



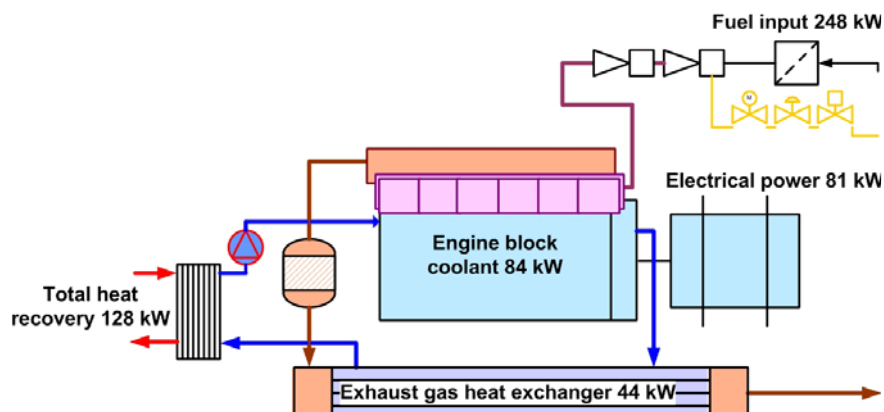
Specifications Biogas / Sewage gas CHP FMB-100-BSM / KSM

Issue: 02.2009 data sheet

Engine specifications		
Manufacturer		SCHMITT ENERTEC
Typ		SE-MB-1206-KNA
Speed	min ⁻¹	1500
Displacement	Liter	11,97
Number of cylinders		6 / in line
Intake	Naturally aspirated, lean burn gas engine	
Generator	400V~ / 50Hz / synchronous	

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	81	61	41
Total heat recovery	+/- 8% kW	128	94	66
-Exhaust gas heat) ²	+/- 8% kW	44	33	22
-Coolant heat	+/- 8% kW	84	62	44
-Mixture heat	+/- 8% kW	-	-	-
Fuel input	+/- 5% kW	248	187	134
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	45,3	34,1	24,5
Electrical efficiency	%	32,6	32,5	30,2
Thermal efficiency	%	51,5	50,5	49,3
Total efficiency	%	84,1	83,0	79,5

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	DN / PN	50 / 16
Heating water connection	DN / PN	2x 65 / 16
Exhaust gas connection	DN / PN	100 / 6
Air requirement combustion + ventilation	Nm ³ / h	4.314
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	3,6 x 1,05 x 2,05
Weight, dry (approx.)	kg	3.200
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 < 650 mg/Nm³

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