



**Specifications Biogas / Sewage gas CHP FMB-200-BSM / KSM**

Issue: 02.2009 data sheet

**Engine specifications**

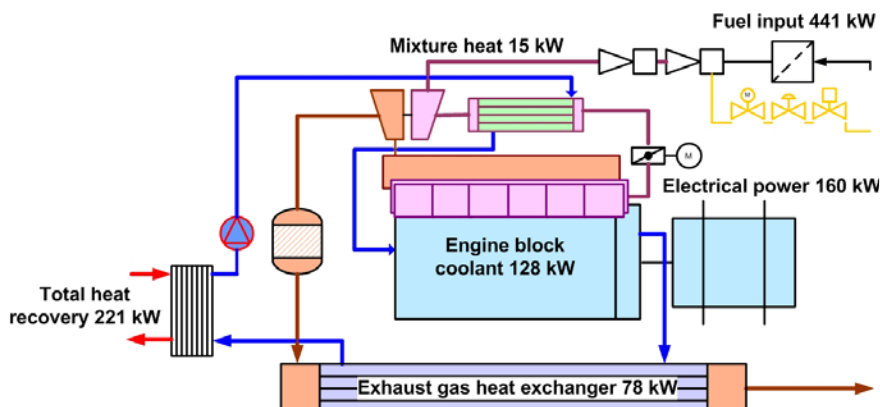
Manufacturer	SCHMITT ENERTEC		
Type	SE-MB-1206-KTA80		
Speed	min <sup>-1</sup>	1500	
Displacement	Liter	11,97	
Number of cylinders	6 / in line		
Intake	Leanburn engine turbocharged and internal mixture cooling		
Generator	400V~ / 50Hz / synchronous		

**Performance data**

		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	160	120	80
Total heat recovery	+/- 8% kW	221	187	130
-Exhaust gas heat ) <sup>2</sup>	+/- 8% kW	78	73	52
-Coolant heat	+/- 8% kW	128	102	70
-Mixture heat	+/- 8% kW	15	12	8
Fuel input	+/- 5% kW	441	344	239
Consumption biogas (Hu 5,48)	+/- 5% Nm <sup>3</sup> / h	80,4	62,7	43,6
Electrical efficiency	%	36,3	34,9	33,5
Thermal efficiency	%	50,0	54,3	54,6
Total efficiency	%	87,0	89,2	88,1

**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	150 / 6	
Air requirement combustion+ventilation	Nm <sup>3</sup> / h	5.723	
Noise level with housing	1m Distance	70 dB(A)	
Main dimensions	L x W x H [m]	3,6 x 1,25 x 2,45	
Weight, dry (approx.)	kg	3.500	
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 < 650 mg/Nm<sup>3</sup>

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