



Specifications Biogas / Sewage gas CHP FMB-750-BSM / KSM

Issue: 08_2009_001 data sheet

Engine specifications

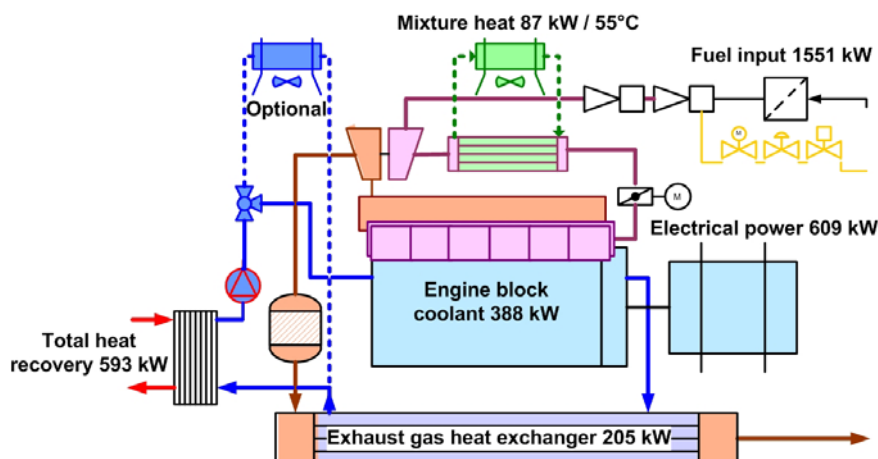
Manufacturer		Guascor
Type		SFGLD 360/55
Speed	min ⁻¹	1500
Displacement	Liter	35,9
Number of cylinders		12 / V
Intake	Leanburn engine turbocharged and external mixture cooling	
Generator		400V~ / 50Hz / synchronous

Performance data

		100 %	75 %	50 %
Electrical power) ¹	kW	609	457	305
Total heat recovery	+/- 8% kW	593	464	375
-Exhaust gas heat) ²	+/- 8% kW	205	154	114
-Coolant heat	+/- 8% kW	388	310	261
-Mixture heat	+/- 8% kW	87	51	16
Fuel input	+/- 5% kW	1.551	1.188	868
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	311,3	238,4	174,3
Electrical efficiency	%	39,3	38,4	35,1
Thermal efficiency	%	37,6	39,1	43,2
Total efficiency	%	76,8	77,5	78,2

System parameters

Flow temperature	max. °C		90
Return temperature	max. °C		70
Gas connection	DN / PN		
Heating water connection	DN / PN	2 x	65 / 16
Exhaust gas connection	DN / PN		300 / 6
Mixture cooling connection	DN / PN	2 x	65 / 16
Air requirement combustion + ventilation	Nm ³ / h		12.395
Noise level with housing	1m distance		70 dB(A)
Main dimensions	L x W x H [m]	5,1 x 2,25 x 3,0	
Weight, dry (approx.)	kg		11.500
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