag			
Number of chambers	1	1	1	2
Diameter of the filter	950 mm	1,220 mm	1,270 mm	1,900 mm
Activated carbon in the working filter	1,000 l	1,500 l	3,000 l	3,000 l
Activated carbon in the control filter	–	–	–	3,000 l
Nominal flow rate	120-450 Nm^3/h	150-650 Nm^3/h	250-900 Nm^3/h	500-1,900 Nm^3/h
Operating temperature	4 °C to 80 °C			
Permissible operating pressure	> -5 / < 250 mbar	> -50 / < 200 mbar	> -100 / < 300 mbar	> -10 / < 300 mbar
Max. operating temperature	80 °C			
Pressure loss at max. vol.	< 21 mbar	< 11 mbar	< 22 mbar	< 37 mbar

Gas composition

Methan CH_4	ca. 60 vol.%
Carbon dioxide CO_2	ca. 40 vol.%
Oxygen O_2	> 0.5 & < 3 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 100 PN10	DN 150 PN10	DN 200/200 PN10	DN 200/200 PN10
Inlet height	1,800 mm	491 mm	2,200 mm	2,200 mm
Dimensions (L x W x H)	1,885 x 2,169 x 4,127 mm	1,704 x 1,385 x 2,514 mm	3,742 x 3,090 x 6,822 mm	2,470 x 3,341 x 6,660 mm
Dimensions (incl. crane)	Not available	Not available	3,742 x 3,090 x 9,980 mm	3,747 x 3,341 x 9,980 mm
Empty weight**	650 kg	750 kg	2,700 kg	2,850 kg
Operating weight**	1,350 kg	1,950 kg	5,100 kg	8,450 kg
Type of insulation	50 mm mineral wool / sheet aluminium			
Max. lifting weight crane	nicht verfügbar	nicht verfügbar	650 kg	
Version: platform/ladder	Acc. to DIN EN ISO 14122			

* 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.

Technical Data
TYPE III – FAKA

SILOXA

Stationary gas cleaning

Design parameters

	FAKA 7000K1E	TWIN-FAKA 3000K1E***		TWIN-FAKA 6000K2E		TWIN-FAKA 7000K1E	
Material	Stainless Steel (1.4301)						
Medium	Biogas; Sewage / landfill gas						
Activated carbon replacement system	Big Bag						
Number of chambers	1	1	1	2	2	1	1
Diameter of the filter	1,900 mm	1,270 mm	1,270 mm	1,900 mm	1,900 mm	1,900 mm	1,900 mm
Activated carbon in the working filter	7,000 l	1,500 l	1,500 l	3,000 l	3,000 l	7,000 l	7,000 l
Activated carbon in the control filter	–	–	–	3,000 l	3,000 l	–	–
Nominal flow rate	500-1,900 Nm³/h	250-900 Nm³/h		1,400-1,700 Nm³/h		1,700-2,000 Nm³/h	
Operating temperature	4 °C to 80 °C						
Permissible operating pressure	> -10 / < 300 mbar	> -100 / < 300 mbar					
Max. operating temperature	80 °C						
Pressure loss at max. vol.	< 30 mbar	< 22 mbar		< 37 mbar		< 30 mbar	

Gas composition

Methan CH_4	ca. 60 vol.%
Carbon dioxide CO_2	ca. 40 vol.%
Oxygen O_2	> 0.5 & < 3 vol.%
Max. hydrogen sulphide H_2S	1,000 ppm*

Physical properties

Gas density	ca. 1.2 kg/Nm³
Specific heat capacity C_p	ca. 1.6 kJ/Nm³K

Installation conditions

Installation site	Outside			
Permissible ambient temperature	-20 °C to +40 °C			
Inlet/outlet	DN 200/200 PN10			
Inlet height	2,200 mm			
Dimensions (L x W x H)	2,470 x 3,341 x 6,660 mm	3,300 x 2,450 x 6,873 mm	5,207 x 2,738 x 6,873 mm	5,207 x 2,738 x 6,873 mm
Dimensions (incl. crane)	3,747 x 3,341 x 9,980 mm	5,511 x 2,450 x 9.980 mm	6,716 x 2,738 x 9,980 mm	6,716 x 2,738 x 9,980 mm
Empty weight**	2,950 kg	5,600 kg	6,900 kg	6,900 kg
Operating weight**	7,750 kg	10,600 kg	16,500 kg	18,100 kg
Type of insulation	50 mm mineral wool / sheet aluminium			
Max. lifting weight crane	650 kg	1,000 kg		
Version: platform/ladder	Acc. to DIN EN ISO 14122			

* 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.
*** Version with control filter on request