



Specifications Biogas / Sewage gas CHP FMB-375-BSM / KSM

Issue: 02.2009 data sheet

Engine specifications

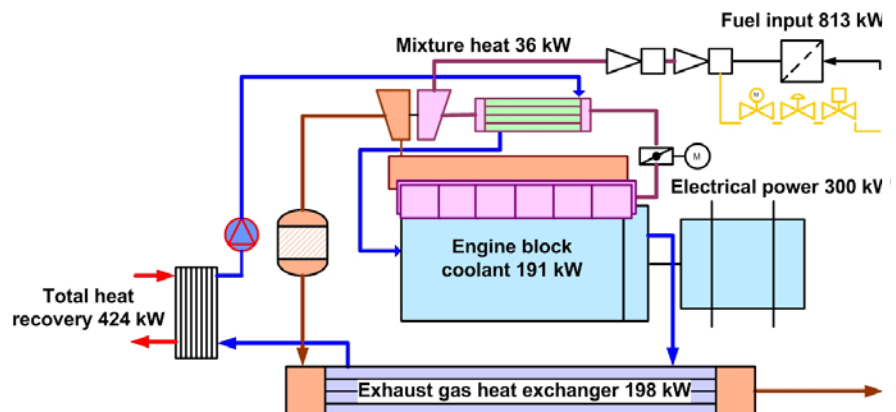
Manufacturer	SCHMITT ENERTEC		
Type	SE-MB-2312-KTA80		
Speed	min ⁻¹	1500	
Displacement	Liter	22,6	
Number of cylinders	12 / V		
Intake	Leanburn engine turbocharged and internal mixture cooling		
Generator	400V~ / 50Hz / synchronous		

Performance data

		100 %	75 %	50 %
Electrical power) ¹	kW	300	225	150
Total heat recovery	+/- 8% kW	403	335	236
-Exhaust gas heat) ²	+/- 8% kW	198	157	114
-Coolant heat	+/- 8% kW	191	154	108
-Mixture heat	+/- 8% kW	35	23	14
Fuel input	+/- 5% kW	813	632	437
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	148,3	115,3	79,7
Electrical efficiency	%	36,9	35,6	34,3
Thermal efficiency	%	49,6	50,5	51,5
Total efficiency	%	86,5	86,1	85,9

System parameters

Flow temperature	max. °C	90	
Return temperature	max. °C	70	
Gas connection	DN / PN	80 / 16	
Heating water connection	DN / PN	2 x	65 / 16
Exhaust gas connection	DN / PN	200 / 6	
Air requirement	Nm ³ / h	11.879	
combustion + ventilation			
Noise level with housing	1m distance	70 dB(A)	
Main dimensions	L x W x H [m]	4,0 x 1,45 x 2,45	
Weight, dry (approx.)	kg	5.400	
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