



# SCHMITT ENERTEC



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## Specifications Biogas / Sewage gas CHP FMB-230-BSM / KSM

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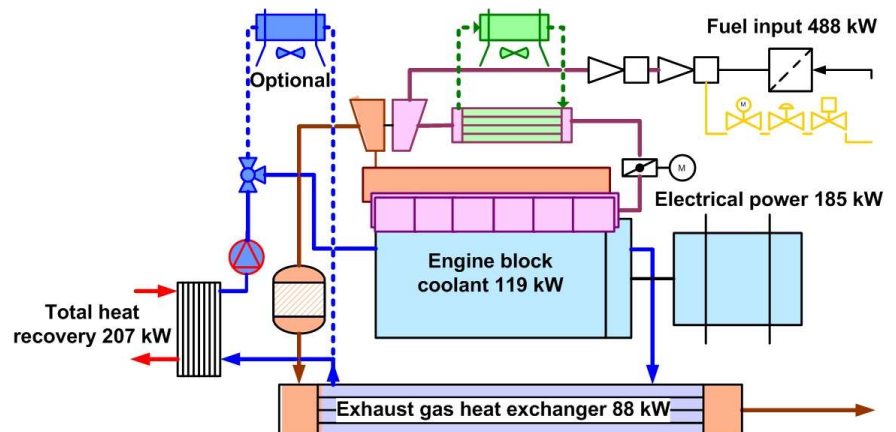
### Engine specifications

Manufacturer	SCHMITT ENERTEC		
Type	SE-MB-1206-KTA50		
Speed	min <sup>-1</sup>	1500	
Displacement	Liter	11,97	
Number of cylinders	6 / in line		
Intake	Leanburn engine turbocharged and external mixture cooling		
Generator	400V~ / 50Hz / synchronous		

Performance data		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	185	139	93
Total heat recovery	+/- 8% kW	207	169	123
-Exhaust gas heat ) <sup>2</sup>	+/- 8% kW	88	71	51
-Coolant heat	+/- 8% kW	119	99	72
-Mixture heat	+/- 8% kW	-	-	-
Fuel input	+/- 5% kW	488	380	268
Consumption biogas (Hu 5,48)	+/- 5% Nm <sup>3</sup> / h	88,7	69,1	48,7
Electrical efficiency	%	37,9	36,6	34,7
Thermal efficiency	%	42,6	44,6	45,9
Total efficiency	%	80,5	81,2	80,6

### System parameters

Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	DN / PN	50 / 16
Heating water connection	DN / PN	2x 50 / 16
Exhaust gas connection	DN / PN	150 / 6
Mixture cooling connection	DN / PN	2x 40 / 16
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