



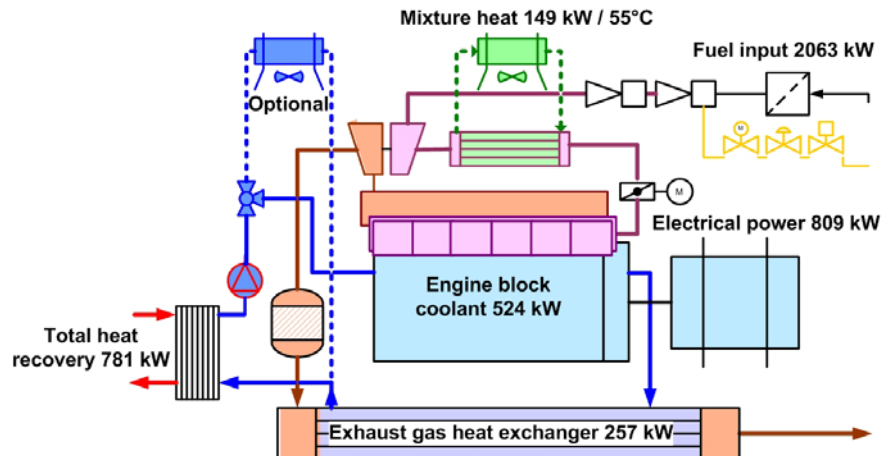
Specifications Biogas / Sewage gas CHP FMB-1000-BSM / KSM

Issue: 08_2009_001 data sheet

Engine specifications		
Manufacturer		Guascor
Type		SFGLD 480/55
Speed	min ⁻¹	1500
Displacement	Liter	47,91
Number of cylinders		16 / V
Intake	Leanburn engine turbocharged and external mixture cooling	
Generator		400V~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	809	607	405
Total heat recovery	+/- 8% kW	781	625	487
-Exhaust gas heat) ²	+/- 8% kW	257	208	158
-Coolant heat	+/- 8% kW	524	417	329
-Mixture heat	+/- 8% kW	149	87	34
Fuel input	+/- 5% kW	2.063	1.595	1.147
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	376,5	291,1	209,3
Electrical efficiency	%	39,2	38,0	35,3
Thermal efficiency	%	37,8	39,2	42,5
Total efficiency	%	77,1	77,2	77,8

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 ³ / h	15.165
Noise level with housing	1m distance	70 dB(A)
Main dimensions	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	



)¹ at 50 Hz, U=0,4 KV, pf =1)² at exhaust gas temperature 180 °C
 NOx < 500 mg/Nm³ / CO < 1000 mg/Nm³

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