Technical Data
TYPE I – MAKA

SILOXA

Mobile gas cleaning

Design parameters

	MAKA 200	MAKA 700 (HD)	MAKA 1100 (HD)
Material	Stainless steel (1.4301)		
Medium	Biogas		
Activated carbon replacement system	Deposit system		
Number of chambers	1		
Diameter of the filter	630 mm	950 mm	1,160 mm
Activated carbon in the working filter	approx. 180 l, corresponding to approx. 80–100 kg*	700 l	1,100 l
Nominal flow rate	40-180 Nm^3/h	100-400 Nm^3/h	150-650 Nm^3/h
Operating temperature	4 °C to 80 °C		
Permissible operating pressure	> -5 / < 150 mbar	> -5 / < 100 mbar	> -5 / < 100 mbar
Permissible operating pressure with option HD	–	> -5 / < 250 mbar	> -100 / < 300 mbar
Max. operating pressure**	max. 160 mbar		
Max. operating temperature	80 °C		
Max. operating temperature**	60 °C		
Pressure loss at max. vol.	< 10 mbar		
Pressure loss at max. vol.**	< 13 mbar		

Gas composition

Methan CH_4	ca. 60 vol.%
Carbon dioxide CO_2	ca. 40 vol.%
Oxygen O_2	> 0.5 & < 2 vol.%
Relative gas humidity	50-60%
Hydrocarbon > C_5	< 100 mg/m^3
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 50 PN10	DN 125 PN10	DN 150 PN10
Inlet hight	103 mm	230 mm	287 mm
Dimensions (L x W x H)	730 x 720 x 930 mm	1,070 x 1,050 x 1,780 mm	1,283 x 1,252 x 1,835 mm
Operating weight	260 kg	910 kg	1,210 kg

* depending on the type of activated carbon and the bulk density of the respective batch
** With Option deflagration protection
*** For higher H_2S content please contact Siloxa