



**Specifications Biogas / Sewage gas CHP FMB-1180-BSM / KSM**

Issue: 08\_2009\_001 data sheet

**Engine specifications**

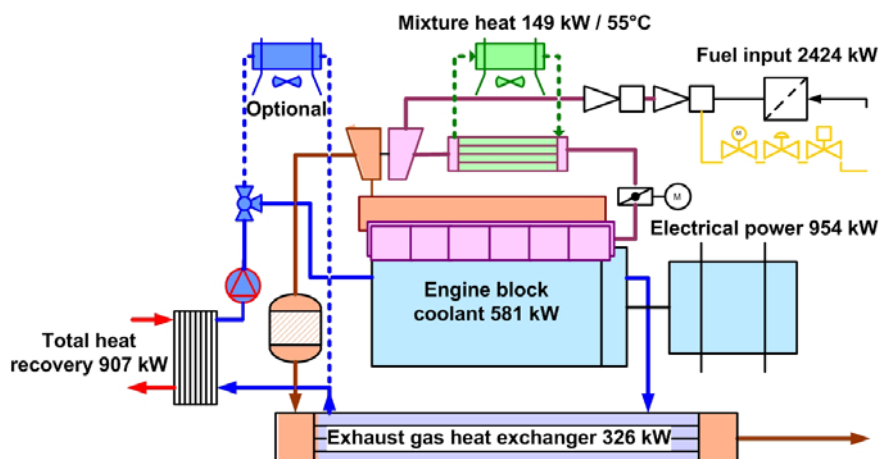
Manufacturer		Guascor
Type		SFGLD 560/55
Speed	min <sup>-1</sup>	1500
Displacement	Liter	56,4
Number of cylinders		16 / V
Intake	Leanburn engine turbocharged and external mixture cooling	
Generator	400V~ / 50Hz / synchronous	

**Performance data**

		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	954	716	477
Total heat recovery	+/- 8% kW	907	727	568
-Exhaust gas heat ) <sup>2</sup>	+/- 8% kW	326	327	256
-Coolant heat	+/- 8% kW	581	400	312
-Mixture heat	+/- 8% kW	149	87	34
Fuel input	+/- 5% kW	2.424	1.864	1.343
Consumption biogas (Hu 5,48)	+/- 5% Nm <sup>3</sup> / h	486,3	374,1	269,5
Electrical efficiency	%	39,5	38,5	35,7
Thermal efficiency	%	37,4	39,0	42,3
Total efficiency	%	77,0	77,5	78,0

**System parameters**

Flow temperature	max. °C		90
Return temperature	max. °C		70
Gas connection	DN / PN		On request
Heating water connection	DN / PN		"
Exhaust gas connection	DN / PN		"
Mixture cooling connection	DN / PN		"
Air requirement combustion + ventilation	Nm <sup>3</sup> / h		26.500
Noise level with housing	1m distance		70 dB(A)
Main dimensions (approx.)	L x W x H [m]	6,6 x 2,25 x 3,0	
Weight, dry (approx.)	kg		13.500
Gas composition		separate data sheet	



)<sup>1</sup> at 50 Hz, U=0,4 KV, pf = 1 )<sup>2</sup> at exhaust gas temperature 180 °C  
 NOx < 500 mg/Nm<sup>3</sup> / CO < 1000 mg/Nm<sup>3</sup>

Reference conditions: Combustion air / ambient temperature <27 °C; Altitude at site <300 m